

JUNG

Catalogue



EN 28

MADE IN GERMANY SINCE 1912





Catalogue EN 28

DATE OF PRINTING: 01.08.2021

The latest Terms and Conditions of Sale and Supply can always be found on our website at:
[jung.de/terms](https://www.jung.de/terms)

JUNG ONLINE CATALOGUE

These and many other devices are available in the JUNG online catalogue. Operating instructions, tender texts, data sheets, product documentation and much more can be found with just one click:

[jung.de/online-catalogue](https://www.jung.de/online-catalogue)



Our terms of sale, delivery and payment apply exclusively. The images shown are not binding, in particular with regard to the colour, size and features of the products presented.

SYMBOLS IN THIS CATALOGUE

- P** Protection level IP 44 ensured
- L** Laser labelling possible with Graphic Tool
- P** Print labelling possible with Graphic Tool

Content

	Switch / Push-button inserts	12		AS range	340	
	Accessories	16		Covers and sockets	344	
	Lamps	19		Frames	380	
	Wall boxes	21				
	50 x 50 system	22				
	Modular jack sockets	32		A range	388	
	WLAN access point	35		Covers and sockets	392	
	Mounting adapter	38		A 550 frames	442	
	TV-FM sockets	40		A FLOW frames	444	
	Multimedia terminals	47		A CREATION frames	446	
	Sockets with USB / USB charger	58				
	Smart Radio DAB+	76		CD range	452	
	Smart Radio DAB+ Bluetooth	83		Covers and sockets	456	
	Loudspeaker module	88		CD 500 frames	493	
				CD PLUS frames	500	
	Smoke alarm system	89	Flush ranges	SL 500 range	502	
	Observers	92		Covers and sockets	504	
				Frames	511	
	Hospital installations	94		LS range	512	
	Oversize rocker	100		Covers and sockets	516	
				LS 990 frames	586	
				LS CUBE frames	590	
				LS DESIGN frames	592	
				FLAT DESIGN frames	595	
				LS PLUS frames	598	
	Hotel installation	104		Les Couleurs®	600	
	Visu Pro Hotel	129		LS ZERO frames	612	
	Floor pilot light	131		LS 1912	616	
	LED info signs	134				
	Plug & Light	138				
Door communication	Door communication	144	Surface ranges	WG 800	626	
	Indoor stations for Siedle In-Home bus	146		WG 600	642	
	Standard audio indoor station	146		AP 600	650	
	Audio indoor station	148				
	Video indoor station	150				
	Single components	152				
	Smart Control 5	159				
Radio systems	eNet SMART HOME	160	KNX	KNX system	658	
	eNet radio transmitters	164		F 50 push-button sensors	660	
	eNet radio detectors	177		F 40 push-button sensors	670	
	eNet Server	198		KNX RF	677	
	Smart Control 5	200		F 10 push-button sensors	680	
	Philips Hue	202		KNX Rotary sensor	686	
	Bluetooth Low Energy	204		KNX Presence detector	687	
EnOcean	206	KNX Automatic switch		688		
				KNX Controller	690	
Electronics	LB Management	212			KNX System components	693
	Inserts / dimmers	216			KNX Actuators	694
	Centre plates	230			KNX Weather station	697
	Universal timer Bluetooth	241				
	Rotary dimmer	266				
	TRONIC transformer	278				
	JUNG Bus	281				
	Temperature Management	298	Appendix	Smart Panels	698	
	Room thermostat	300		Smart Controls	699	
	Floor thermostat	310		Smart Visu Server	699	
External temperature sensor	312	Visu Pro Server		700		
Thermal valve drive	312					
Fan coil controller	314					
Humidistat	318					
British range	320			Dimensions	702	
Inserts for wall boxes	324			Index	710	
Frames	336					

Made for global business

JUNG quality is highly regarded all over the world. To meet the needs of its international costumers, the family-run company has established a global network: JUNG has subsidiaries in 20 countries and boasts a total of more than 70 representative agents

on five continents. This way, the company tailors its expertise to the various country-specific requirements and standards. For the users locally, this means a high level of security when dealing with top-grade electrical JUNG products.



JUNG

Administration, training centre
and production in Schalksmühle

Manufactured with precision



Logistics Centre and production in Lünen



JUNG products are manufactured at the two company sites in Schalksmühle and Lünen. For this JUNG received the certificate "Made in Germany" from TÜV Nord. With deep roots in the region and a constant employer for many decades, today customers throughout the world rely on the continuing high quality. At the same time, JUNG is aware of its high responsibility for sustainable and

energyefficient production. JUNG has proven its specialist know-how in metalworking for decades. The company provides switch designs in genuine metal. Matt finished or lacquered aluminium, stainless steel blasted with glass beads, brushed brass, chrome-plated metal or with almost 24 carat gold plating – JUNG produces precision switches down to the last detail every day.



Graphite black. Snow white.
Pure matt.

SCHUKO® SOCKET

LS 990 in matt snow white

ROTARY DIMMER

LS 990 in matt snow white

F 40 SENSOR, 4-GANG

A FLOW in matt graphite black

F 50 SENSOR, 4-GANG

A 550 in matt graphite black

Intensive. Extensive. Elementary. With the matt graphite black and snow white finishes, JUNG creates elegant surfaces that aesthetically enhance the LS, A 550 and A FLOW ranges.



SCHUKO® socket with
USB A+C in A FLOW in white

Flexible all-rounder

SCHUKO® SOCKET



with USB-A in LS 990 in white

SCHUKO® SOCKET



with USB-C in LS 990 in white

FRENCH / BELGIAN SYSTEM SOCKET



with USB-A+C in LS 990 in white

HIGHEST SAFETY STANDARDS



JUNG SCHUKO® sockets with USB port are tested and certified by VDE.

The JUNG SCHUKO® sockets with USB ports, for example, quickly recharge the smartphone, leaving the socket free. The versions with JUNG Quick Charge® have either a USB-A or USB-C

port and are impressive with a charging capacity of up to 18 watts. The sockets with two USB ports (type A and type C) provide particular flexibility.

JUNG AR-Studio app



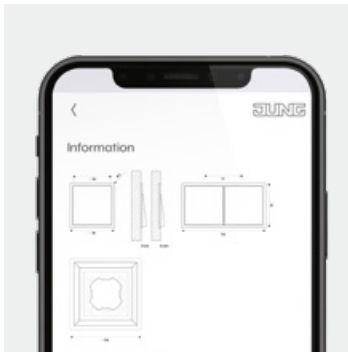
The digital sample case for travelling: Augmented reality enables digital support for consultancy on location. The AR-Studio app presents the JUNG portfolio with over 2,000 products in the live environment with the customer at home.



A totally new way to experience JUNG switches and solutions digitally: the JUNG AR-Studio app. Surfaces, materials and colours can be experienced in photographic quality. The app shows all the JUNG ranges, different colours and materials, frame dimensions and much more. All of this free of charge, mobile and independent of network coverage.

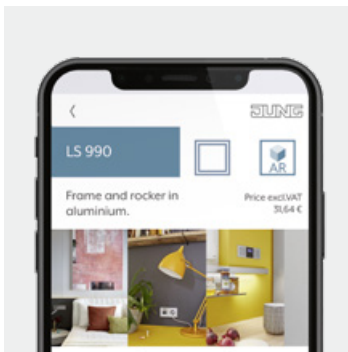


Now download
the app!



Frame dimensions

The app for augmented planning offers specialist planners information for carrying out the electrical installation. Precise and reliable. Does the desired switch from the JUNG LS PLUS range fit in? Would a multiple frame work at the door as well? JUNG AR-Studio shows you important information such as frame dimensions at a glance.



Background knowledge

Alongside the true-to-life live views, JUNG AR-Studio provides a range of background information on the JUNG portfolio. The special features of the LS 990, the distinctive design of A CREATION, the large variety of colours in the Les Couleurs® Le Corbusier – the app comprehensively presents the multi-faceted world of the JUNG ranges.



Versatile application possibilities

JUNG AR-Studio presents numerous products and shows the large range of functionality of KNX control elements, rotary dimmers and many more: How do other JUNG products look in the customer's home? Can a KNX push-button be used as well? Does a compact room controller also fit and which operating possibilities does it provide? JUNG AR-Studio knows the JUNG portfolio.

[JUNG.DE/AR-STUDIO](https://www.jung.de/ar-studio)

Customisation

LASER ENGRAVING



The laser engraving process enables contours of symbols, texts and ornaments due to the precise removal of the surface.

COLOUR PRINTING



The abrasion-resistant colour printing provides numerous possibilities for individual design.

LABELLING



Integrated inscription fields can be designated via labelling process. This optimises the assignment of functions.

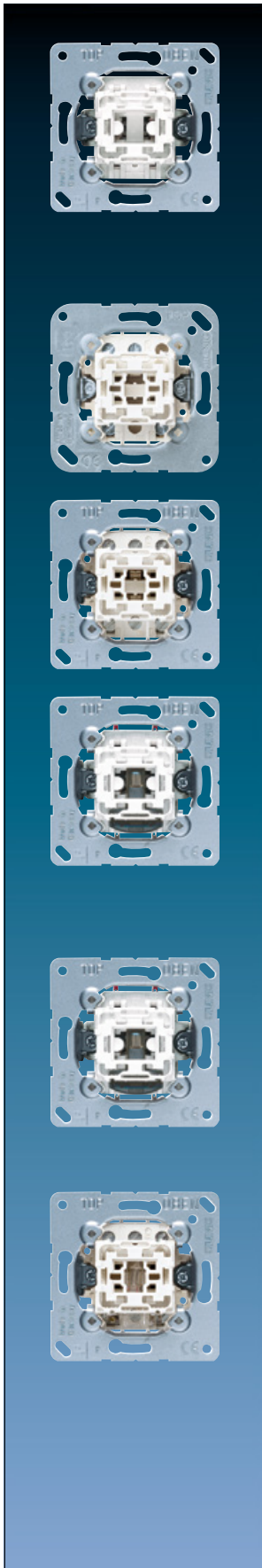
JUNG products gain individuality with the Graphic Tool at www.jung.de/gt. Depending on product, material and personal requirements, laser engraving, colour printing or

labelling are used. With texts, symbols or motifs, both an individual design and an optimisation of the function allocation can be achieved.



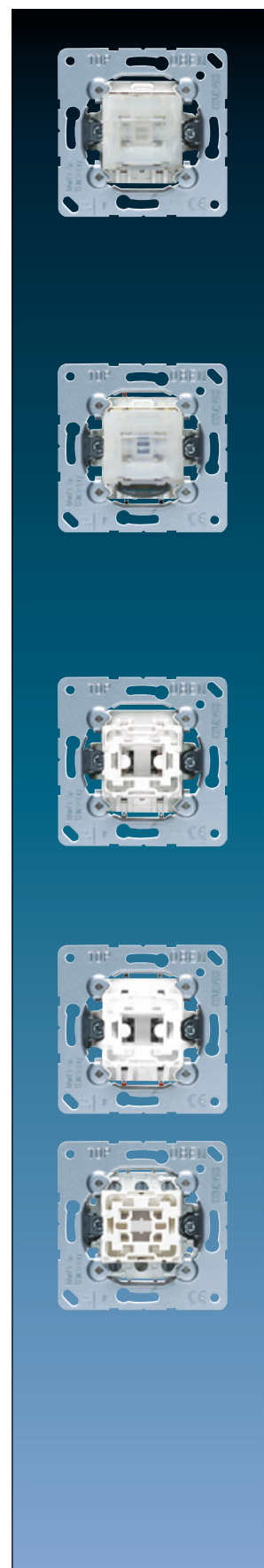
Triple combination of a
hotel installation in LS 990 in dark

Inserts

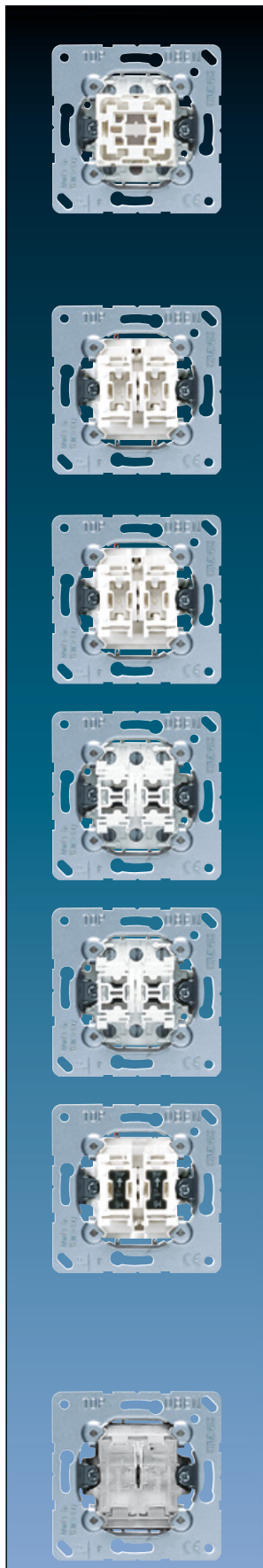


	Ref.-no.
1-gang switch insert 10 AX / 250 V ~	
screwless terminals for wires up to 2.5 mm ²	
without claws: ref.-no. with additional "E", e.g.: 506 EU	
1-pole, 1-way	501 U
2-pole, 1-way	502 U
1-pole, 2-way	506 U
intermediate	507 U
Switch can be illuminated in OFF-position with lamp ref.-no. 90/95 (230 V), 96-.. (low voltage), or LED lamp ref.-no. 90-LED.. (230 V) or 961248 LED.. (low voltage).	
1-gang switch insert 20 AX / 250 V ~	
screw terminals for wires up to 4 mm ²	
1-pole, 1-way	501-20 U
1-pole, 2-way	506-20 U
Switch can be illuminated in OFF-position with lamp ref.-no. 98-220 (230 V).	
intermediate	507-20 U
1-gang switch insert 16 AX / 400 V ~	
screw terminals for wires up to 4 mm ²	
without claws: ref.-no. with additional "E", e.g.: 503 EU	
3-pole, 1-way	503 U
Switch can be illuminated in OFF-position with lamp ref.-no. 98 or 98-220 (230 V).	
1-gang switch insert 10 AX / 250 V ~ with indicator light	
screwless terminals for wires up to 2.5 mm ²	
Neutral conductor required	
with glow lamp ref.-no. 90	
without claws: ref.-no. with additional "E", e.g.: 506 KOEU	
2-pole, 1-way	502 KOU
1-pole, 2-way	506 KOU
Glow lamp can be replaced with LED lamp ref.-no. 90-LED.. (230 V) or 961248 LED.. (low voltage).	
1-gang switch insert 20 AX / 250 V ~ with indicator light	
screw terminals for wires up to 4 mm ²	
Neutral conductor required	
with glow lamp ref.-no. 98-220	
1-pole, 1-way	501-20 KOU
2-pole, 1-way	502-20 KOU
1-pole, 2-way	506-20 KOU
1-gang switch insert 16 AX / 400 V ~ with indicator light	
screw terminals for wires up to 4 mm ²	
with glow lamp ref.-no. 98	
3-pole, 1-way	503 KOU

	Ref.-no.
1-gang push switch insert 10 A / 250 V ~	
screwless terminals for wires up to 2.5 mm ²	
Rockers of push switches jump back to original position.	
Can be converted into pull cord switch by means of pull cord insert ref.-no. 34 or 34 KO5.	
without claws: ref.-no. with additional "E", e.g.: 506 ETU	
2-pole, 1-way	502 TU
1-pole, 2-way	506 TU
illumination not possible in 2-way and intermediate circuits	
intermediate	507 TU
Switch can be illuminated in OFF-position with lamp ref.-no. 90/95 (230 V), 96-.. (low voltage), or LED lamp ref.-no. 90-LED.. (230 V) or 961248 LED.. (low voltage).	
1-gang push switch insert 10 A / 250 V ~ with indicator light	
screwless terminals for wires up to 2.5 mm ²	
Neutral conductor required	
with glow lamp ref.-no. 90	
Rockers of push switches jump back to original position.	
Can be converted into pull cord switch by means of pull cord insert ref.-no. 34 or 34 KO5.	
without claws: ref.-no. with additional "E", e.g.: 506 KOETU	
2-pole, 1-way	502 KOTU
1-pole, 2-way	506 KOTU
Glow lamp can be replaced with LED lamp ref.-no. 90-LED.. (230 V) or 961248 LED.. (low voltage).	
1-gang push-button insert 10 A / 250 V ~	
screwless terminals for wires up to 2.5 mm ²	
Can be converted into pull cord push-button by means of pull cord insert ref.-no. 34 or 34 KO5.	
without claws: ref.-no. with additional "E", e.g.: 531 EU	
1-pole, 1-way (NO contact)	531 U
1-pole, 2-way with terminal for N conductor	533 U
1-pole, 1-way (NO contact) with separate contacts for indicator light	534 U
Illumination possible with lamp ref.-no. 90/95 (230 V), 96-.. (low voltage), or LED lamp ref.-no. 90-LED.. (230 V) or 961248 LED.. (low voltage).	
1-gang push-button insert 10 A / 250 V ~	
screwless terminals for wires up to 2.5 mm ²	
Can be converted into pull cord push-button by means of pull cord insert ref.-no. 34 or 34 KO5.	
without claws: ref.-no. with additional "E", e.g.: 532 EU	
2-pole, 1-way (NO contact)	532 U
1-gang push-button insert 10 A / 250 V ~	
screw terminals for wires up to 2.5 mm ²	
Can be converted into pull cord push-button by means of pull cord insert ref.-no. 34 or 34 KO5.	
without claws: ref.-no. with additional "E", e.g.: 533-2 EU	
2-pole, 2-way	533-2 U

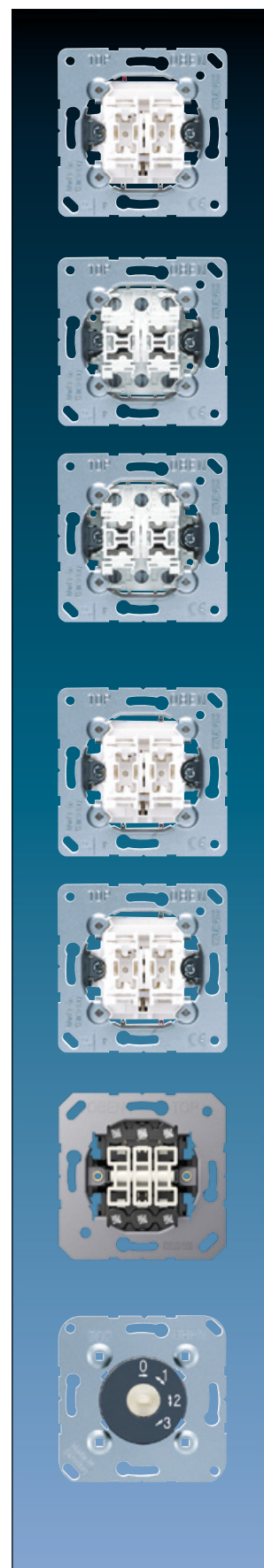


Inserts

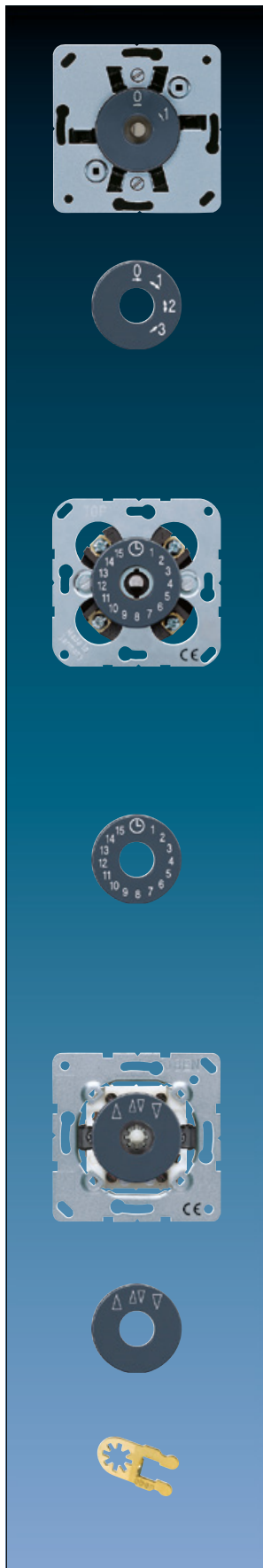


	Ref.-no.
<p>1-gang multi switch insert 10 A / 250 V ~ screw terminals for wires up to 2.5 mm² without claws: ref.-no. with additional "E", e.g.: 531-41 EU 1-pole, 2-way NO contacts, rocker in neutral position</p>	531-41 U
<p>When the upper or lower half of the rocker is actuated, two contacts are closed simultaneously. Especially designed as controller for wirings with relays, e.g. in combination with relay station ref.-no. RS 8 REGHE. No electrical/mechanical interlocking. Only recommended for CD and LS ranges (except metal versions).</p>	
<p>2-gang switch insert 10 AX / 250 V ~ screwless terminals for wires up to 2.5 mm² without claws: ref.-no. with additional "E", e.g.: 505 EU 2 x 1-pole, 1-way</p>	505 U
<p>2 x 1-pole, 1-way with 2 glow lamps ref.-no. 94 Switch is illuminated in OFF-position. The lamps can be exchanged without disconnecting mains.</p>	505 U 5
<p>2-gang switch insert 20 AX / 250 V ~ screw terminals for wires up to 4 mm² 2 x 1-pole, 1-way</p>	505-20 U
<p>2-gang switch insert 10 AX / 250 V ~ screw terminals for wires up to 2.5 mm² without claws: ref.-no. with additional "E", e.g.: 509 EU 2 x 1-pole, 2-way</p>	509 U
<p>2-gang switch insert 20 AX / 250 V ~ screw terminals for wires up to 4 mm² 2 x 1-pole, 2-way</p>	509-20 U
<p>2-gang switch insert 10 AX / 250 V ~ with indicator light screwless terminals for wires up to 2.5 mm² Neutral conductor required 2 x 1-pole, 1-way with 2 glow lamps ref.-no. 94 mechanical interlocking</p>	505 KOU 5
<p>The lamps can be exchanged without disconnecting mains. Coloured lamps can also be used, e.g.: green ref.-no.: 94 GN or 94-LED GN red ref.-no.: 94 RT or 94-LED RT</p>	505 KOVU 5
<p>2-gang push switch insert 10 A / 250 V ~ screwless terminals for wires up to 2.5 mm² Rockers of push switches jump back to original position. without claws: ref.-no. with additional "E", e.g.: 505 ETU 2 x 1-pole, 1-way</p>	505 TU
<p>2 x 1-pole, 2-way</p>	509 TU

	Ref.-no.
2-gang push-button insert 10 A / 250 V ~	
screwless terminals for wires up to 2.5 mm ²	
without claws: ref.-no. with additional "E", e.g.: 535 EU	
2 x 1-pole, 1-way (NO contact)	535 U
2 x 1-pole, 1-way (NO contact) with 2 glow lamps ref.-no. 94	535 U 5
Switch is illuminated in OFF-position. The lamps can be exchanged without disconnecting mains.	
2-gang push-button insert 10 A / 250 V ~	
screw terminals for wires up to 2.5 mm ²	
without claws: ref.-no. with additional "E", e.g.: 539 EU	
2 x 1-pole, 2-way	539 U
2-gang multi switch insert 10 A / 250 V ~	
screw terminals for wires up to 2.5 mm ²	
2 x 1-pole, 2-way push-button with 4 NO contacts, rocker in neutral position	532-4 U
Especially designed as controller for wirings with relays, e.g. in combination with relay station ref.-no. RS 8 REGHE. No electrical/mechanical interlocking. Only recommended for CD and LS ranges (except metal versions).	
2-gang blind switch insert 10 AX / 250 V ~	
screwless terminals for wires up to 2.5 mm ²	
mechanical interlocking to avoid switching of both rockers at the same time	
1-pole (1 motor)	509 VU
2-gang blind push-button insert 10 A / 250 V ~	
screwless terminals for wires up to 2.5 mm ²	
mechanical interlocking to avoid switching of both rockers at the same time	
1-pole (1 motor)	539 VU
3-gang switch insert 10 AX / 250 V ~	
screw terminals	
screw fixing only, without claws	
Only for A and LS ranges.	
When mounting/removing the 3-gang rocker, the middle part has to be clipped on last or removed first.	
1-pole, 1-way	5301 EU
1-pole, 2-way	5306 EU
Installation into flush box min. 63 mm (depth)	
Rotary switch insert	
screw terminals for wires up to 4 mm ²	
screw fixing only, without claws	
not suitable for installation in surface caps	
Scale disc anthracite	
3-level switch with OFF-position 16 AX 250 V ~	1101-4
2-pole 20 AX 250 V ~	1101-20
Installation note: No plaster compensation possible. Insert must be mounted flush with the wall. Supporting frame must be on top of wallpaper.	

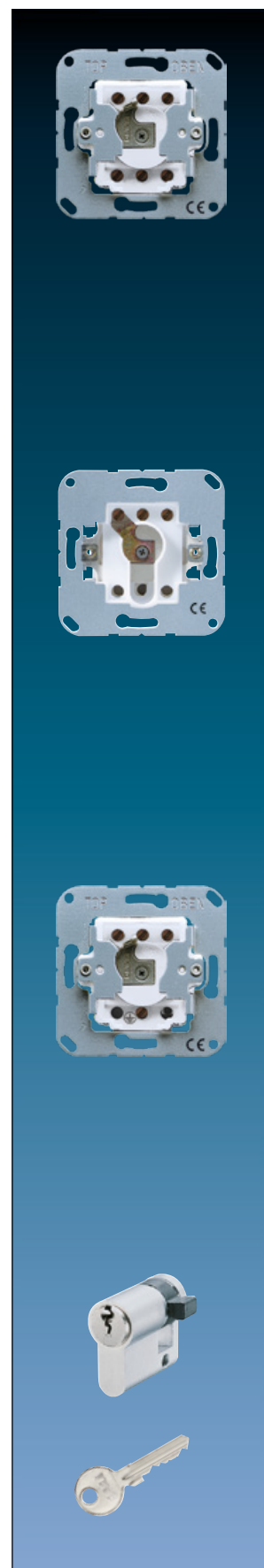


Inserts Accessories

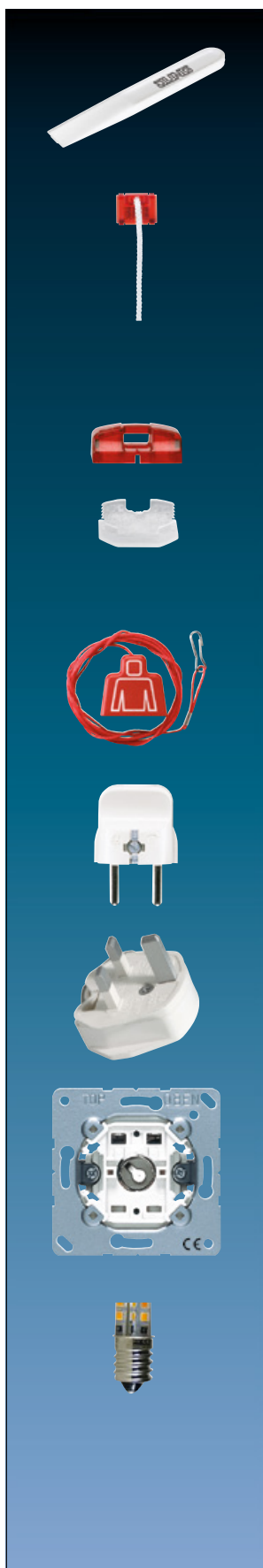


		Ref.-no.
Rotary switch insert		
screw terminals for wires up to 6 mm ² screw fixing only, without claws		
Scale disc anthracite		
2-pole		1101-32
including wall box Ø 60 mm, depth 63 mm		
Scale disc (Spare part)		
for ref.-no. 1101-4		
anthracite		SKS 1101-4
white		SKS 1101-4 WW
for ref.-no. 1101-20		
anthracite		SKS 1101-20
white		SKS 1101-20 WW
Timer switch insert 16 AX / 250 V ~		
screw terminals for wires up to 4 mm ² screw fixing only, without claws accuracy ± 10 %		
Scale disc anthracite		
2-pole, 1-way	max. 15 minutes	11015
	max. 30 minutes	11030
1-pole, 2-way	max. 30 minutes	11030-20
2-pole, 1-way	max. 60 minutes	11060
	max. 120 minutes	11120
1-pole, 2-way	max. 120 minutes	11120-20
Scale disc (Spare part)		
for ref.-no. 11015		
anthracite		SKS 11015
white		SKS 11015 WW
for ref.-no. 11120-20		
anthracite		SKS 11120-20
white		SKS 11120-20 WW
Rotary blind switch insert 10 A / 250 V ~		
screw terminals for wires up to 2.5 mm ² Can be converted into rotary push-button by means of locking piece (included).		
Scale disc anthracite		
1-pole (1 motor)		1234.10
2-pole (2 motors) *		1234.20
* Can also be used as pole changer (see wiring diagram in data sheet). A pre-travel prevents a quick change of direction.		
Scale disc (Spare part)		
for ref.-no. 1234.10, 1234.20		
anthracite		SKS 1234.10
white		SKS 1234.10 WW
Locking piece (Spare part)		
for ref.-no.: 1234.10, 1234.20, 834.10 W, 834.20 W		
		34.10

	Ref.-no.
Key switch insert with protection against dismantling	
screw terminals for wires up to 2.5 mm ²	
screw fixing only, without claws	
for locking cylinder with total length of approx. 40 mm, e.g. ref.-no.: 28, 28 G1	
10 AX 250 V ~	
Blind switch, 2-pole (2 motors) *	104.28
10 A 250 V ~	
Blind push-button, 1-pole (1 motor) *	134.18
Blind push-button, 2-pole (2 motors) *	134.28
Push-button, 1-pole, 2-way	133.18
Push-button 1-pole, 1 NC contact – 1 NO contact	138.18
16 AX 250 V ~	
Switch, 2-pole, 2-way	106.28
* A pre-travel prevents a quick change of direction.	
Centre plate for key switch can only be dismantled when the lock is in unlocked position.	
Key switch insert without protection against dismantling	
screw terminals for wires up to 2.5 mm ²	
screw fixing only, without claws	
for locking cylinder with total length of approx. 40 mm, e.g. ref.-no.: 28, 28 G1	
not suitable for installation in surface caps	
Installation depth: min. 55 mm	
Cover is flush with the cylinder	
10 AX 250 V ~	
Blind switch, 1-pole (1 motor) *	104.15
10 A 250 V ~	
Blind push-button, 1-pole (1 motor) *	134.15
Push-button, 1-pole, 2-way	133.15
16 AX 250 V ~	
Switch, 1-pole, 2-way	106.15
* A pre-travel prevents a quick change of direction.	
Key switch insert with protection against dismantling	
screw terminals for wires up to 2.5 mm ²	
screw fixing only, without claws	
for locking cylinder with total length of approx. 40 mm, e.g. ref.-no.: 28, 28 G1	
When using locking cylinder from other manufacturer, please consider, that the cylinder has key access on only one side. (Otherwise water can get through the cylinder into the switch housing. IP 44 is thus not guaranteed.)	
10 AX 250 V ~	
Blind switch, 1-pole (1 motor) *	IP CD 104.18 WU
Blind push-button, 1-pole (1 motor) *	IP CD 134.18 WU
Push-button, 1-pole, 2-way	IP CD 133.18 WU
16 AX 250 V ~	
Switch, 1-pole, 2-way	IP CD 106.18 WU
* A pre-travel prevents a quick change of direction.	
Centre plate for key switch can only be dismantled when the lock is in unlocked position.	
Locking cylinder for key switches	
suitable for IP 44	
with 3 keys	
different locks	28
equal locks	28 G1
Key	
for locking cylinder 28 G1	
for key switches	
(Spare part)	
1 piece	28 G1 SL



Accessories



	Ref.-no.
<p>Button lever for the simple and gentle deinstallation of rockers and covers</p>	W-KEIL
<p>Pull cord insert for rockers with big lens (.. KO)</p> <p>red</p> <p>with 50 mm pull cord The pull cord insert has to be plugged into a 1-gang cover with lens to extend switches or push-buttons with a cord. Suitable push switches: 506 TU, 507 TU, 502 TU, 506 KOTU, 502 KOTU Suitable push-buttons: 531 U – 534 U, 631 A – 634 A, 331 A-24</p>	34
<p>Pull cord insert for rockers with lens (.. KO5)</p> <p>red</p> <p>The pull cord insert has to be plugged into a 1-gang cover with lens to extend switches or push-buttons with a cord. Suitable push switches: 506 TU, 507 TU, 502 TU, 506 KOTU, 502 KOTU Suitable push-buttons: 531 U – 534 U</p>	34 KO5
<p>Pull cord for pull cord inserts ref.-no: 34 and 34 KO5 length: approx. 2000 mm with spring hook red</p>	ZS-34 KO5S
<p>SCHUKO® plug, 16 A / 250 V ~ 2-pole with earth contact ivory Top cable entry</p>	16 S
<p>Plug for British Standard sockets 2-pole with earth contact screw terminals for wires up to 4 mm² acc. to BS 1363-1 ivory</p>	SA 13
<p>Pilot light insert screwless terminals for wires up to 2.5 mm² without claws: ref.-no. with additional "E", e.g.: 938-10 EU max. 5 W, 230 V</p>	
thread E10	938-10 U
thread E14	938-14 U
<p>LED lamp approx. 36 mm long for pilot lights ref.-no.: 938-14 U, 837-14 W, 637-14 W, 637-14 A, 637-14 A WW E14, 230 V ~, 0.4 W</p>	
white	E 14 LED W
green	E 14 LED GN
red	E 14 LED RT
average life approx. 30 000 h	

Ref.-no.

Plug-in glow lamp

for switches ref.-no.: 506 U, 507 U, 502 U, 806 W, 807 W, 802 W, 806 NAW, 606 W, 607 W, 602 W, 606 NAW
 for switches with indicator light ref.-no.: 506 KOU, 502 KOU, 806 KOW, 802 KOW, 606 KOW, 602 KOW
 for push switches ref.-no.: 506 TU, 507 TU, 502 TU
 for push switches with indicator light ref.-no.: 506 KOTU, 502 KOTU
 for push-buttons ref.-no.: 531 U, 533 U, 534 U, 831 W, 833 W, 834 W, 631 W, 633 W, 634 W

230 V ~, 1.1 mA	white	90
230 V ~, 0.5 mA	white	95

average life approx. 40 000 h

Plug-in glow lamp

for 1-gang switch insert ref.-no.: 503 U, 603 W, 803 W
 for 1-gang switch insert with indicator light
 ref.-no.: 501-20 KOU, 502-20 KOU, 506-20 KOU, 503 KOU, 803 KOW

400 V ~, 0.5 mA	white	98
230 V ~, 1.1 mA	white	98-220

average life approx. 40 000 h

Plug-in glow lamp

for 2-gang switch insert ref.-no.: 505 U 5
 for 2-gang switch insert with indicator light ref.-no.: 505 KOU 5
 for 2-gang push-button insert ref.-no.: 535 U 5

230 V ~, 0.8 mA	white	94
	green	94 GN
	red	94 RT

average life approx. 40 000 h

LED lamp

for 2-gang switch insert ref.-no.: 505 U 5
 for 2-gang switch insert with indicator light ref.-no.: 505 KOU 5
 for 2-gang push-button insert ref.-no.: 535 U 5

blue 110 – 250 V ~, 0.3 mA	94-LED BL
green 110 – 250 V ~, 0.3 mA	94-LED GN
red 110 – 250 V ~, 0.3 mA	94-LED RT
white 110 – 250 V ~, 0.3 mA	94-LED W
white 12 – 24 V ~, 0.3 mA	941224 LED W

average life approx. 100 000 h

Plug-in glow lamp

for 2-gang switch ref.-no.: 605 W, 805 W, 805 NAW, 835 W, 835 NAW, 605 A, 605 A WW

230 V ~, 0.8 mA	white	99
-----------------	-------	-----------

average life approx. 40 000 h

Plug-in incandescent lamp

for switches ref.-no.: 506 U, 507 U, 502 U, 806 W, 807 W, 802 W, 806 NAW, 606 W, 607 W, 602 W, 606 NAW
 for switches with indicator light ref.-no.: 506 KOU, 502 KOU, 806 KOW, 802 KOW, 606 KOW, 602 KOW
 for push switches ref.-no.: 506 TU, 507 TU, 502 TU
 for push switches with indicator light ref.-no.: 506 KOTU, 502 KOTU
 for push-buttons ref.-no.: 531 U, 533 U, 534 U, 831 W, 833 W, 834 W, 631 W, 633 W, 634 W

average life approx. 50 000 h

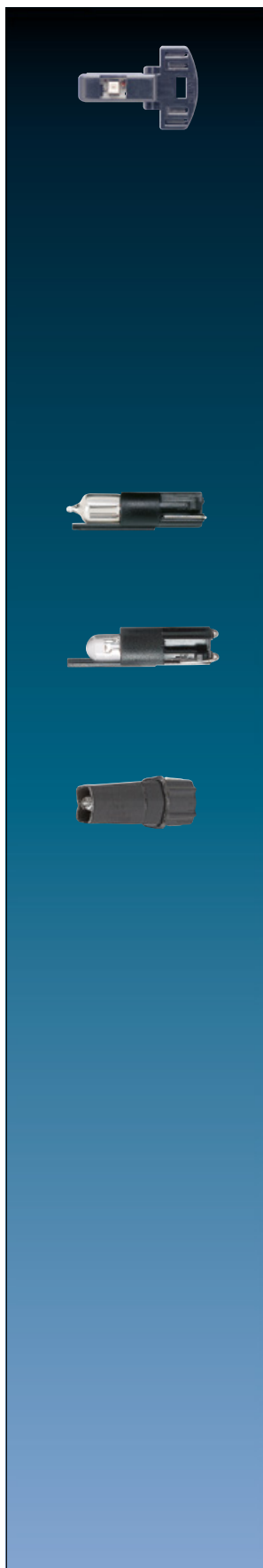
12 V ≈, 40 mA	96-12
24 V ≈, 25 mA	96-24

average life approx. 20 000 h

36 V ≈, 20 mA	96-36
48 V ≈, 25 mA	96-48



Lamps



Ref.-no.

LED lamp

for switches ref.-no.: 506 U, 507 U, 502 U, 806 W, 807 W, 802 W, 806 NAW, 606 W, 607 W, 602 W, 606 NAW
 for switches with indicator light ref.-no.: 506 KOU, 502 KOU, 806 KOW, 802 KOW, 606 KOW, 602 KOW
 for push switches ref.-no.: 506 TU, 507 TU, 502 TU
 for push switches with indicator light ref.-no.: 506 KOTU, 502 KOTU
 for push-buttons ref.-no.: 531 U, 533 U, 534 U, 831 W, 833 W, 834 W, 631 W, 633 W, 634 W
 for AC and DC, independent of polarity

blue 12 – 48 V ~, 4 mA	961248 LED BL
green 12 – 48 V ~, 4 mA	961248 LED GN
red 12 – 48 V ~, 4 mA	961248 LED RT
white 12 – 48 V ~, 4 mA	961248 LED W
blue 230 V ~, 1.1 mA	90-LED BL
green 230 V ~, 1.1 mA	90-LED GN
red 230 V ~, 1.1 mA	90-LED RT
white 230 V ~, 1.1 mA	90-LED W

average life approx. 100 000 h

Plug-in glow lamp

for SCHUKO® socket with pilot light ref.-no. ..520 KO.., 820 KO..

230 V ~, 1.1 mA	white	93
-----------------	-------	-----------

average life approx. 40 000 h

LED lamp

for SCHUKO® socket with pilot light ref.-no. ..520 KO.., 820 KO..

red 230 V ~, 0.5 mA	93-LED RT
green 230 V ~, 0.5 mA	93-LED GN

average life approx. 100 000 h

LED lamp

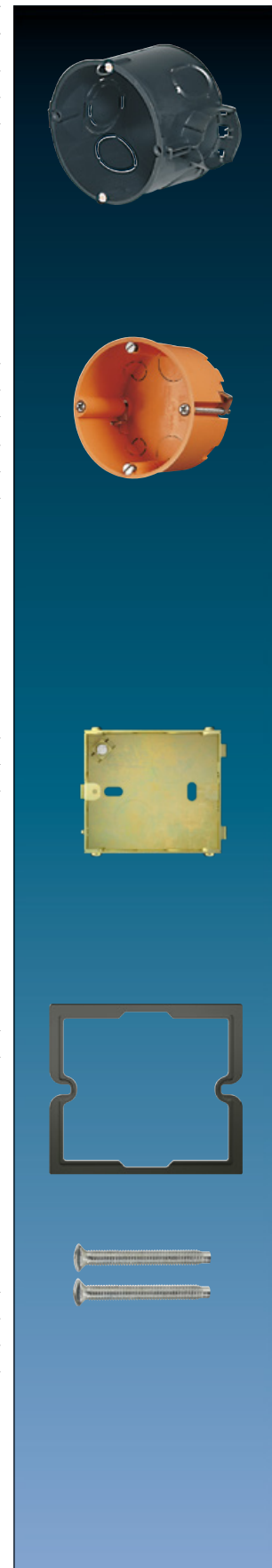
(Spare part)

for SCHUKO® socket with pilot light ref.-no. ..1520 ..KO..

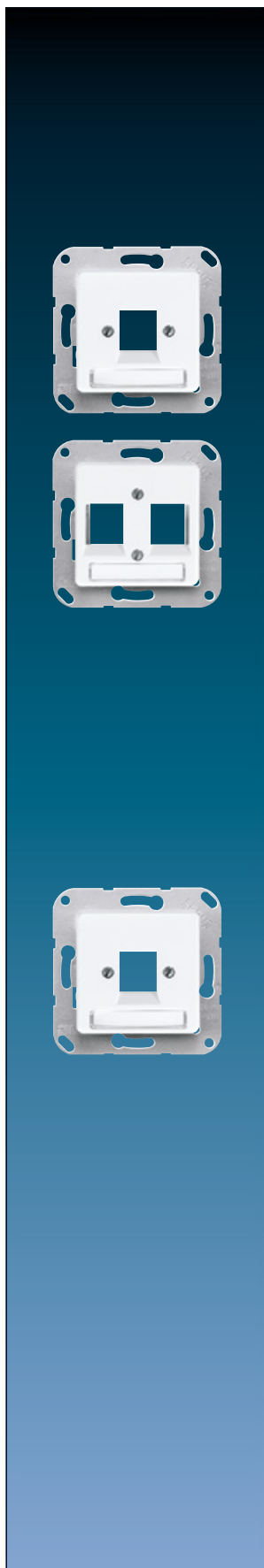
green 230 V ~, 0.3 mA	193-LED GN
-----------------------	-------------------

average life approx. 100 000 h

	Ref.-no.
Wall box	
Depth: 46 mm	1056-04
Depth: 63 mm	1556-04
fire resistant up to 650 °C protection level IP 2X device screw distance 60 mm halogen-free for screw and claw fixing break-out openings for for wires and tubes Ø 20 mm / 25 mm with 2 installation screws 15 mm	
Wall box for hollow walls, 1-gang	
Depth: 49 mm	9063-02
Depth: 62 mm	9064-02
halogen-free, colour: white	
Depth: 47 mm	9063-78
Depth: 61 mm	9064-78
cutting hole Ø 68 mm	
fire resistant up to 850 °C standardised combination distance 71 mm for panel thickness 7 – 40 mm device screw distance 60 mm knockout plugs for for wires and tubes Ø 20/25 mm with 2 installation screws	
Wall box	
depth: 40 mm	BS 6042 M-40
depth: 50 mm	BS 6042 M-50
1-gang, rectangular device screw distance 60.3 mm with earth terminal device screws (M 3 x 30 mm) included Wall boxes can be connected for multiple combinations; center-to-center distance 71 mm. Wall boxes that are installed too deeply or out of square can be readjusted with the plaster compensation frame PCF 6042 to create ideal installation conditions for any flush-mounted inserts.	
Plaster compensation frame	
black	PCF 6042
Fire resistant up to 650 °C The PCF 6042 is a stackable compensation frame made of elastic plastic that allows wall boxes that are installed too deeply or out of square to be readjusted, creating the ideal installation conditions for any flush-mounted inserts. Flexibly stackable in 1 mm stages Installation video available: www.jung.de/pcf	
Screw set	
for wall box ref.-no. BS 6042 M-40, BS 6042 M-50	
M 3 x 30 mm	SCREW-30
M 3 x 50 mm	SCREW-50
M 3 x 70 mm	SCREW-70



50 x 50 mm system



Ref.-no.

50 x 50 system (screw fixing)

For design ranges:

AS / A: with intermediate frame no.: A 590 Z..

CD: with intermediate frame no.: ..590 Z.. or hinged lid no.: CD 590 KL.. or CD 590 BFKL..

SL: with hinged lid no.: SL 590 KL..

LS: with intermediate frame no.: LS 961 Z.. or hinged lid no.: LS 990 KL.., LS 990 BFKL .. or .. 2990 KL..

Centre plate (screw fixing) with inscription field 6 x 37 mm

with supporting frame, screw fixing only

for universal modular jack socket ref.-no.: UMA-CAT6A

for 1 socket

Thermoplastic (breakproof) high-gloss

white

169-1 NWE WW

for 2 sockets

Thermoplastic (breakproof) high-gloss

white

169-2 NWE WW

for modular jack sockets

RADIALL:

modular jack unshielded 6P6C, RJ 12, Cat. 4 (ref.-no. R280MOD804)

modular jack unshielded 8P8C, RJ 45, Cat. 4 (ref.-no. R280MOD805)

modular jack unshielded 8P8C, RJ 45, Cat. 5e (ref.-no. R280MOD807)

Panduit:

keystone jack KJ 88..

keystone jack KJ 588..

Assmann:

module DN-93612 Cat. 6A, shielded, Keystone

module DN-93614

SCHRACK

HSPMRJ6G1A, HSEMRJ6GBA, HSEMRJ6GBS, HSEMRJ6GWA, HSEMRJ6GWS, HSEMRJ6UWS

Centre plate (screw fixing) with inscription field 6 x 37 mm

with supporting frame, screw fixing only

for modular jack sockets

TE Connectivity (Tyco Electronics / AMP NETCONNECT)

for cable Ø max. 10 mm:

EMT-jack, Cat. 5e, 180° ref.-no. 0-0188650-5

EMT-jack, Cat. 5e, 90° ref.-no. 0-0188650-6

for cable Ø max. 6.5 mm:

EMT-jack, Cat. 5e, 180° ref.-no. 0-0338038-1

EMT-jack, Cat. 5e, 90° ref.-no. 0-0338038-2

Toolless Jack, Cat. 3 unshielded: ref.-no. 0-1116603-x

Toolless Jack, Cat. 5e unshielded: ref.-no. 0-1116604-x,

Toolless Jack, Cat. 5e shielded: ref.-no. 0-1339015-1

Toolless Jack, Cat. 6 unshielded: ref.-no. 0-1116605-x,

Toolless Jack, Cat. 6 shielded: ref.-no. 0-1339016-1

MTRJ-LWL jack: ref.-no. 1278414-1

for 1 socket

Thermoplastic (breakproof) high-gloss

ivory

169-15 NWE

white

169-15 NWE WW

Ref.-no.

Centre plate (screw fixing) with inscription field 6 x 37 mm

with supporting frame, screw fixing only

for modular jack: ref.-no.: 8 FWE

for modular jack AMP: 2168-11-1, semi-shielded, cat. 3

for 1 socket

Thermoplastic (breakproof) high-gloss

ivory	169-1 NFWF
white	169-1 NFWF WW

Centre plate (screw fixing) with inscription field 6 x 37 mm

with supporting frame, screw fixing only

for modular jack: ref.-no.: 8 FWE

for modular jack AMP: 2168-11-1, semi-shielded, cat. 3

for 2 sockets

Thermoplastic (breakproof) high-gloss

ivory	169-2 NFWF
white	169-2 NFWF WW

Centre plate (screw fixing) with inscription field 6 x 37 mm

with supporting frame, screw fixing only

for modular jack Radiall: R 280MOD813

for modular jack INFRA +: 7700 U, 7700 D, 7700 E

for 2 sockets

Thermoplastic (breakproof) high-gloss

ivory	169-2 NINF
white	169-2 NINF WW

Centre plate

for 1-gang modular jack sockets

IAE/UAE sockets ref.-no.: UAE 8 UPO

for sockets Cat. 6 ref.-no.: UAE 8 UPOK6

(1 x 8-pol.)

for WLAN access point ref.-no.: WLAN-AC-UAE, WLAN-AC-POE-UAE

Thermoplastic (breakproof) high-gloss

white	169-1 UAE WW
-------	---------------------

Suitable inserts:

Rutenbeck: UAE 8(4) UPO, UAE 8(8) UPO, UAE-Cat.5e-8 UPO OK, UAE-real.Cat.6-8 UPO OK

Telegärtner: AMJ 45, UMJ 45 and ISDN 1 x RJ 45 (TYP 8)

Centre plate

for 2-gang modular jack sockets

IAE/UAE sockets ref.-no.: UAE 2 x 8 UPO, UAE 8-8 UPO

for sockets Cat. 6 ref.-no.: UAE 8-8 UPOK6

(2 x 8-pol.)

for media converter 2-gang ref.-no.: MK-POF-2UAE

Thermoplastic (breakproof) high-gloss

white	169-2 UAE WW
black	169-2 UAE SW

Suitable inserts:

METZ CONNECT (BTR): 1307441001-i or 1307441200-i; E-Dat design 8/8(8), Class E

Rutenbeck: UAE 8/8 (8/8) UPO, UAE 2x8 (8) UPO, UAE-Cat.5e-8/8 UPO OK, UAE-real.Cat.6-8/8 UPO OK

Telegärtner: AMJ 45, UMJ 45 and ISDN 2 x RJ 45 (TYP 8/8)



50 x 50 mm system



Ref.-no.

Centre plate

for stereo loudspeaker socket ref.-no.: SLA 2 WW, SLA 2 AN
 for 2-gang supporting frame ref.-no.: UMA-MA2 in connection with universal modular jack socket type A ref.-no.: UMA-CAT6A
 for USB data interface ref.-no.: 2131 USBS
 for USB charger ref.-no.: USB 15 CA WW, USB 15 CA SW

Thermoplastic (breakproof) high-gloss

white	169 T WW
black	169 T SW

for **Rutenbeck**: UM-MA 2 Up with UM-real Cat.6a A
 for **Dätwyler**: flush-mounted modular jack socket (for 2 x MS-K 1/8 Cat.6a), ref.-no.: 440 012

Centre plate

with supporting frame, screw fixing only
 for loudspeaker socket ref.-no.: PB 4
 for chassis connector ref.-no.: CXLR-S, CXLR-D
 for XLR chassis Neutrik D / DL / DLX Series
 internal dimensions (W x H): 27.5 x 32.5 mm

Thermoplastic (breakproof) high-gloss

white	168-1 WW
-------	-----------------

Centre plate

for TV-FM sockets ref.-no.: EDU 04 F, GEDU 10, GEDU 15

Duroplastic (scratch-proof) glossy

ivory	161 TV
-------	---------------

Socket, 2-pole without earth 16 A / 250 V ~

screw fixing only, without claws

Duroplastic (scratch-proof) glossy

white	CD 111 WW
-------	------------------

SCHUKO® socket 16 A / 250 V ~

screw terminals for wires up to 2.5 mm²

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

ivory	CD 5121 BF
white	CD 5121 BF WW
brown	CD 5121 BF BR
green	CD 5121 BF GN
grey	CD 5121 BF GR
light grey	CD 5121 BF LG
orange	CD 5121 BF O
black	CD 5121 BF SW

Thermoplastic (breakproof) lacquered

bronze-beige	CD 5121 BF BB
platinum-grey	CD 5121 BF PG

Ref.-no.

SCHUKO® socket 16 A / 250 V ~

screwless terminals for wires up to 2.5 mm²

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

ivory	CD 5120 BF
white	CD 5120 BF WW
brown	CD 5120 BF BR
grey	CD 5120 BF GR
light grey	CD 5120 BF LG
black	CD 5120 BF SW

Thermoplastic (breakproof) lacquered

bronze-beige	CD 5120 BF BB
platinum-grey	CD 5120 BF PG

SCHUKO® socket 16 A / 250 V ~

with enhanced contact protection (shutter)

screwless terminals for wires up to 2.5 mm²

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

ivory	CD 5120 BFKI
white	CD 5120 BFKI WW

Socket insert, French/Belgian system

2-pole + male earth pin, 16 A / 250 V ~

Supporting frame, claws and claw screws are integrated into the earth protection.

with claws

with screwless terminals	1520 F EINS
with screw terminals	1521 F EINS

Socket insert, French/Belgian system

2-pole + male earth pin, 16 A / 250 V ~

Supporting frame is integrated into the earth protection.

without claws

with screwless terminals	1520 NF EINS
with screw terminals	1521 NF EINS

Centre plate

for socket insert French/Belgian system, ref.-no.: 1520 ..F EINS, 1521 ..F EINS

with enhanced contact protection (shutter)

Thermoplastic (breakproof) high-gloss

ivory	5121 FBFKIPL-1
white	5121 FBFKIWWPL-1
stone grey	5121 FBFKI SG PL-1
black	5121 FBFKI SW PL-1

Socket US NEMA system

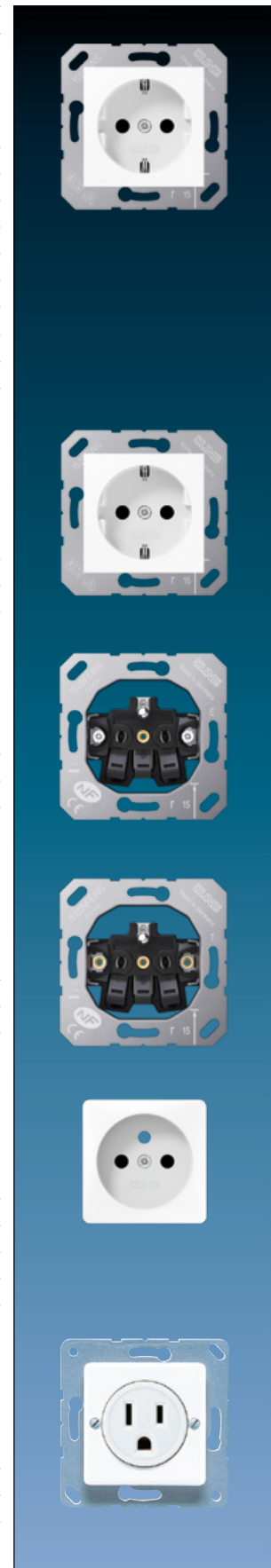
15 A, 125 V ~, 5-15R, 2-pole + earth

with supporting frame, screw fixing only

screw terminals for wires up to 4 mm² acc. to US-NEMA

Thermoplastic (breakproof) high-gloss

ivory	plug socket black	121-15
white		121-15 WW



Intermediate frames and hinged lids for 50 x 50 mm system



	Ref.-no.
Socket US NEMA system	
20 A, 125 V ~, 5-20R, 2-pole + earth	
with supporting frame, screw fixing only	
screw terminals for wires up to 4 mm ² acc. to US-NEMA	
Thermoplastic (breakproof) high-gloss	
ivory	121-20
white	121-20 WW
Potential equalisation socket	
with supporting frame, screw fixing only	
with 2 one-pole built-in male sockets according to DIN 42801	
for wires up to 6 mm ²	
Thermoplastic (breakproof) high-gloss	
ivory	165-2
white	165-2 WW
Right angle plug	
for potential equalisation socket	
screw terminal for wires with 4 or 6 mm ²	
	65 WIS
Intermediate frame for AS and A ranges	
to install devices with 50 x 50 mm cover (DIN 49075)	
Thermoplastic (breakproof) high-gloss	
ivory	A 590 Z
white	A 590 Z WW
black	A 590 Z SW
Thermoplastic (breakproof) lacquered	
aluminium	A 590 Z AL
matt lacquered	
matt snow white	A 590 Z WWM
matt graphite black	A 590 Z SWM
Intermediate frame CD range	
to install devices with 50 x 50 mm cover (DIN 49075)	
Thermoplastic (breakproof) high-gloss	
ivory	590 Z
white	CD 590 Z WW
Hinged lid CD range	
for sockets and devices with 50 x 50 mm cover	
Thermoplastic (breakproof) high-gloss	
ivory	CD 590 KL
white	CD 590 KL WW
brown	CD 590 KL BR
grey	CD 590 KL GR
green	CD 590 KL GN
light grey	CD 590 KL LG
orange	CD 590 KL O
black	CD 590 KL SW
metal versions (anodized aluminium)	
gold-bronze	CD 590 KL GB
platinum	CD 590 KL PT

Intermediate frames and hinged lids for 50 x 50 mm system

	Ref.-no.
Convex hinged lid CD range with inscription field 23 x 59 mm for sockets and devices with 50 x 50 mm cover Thermoplastic (breakproof) high-gloss white	CD 554 KL WW
Convex hinged lid CD range with inscription field 23 x 59 mm with safety lock for sockets and devices with 50 x 50 mm cover Thermoplastic (breakproof) high-gloss white	CD 554 SLKL WW
Key 1 piece	802 SL – 825 SL
When ordering, please indicate lock number!	
Transparent cover with paper inlay for inscription field 23 x 59 mm (Spare part) paper inlay white	CD 54 NA
Hinged lid CD range, with spring for sockets and devices with 50 x 50 mm cover Thermoplastic (breakproof) high-gloss	
ivory	CD 590 BFKL
white	CD 590 BFKL WW
brown	CD 590 BFKL BR
grey	CD 590 BFKL GR
green	CD 590 BFKL GN
light grey	CD 590 BFKL LG
orange	CD 590 BFKL O
red	CD 590 BFKL RT
Hinged lid CD range, with spring with inscription field 9 x 58 mm for sockets and devices with 50 x 50 mm cover Thermoplastic (breakproof) high-gloss	
ivory	CD 590 BFNAKL
white	CD 590 BFNAKL WW
brown	CD 590 BFNAKL BR
grey	CD 590 BFNAKL GR
green	CD 590 BFNAKL GN
light grey	CD 590 BFNAKL LG
orange	CD 590 BFNAKL O
red	CD 590 BFNAKL RT
Transparent cover with paper inlay for inscription field 9 x 58 mm (Spare part) paper inlay white	CD 90 NA



Intermediate frames and hinged lids for 50 x 50 mm system



Ref.-no.

Hinged lid CD range, with spring with safety lock (24 different locks)
with inscription field 9 x 39 mm
 for sockets and devices with 50 x 50 mm cover

Thermoplastic (breakproof) high-gloss

ivory	CD 590 BFKLSL
white	CD 590 BFKLSL WW
brown	CD 590 BFKLSL BR
grey	CD 590 BFKLSL GR
green	CD 590 BFKLSL GN
light grey	CD 590 BFKLSL LG
orange	CD 590 BFKLSL O
red	CD 590 BFKLSL RT

Key

(Spare part)
 for all hinged lids with safety lock

1 piece	802 SL – 825 SL
---------	-----------------

When ordering, please indicate lock number!

Transparent cover with paper inlay

for inscription field 9 x 39 mm
 (Spare part)

paper inlay white	LS 90 NA
-------------------	----------

Hinged lid SL range

for sockets and devices with 50 x 50 mm cover

white	SL 590 KL WW
gold-bronze	SL 590 KL GB
black	SL 590 KL SW

Intermediate frame LS range

to install devices with 50 x 50 mm cover (DIN 49075)

Thermoplastic (breakproof) high-gloss

ivory	LS 961 Z
white	LS 961 Z WW
light grey	LS 961 Z LG
black	LS 961 Z SW
matt lacquered	
matt snow white	LS 961 Z WWM
matt graphite black	LS 961 Z SWM

Intermediate frames and hinged lids for 50 x 50 mm system

Ref.-no.

Hinged lid LS range, with spring

for sockets and devices with 50 x 50 mm cover

Duroplastic (scratch-proof) glossy

ivory	P	LS 990 KL
white	P	LS 990 KL WW
black		LS 990 KL SW

Thermoplastic (breakproof) high-gloss

ivory	L	LS 990 BFKL
white	L	LS 990 BFKL WW
light grey	L	LS 990 BFKL LG
black	L	LS 990 BFKL SW
green		LS 990 BFKL GN
orange		LS 990 BFKL O
red		LS 990 BFKL RT

matt lacquered

matt snow white		LS 990 BFKL WWM
matt graphite black		LS 990 BFKL SWM

metal versions

aluminium	P L	AL 2990 KL
stainless steel	L	ES 2990 KL
anthracite (aluminium lacquered)		AL 2990 KL AN
dark (aluminium lacquered)		AL 2990 KL D
chrome		GCR 2990 KL
gold-coloured		GO 2990 KL
gold-plated		LS 990 KL GGO
classic brass	P	ME 2990 KL C
antique brass		ME 2990 KL AT

Hinged lid LS range, with spring

with inscription field 9 x 58 mm

for sockets and devices with 50 x 50 mm cover

Thermoplastic (breakproof) high-gloss

ivory	L	LS 990 BFNAKL
white	L	LS 990 BFNAKL WW
light grey	L	LS 990 BFNAKL LG
black	L	LS 990 BFNAKL SW
green		LS 990 BFNAKL GN
orange		LS 990 BFNAKL O
red		LS 990 BFNAKL RT

Transparent cover with paper inlay

for inscription field 9 x 58 mm

(Spare part)

paper inlay white		CD 90 NA
-------------------	--	----------

Hinged lid LS range, with spring

with inscription field 12 x 55 mm

for sockets and devices with 50 x 50 mm cover

aluminium	P L	AL 2990 NAKL
stainless steel	L	ES 2990 NAKL
anthracite (aluminium lacquered)		AL 2990 NAKL AN

Transparent cover

for inscription field 12 x 55 mm

(Spare part)

		M 20 NA
--	--	---------





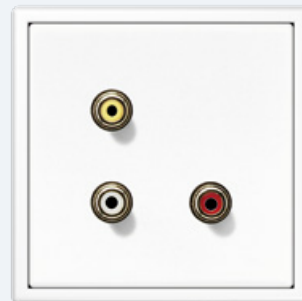
Antenna socket



30° mounting adapter



IAE/UAE socket



Multimedia terminals

Perfectly connected with the connection systems from JUNG: from mounting adapters for modular jack connectors to data and multimedia connection systems to USB chargers, all requirements are covered here – in both the private and commercial sectors.

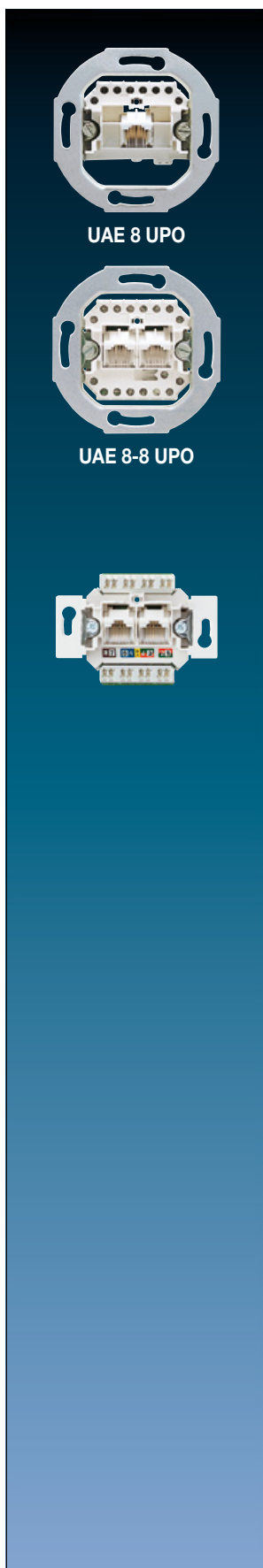
Connection systems



SMART TV SOCKET

JUNG has developed a terminal especially for smart televisions. The Smart TV Socket combines the fast network connection for streaming over the Internet and classic cable or satellite TV in one unit. Available in the JUNG switch design, it integrates harmoniously into the rest of the electrical installation.

Modular jack sockets



Ref.-no.

Modular jack socket, cat. 3

with screw connection terminals, suitable for ISDN
for 6 (RJ 12) and 8 (RJ 45) pole plugs.
acc. to DIN EN 60603-7, IEC 603-7

8 screw contacts

8-pole, for 1 terminal

UAE 8 UPO

2 x 8-pole, for 2 terminals (parallel)

UAE 2X8 UPO

2 x 8 screw contacts

2 x 8-pole, for 2 terminals (separate)

UAE 8-8 UPO

Category 3

suitable up to 16 MHz

Modular jack socket, cat. 6 / cat. 6A iso, unshielded

with LSA connection terminals

2 x 8-pole, for 2 terminals (separate)

UAE 8-8 UPO K6 US

RJ 45, category 6_A, class E_A (10 Gbit/s / 500 MHz),

Corresponds to Cat. 6_A acc. to ISO/IEC 11801 Amendment 2 and Cat. 6A

acc. to TIA/EIA-568-B.2-10 2008

suitable for PoE+ acc. to IEEE 802.3at

Modular jack sockets

Ref.-no.

Modular jack socket, cat. 6 / cat. 6A iso

screw fixing only, without claws
for network applications
LSA connection terminal, shielded
variable running of cable without sharp bending from all directions possible
suitable for standard wall boxes
8-pole, for 1 terminal

UAE 8 UPOK6

2 x 8-pole, for 2 terminals (separate)

UAE 8-8 UPOK6

RJ 45, category 6_A, class E_A (10 Gbit/s / 500 MHz),
Corresponds to Cat. 6_A acc. to ISO/IEC 11801 Amendment 2 and Cat. 6A
acc. to TIA/EIA-568-B.2-10 2008
suitable for PoE+ acc. to IEEE 802.3at
≥ 1000 insertion/removal cycles, suitable for RJ 11/12

Centre plates for modular jack sockets:

for 1 terminal

AS / A ranges: ref.-no. A 569-1 PLUA ..
CD range: ref.-no. CD 569-1 UA .., CD 569-1 NAUA ..
SL range: ref.-no. SL 569-1 UA ..
LS range: ref.-no. LS 969-1 UA .., LS 969-1 NAUA .., .. 2969-1 UA .., .. 2969-1 NAUA ..

for 2 terminals

AS / A ranges: ref.-no. A 569-2 BFPLUA ..
CD range: ref.-no. CD 569-2 UA .., CD 569-2 NAUA .., CD 590 KL LAN ..
SL range: ref.-no. SL 569-2 UA ..
LS range: ref.-no. LS 969-2 UA .., LS 969-2 NAUA .., .. 2969-2 UA .., .. 2969-2 NAUA ..,
LS 990 BF KL LAN .., .. 2990 KL LAN ..

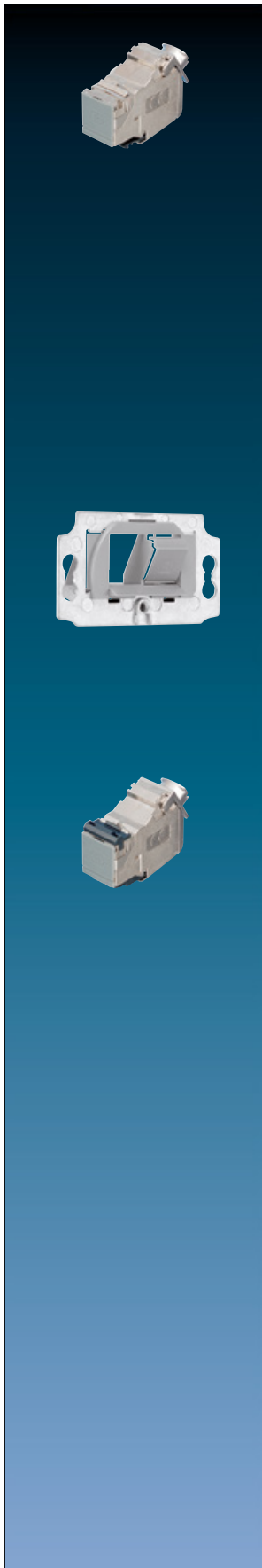


UAE 8 UPOK6



UAE 8-8 UPOK6

Universal modular jack socket cat. 6A iso



Ref.-no.

Universal modular jack socket cat. 6A iso, type A

RJ 45, shielded

with dust protection cover

for covers ref.-no.: 169-1 NWE., 169-2 NWE., ..569-1 NWE., ..569-2 NWE., ..969-1 NWE., ..969-2 NWE..
suitable for 10 Gbit Ethernet

UMA-CAT6A

RJ 45, category 6_A, class E_A (10 Gbit/s / 500 MHz),

Corresponds to Cat. 6_A acc. to ISO/IEC 11801 Amendment 2 and Cat. 6A

acc. to TIA/EIA-568-B.2-10 2008

suitable for PoE+ acc. to IEEE 802.3at

≥ 1000 insertion/removal cycles, suitable for RJ 11/12

- Unmistakable terminals with colour code and numeration (A and B code of the same value)
- For data cables with a diameter of 6 – 10 mm
- For wires of AWG 22 to AWG 24 (rigid/flexible, 7-core cable)

Can be combined with 2-gang supporting frame ref.-no.: UMA-MA2
and centre plates .. 569 T .., .. 969 T .. of all design ranges.

2-gang supporting frame

for 2 universal modular jack sockets, type A, ref.-no. UMA-CAT6A

screw fixing only, without claws

Can be combined with centre plates ref.-no. .. 569 T .., .. 969 T .. of all design ranges.

suitable for:

Rutenbeck: 13900304

SCHRACK: HSEMRJ6GBA, HSEMRJ6GBS

Installation only in cable duct boxes and floor boxes.

UMA-MA2

Universal modular jack socket cat. 6A iso, type B

RJ 45, shielded

with dust protection cover

for mounting plate ref.-no.: 54-2 BTR

suitable for 10 Gbit Ethernet

UMB-CAT6A

RJ 45, category 6_A, class E_A (10 Gbit/s / 500 MHz),

Corresponds to Cat. 6_A acc. to ISO/IEC 11801 Amendment 2 and Cat. 6A acc. to TIA/EIA-568-B.2-10 2008

suitable for PoE+ acc. to IEEE 802.3at

≥ 1000 insertion/removal cycles, suitable for RJ 11/12

- Unmistakable terminals with colour code and numeration (A and B code of the same value)
- For data cables with a diameter of 6 – 10 mm
- For wires of AWG 22 to AWG 24 (rigid/flexible, 7-core cable)

Ref.-no.

WLAN access point

WLAN-AC-UAE

- Power supply via 230 V line
- Can be operated as a Wireless Access Point, Client, Repeater or Bridge
- Backside screw terminals (5-pole) for LAN cable
- Frontside LAN connection via RJ45 socket
- Integrated WLAN antenna
- WLAN switchable, timer and timer function
- Wireless range adjustable
- Settings via integrated web server
- Installation in flush box according to EN 60670-1 (recommendation: deep box)
- Not suitable for installation in surface caps

Technical data

Rated voltage:	AC 100 ... 240 V ~, 50/60 Hz
Connection mode:	screw terminals
Power consumption:	max. 3 W
Radio data rate:	150 Mbit/s
Radio standards:	IEEE 802.11b/g/n
Frequency range:	2.4 GHz
Security:	WEP, WPA, WPA2
Transmitting power:	100 mW (adjustable 2 ... 100 %)

WLAN access point PoE

WLAN-AC-POE-UAE

- Power supply via PoE (class 3)
- Can be operated as a Wireless Access Point, Client, Repeater or Bridge
- Backside screw terminals (9-pole) for LAN cable
- Frontside LAN connection via RJ45 socket
- Additionally, PoE (class 2) is provided at frontside connection
- Integrated WLAN antenna
- WLAN switchable, timer and timer function
- Wireless range adjustable
- Settings via integrated web server
- Installation in flush box according to EN 60670-1 (recommendation: deep box)
- Not suitable for installation in surface caps

Technical data

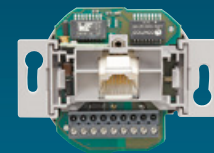
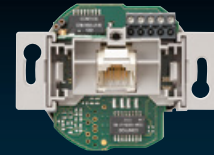
Rated voltage:	PoE 48 V, Class 0, IEEE 802.3at
Connection mode:	screw terminals
Power consumption:	max. 3 W
Radio data rate:	150 Mbit/s
Radio standards:	IEEE 802.11b/g/n
Frequency range:	2.4 GHz
Security:	WEP, WPA, WPA2
Transmitting power:	100 mW (adjustable 2 ... 100 %)

Covers for WLAN access points:

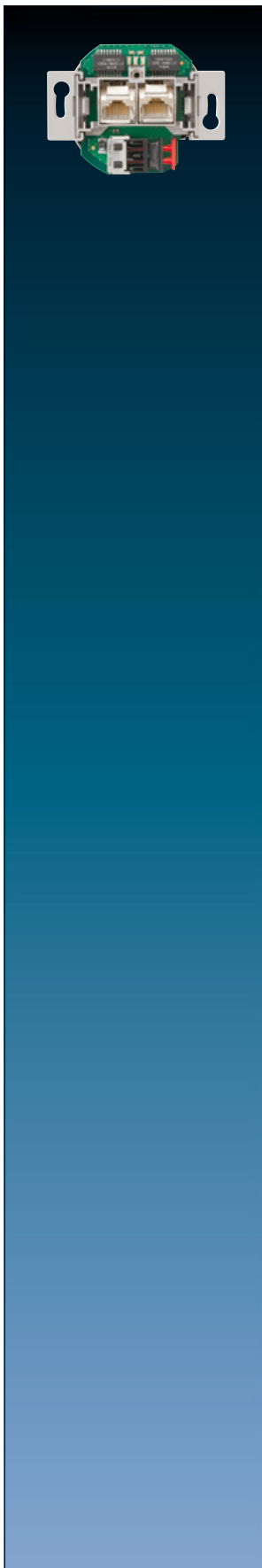
AS / A ranges:	ref.-no.: A 569-1 ..PLUA ..
CD range:	ref.-no.: CD 569-1 UA .., CD 569-1 NAUA ..
SL range:	ref.-no.: SL 569-1 UA ..
LS range:	ref.-no.: ..969-1 UA .., ..969-1 NAUA ..
50 x 50:	ref.-no.: 169-1 UAE WW

Accessories for WLAN access points:

Magnet for reset: ref.-no. PL MAGNET 01



Media converter



Ref.-no.

Media converter 2-gang

2 x RJ45, 1 x POF (Polymer Optical Fiber)

MK-POF-2UAE

- Installation in flush box according to EN 60670-1 (recommendation: deep box)
- Not suitable for installation in surface caps

Covers:

AS / A ranges: ref.-no.: A 569-2 BFPLUA ..

CD range: ref.-no.: CD 569-2 ..UA ..

SL range: ref.-no.: SL 569-2 UA ..

LS range: ref.-no.: ..969-2 UA ..., ..969-2 NAUA ..

50 x 50: ref.-no.: 169-2 UAE WW

Technical data

Rated voltage: AC 100 ... 240 V ~ ± 10 %

Power consumption: typical 0.9 W

Interfaces: 2 x RJ45, 1 x POF (2.2 mm Duplex)

Transfer rate: applications up to 100 Mbit/s

Max. line length: 70 m with POF 2.2 mm

Wavelength: typical 660 nm

Transmission characteristics:

DIN EN 50173-1:2003-06 Category 5

ISO/IEC 11801:2002 Category 5

DIN EN 50173:2011-09

IEC 60603-7-2:2007 unshielded 100 MHz

TIA/IAE-568-B.2-2001 Category 5e

Manufacturers of POF cables are e.g. Rutenbeck and Leoni.

Manufacturers of empty conduits with integrated POF cable

are e.g. Fränkische Rohrwerke.

Ref.-no.

Media converter 1-gang

Rail mounting device, 1 rail unit
1 x RJ45, 1 x POF (Polymer Optical Fiber)

MK-POF-UAE-REG

Technical data

Rated voltage:	AC/DC 8 ... 24 V
Power supply:	via external power supply, ref.-no. NT 1220 REG VDC input voltage 100 ... 240 V ~ output voltage DC 12 V / 2 A (not included)
Power consumption:	typical 0.9 W
Interfaces:	1 x RJ45, 1 x POF (2.2 mm Duplex)
Transfer rate:	applications up to 100 Mbit/s
Max. line length:	70 m with POF 2.2 mm
Wavelength:	typical 660 nm
Mounting width:	18 mm (1 rail unit)
Transmission characteristics:	
DIN EN 50173-1:2003-06	Category 5
ISO/IEC 11801:2002	Category 5
DIN EN 50173:2011-09	
IEC 60603-7-2:2007	unshielded 100 MHz
TIA/IAE-568-B.2-2001	Category 5e

Manufacturers of POF cables are e.g. Rutenbeck and Leoni.
Manufacturers of empty conduits with integrated POF cable
are e.g. Fränkische Rohrwerke.



Mounting adapter

Ref.-no.



3069-2 SIE

Mounting adapter 30°

suitable for:

JUNG: UMA-CAT6A

3M: VOL-0001, VOL-0002, VOLOCK6ASND8

Assmann: DN 93612, DN 93615

METZ CONNECT (BTR): 130A10-I, 130B23-E, 130B21-E

CobiNet: 6920 0052

Dätwyler: 418 061

eku: t66851000, t66850990

LEONI: 9ZQ01000, 9ZK00026

Nexans:

N420.666 + adapter red N429.625 or adapter blue N429.626

N420.735 + metal adapter N429.620

N420.550 + adapter red N429.625

N420.555 + adapter red N429.625

N420.67A + adapter red N429.625

N420.66A + adapter red N429.625

N420.661 + adapter red N429.625

N420.660 + adapter red N429.625

RADIALL: R280MOD807, R2080MOD810A, R280MOD830, R280MOD803A, R280MOD800, R280MOD834

Reichle & De-Massari: R509509 (incl. adapter keystone)

SETEC: 501415, 501414

SIEMON: MX6-K., MX5-K., Z6A-SK(XX), Z5A-SK(XX), Z6A-K01, Z6A-01, MX5-F01, MX6-01, MX6-F01, Z5-S01, MX5-01, Z6-K01, Z6-01, Z6A-S01

Telegärtner: J00029K0036, J00029A2000

SCHRACK: HSPMRJ6G1A, HSEMRJ6GBA, HSEMRJ6GBS, HSEMRJ6GWA, HSEMRJ6GWS, HSEMRJ6UWS

3069-2 SIE



3069-25 WE

suitable for:

TE Connectivity: 1375187-1, 0-1375189-1, 1375190-1, 0-1375188-1 (replacement for 569013-1), 1375055-1, 1339015-1, 1711592-1

Brand-Rex: AC6JAKU002, AC6JAKU0K2, AC6JAKU000

3069-25 WE



3069-2 AT

suitable for:

Commscope (Systemax) MEGALINE: MGS200, MGS500BH-262, MPS100E-003

Reichle & De-Massari:

R808370 (incl. adapter no. 1)

R304373 + adapter R310694

R302372 + adapter R310694

R305111 + adapter R310694

R305112 + adapter R310694

R305113 + adapter R310694

R305114 + adapter R310694

3069-2 AT



3069-2 PAND

suitable for:

Panduit: CJS688TGY, CJ688TGAW, CMDJAQLCBL, CMDSLCZAW, CJ6X88TGAW, CJ5E88TGAW, CJS5E88TGY

3069-2 PAND

Mounting adapter

Ref.-no.

Mounting adapter 30°

suitable for:

LexCom: 306520007 + mounting frame creme 306580030

3069-2 LEX

suitable for:

Brand-Rex: C6CJAKU0K2

Panduit: NK688MBL

TE Connectivity: 1711342-1, 1116604-x, 1116603-x

3069-2 BR

Centre plate with inscription field 9 x 51 mm

for mounting adapter 30° ref.-no.: 3069..

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	A 569-30 BF PL
white	A 569-30 BF PL WW
black	A 569-30 BF PL SW

Thermoplastic (breakproof) lacquered

aluminium	A 569-30 BF PL AL
matt lacquered	
matt anthracite	A 569-30 BF PL ANM

for LS range

Thermoplastic (breakproof) high-gloss

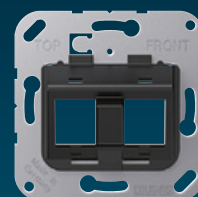
ivory	LS 569-30 BF PL
white	LS 569-30 BF PL WW
light grey	LS 569-30 BF PL LG
black	LS 569-30 BF PL SW

metal colours (thermoplastic lacquered)

aluminium (lacquered)	AL 569-30 BF PL-L
stainless steel (lacquered)	ES 569-30 BF PL-L
anthracite (lacquered)	AL 569-30 BF PL AN L
classic brass (lacquered)	ME 569-30 BF PL C-L
antique brass (lacquered)	ME 569-30 BF PL AT L



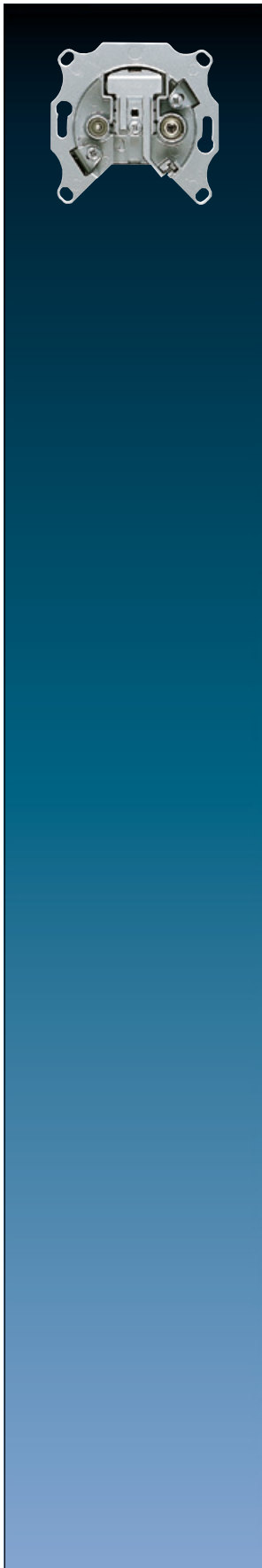
3069-2 LEX



3069-2 BR



TV-FM sockets



Ref.-no.

TV-FM socket outlet insert

Screwless terminals
for cable TV and SAT distribution
Frequency range 5 ... 2400 MHz without gaps on both outputs.
Housing: torsion-resistant, passivated diecast zinc

Terminated outlet

EDU 04 F

Terminated outlets are used for individual and community installation (BK, CATV, MATV)
connected to decoupling stub lines.

Technical data

IN – TV (IEC male)

Frequency range: 5 ... 2150 (2400) MHz

Attenuation: 4.0 dB

IN – RF (IEC female)

Frequency range: 5 ... 2150 (2400) MHz

Attenuation: 4.0 dB

Isolation

TV – RF: VHF, UHF / SAT: 20/20 dB

DC through

TV – IN (IEC male): 13/18 V, 22 kHz
max. +24 V/0.5 A

Covers:

AS / A ranges: ref.-no.: A 561 PLTV ..

CD range: ref.-no.: CD 561 SAT ..

SL range: ref.-no.: SL 561 TV ..

LS range: ref.-no.: ..990 TV ..

50 x 50: ref.-no.: 161 TV

Ref.-no.

TV-FM socket outlet insert

Screwless terminals

for cable TV and SAT distribution

Frequency range 5 ... 2400 MHz without gaps on both outputs.

Housing: torsion-resistant, passivated diecast zinc

Loop through outlet

GEDU 10

Loop through outlets can also be used in tree networks. The last loop through socket installed in a trunk or stub line must be terminated by terminating resistor R 75.

Technical data

IN – OUT (throughpass)

Frequency range: 5 ... 2150 (2400) MHz

Attenuation: 2.5 dB

IN – TV (IEC male)

Frequency range: 5 ... 2150 (2400) MHz

Attenuation: 10.0 dB

IN – RF (IEC female)

Frequency range: 5 ... 2150 (2400) MHz

Attenuation: 10.0 dB

Isolation

OUT – TV / RF: VHF, UHF / SAT: 35/20 dB

TV – RF: VHF, UHF / SAT: 38/30 dB

DC through:

no

Covers:

AS / A ranges: ref.-no.: A 561 PLTV ..

CD range: ref.-no.: CD 561 SAT ..

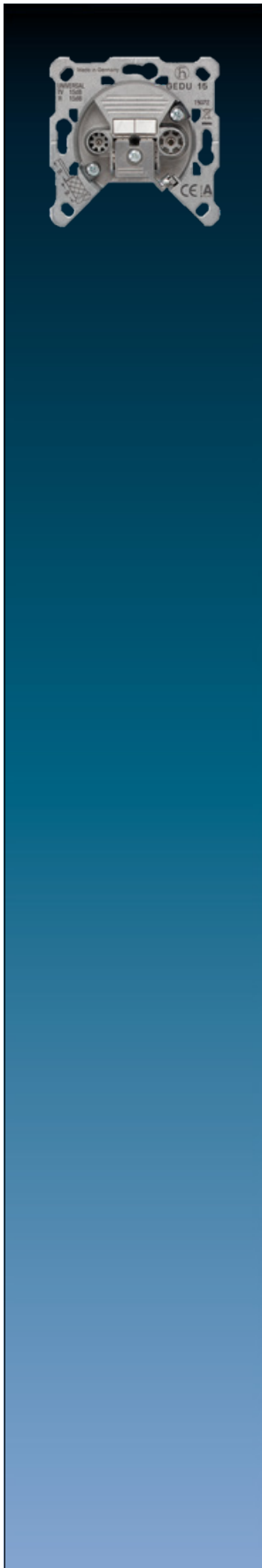
SL range: ref.-no.: SL 561 TV ..

LS range: ref.-no.: ..990 TV ..

50 x 50: ref.-no.: 161 TV



TV-FM sockets



Ref.-no.

TV-FM socket outlet insert

Screwless terminals
for cable TV and SAT distribution
Frequency range 5 ... 2400 MHz without gaps on both outputs.
Housing: torsion-resistant, passivated diecast zinc

Loop through outlet

GEDU 15

Loop through outlets can also be used in tree networks. The last loop through socket installed in a trunk or stub line must be terminated by terminating resistor R 75.

Note on the use of loop through outlets GEDU 10 and GEDU 15:

In a main line with e.g. 7 subscribers the first 4 TV sockets will be GEDU 15 and the remaining ones will be GEDU 10. In this way all sockets will have approximately the same signal strength.

Technical data

IN – OUT (throughpass)

Frequency range: 5 ... 2150 (2400) MHz
Attenuation: 1.0 dB

IN – TV (IEC male)

Frequency range: 5 ... 2150 (2400) MHz
Attenuation: 15.0 dB

IN – RF (IEC female)

Frequency range: 5 ... 2150 (2400) MHz
Attenuation: 15.0 dB

Isolation

OUT – TV / RF: VHF, UHF / SAT: 38/30 dB
TV – RF: VHF, UHF / SAT: 24/24 dB

DC through:

no

Covers:

AS / A ranges: ref.-no.: A 561 PLTV ..

CD range: ref.-no.: CD 561 SAT ..

SL range: ref.-no.: SL 561 TV ..

LS range: ref.-no.: ..990 TV ..

50 x 50: ref.-no.: 161 TV

Ref.-no.

SAT-TV-FM socket outlet insert

Screwless terminals

3-gang all-round antenna socket with interconnected frequency bands, thus flexible and future proof.

Suitable for SAT IF and CATV domestic distribution installations.

Seamless CATV and SAT ranges and low distribution attenuation thanks to combined filter-tap structure.

Housing: torsion-resistant, passivated diecast zinc

Terminated outlet

EDA 302 F

Terminated outlets are used for individual and community installation (BK, CATV, MATV) connected to decoupling stub lines.

Technical data

IN – TV (IEC male)

Frequency range: 5 ... 862 MHz

Attenuation: 2.5 dB

IN – RF (IEC female)

Frequency range: 5 ... 118 MHz

Attenuation: 6.5 dB

IN – SAT (F female)

Frequency range: 950 ... 2150 (2400) MHz

Attenuation: 2.2 dB

Isolation

TV – SAT: VHF, UHF / SAT: 20/20 dB

RF – SAT: VHF / SAT: 35/30 dB

TV – RF: VHF, UHF: 20 dB

DC through

SAT-IN (F female): 13/18 V, 22 kHz
max. +24 V/0.5 A

Covers:

AS / A ranges: ref.-no.: A 561 PLSAT ..

CD range: ref.-no.: CD 561 SAT ..

SL range: ref.-no.: SL 561 SAT ..

LS range: ref.-no.: ..990 SAT ..



TV-FM sockets



Ref.-no.

SAT-TV-FM socket outlet insert

Screwless terminals

3-gang all-round antenna socket with interconnected frequency bands, thus flexible and future proof.

Suitable for SAT IF and CATV domestic distribution installations.

Seamless CATV and SAT ranges and low distribution attenuation thanks to combined filter-tap structure.

Housing: torsion-resistant, passivated diecast zinc

Loop through outlet

GDA 313 F

Loop through outlets can also be used in tree networks. The last loop through socket installed in a trunk or stub line must be terminated by terminating resistor R 75.

Technical data

IN – OUT (throughpass)

Frequency range: 5 ... 2150 (2400) MHz

Attenuation: 1.0 ... 2.0 (2.8) dB

IN – TV (IEC male)

Frequency range: 5 ... 862 MHz

Attenuation: 13.0 dB

IN – RF (IEC female)

Frequency range: 5 ... 118 MHz

Attenuation: 17.0 dB

IN – SAT (F female)

Frequency range: 950 ... 2150 (2400) MHz

Attenuation: 12.0 (13.5) dB

Isolation

OUT – TV / RF: VHF, UHF: 28 dB

OUT – SAT: SAT: 18 dB

TV – SAT: VHF, UHF / SAT: 20/20 dB

RF – SAT: VHF / SAT: 35/30 dB

TV – RF: VHF, UHF: 20 dB

DC through

SAT-IN (F female): 13/18 V, 22 kHz

max. +24 V/0.5 A

Covers:

AS / A ranges: ref.-no.: A 561 PLSAT ..

CD range: ref.-no.: CD 561 SAT ..

SL range: ref.-no.: SL 561 SAT ..

LS range: ref.-no.: ..990 SAT ..

Terminating resistor 75 Ω

to terminate the last loop through socket installed in a line

for TV-FM socket outlet inserts ref.-no.: GEDU 10, GEDU 15, GDA 313 F

R 75

Ref.-no.

Smart TV socket

with supporting frame, screw fixing only

Cover with snap-on fixing and shutter with spring

including universal modular jack socket ref.-no.: UMA-CAT6A and IEC plug module for antenna cables

Technical data

Specification IEC plug module

External connection: coaxial plug IEC 60169-2
 Internal connection: F socket IEC 60169-24
 Impedance: 75 Ohm
 Frequency range: 5 ... 2,400 MHz
 Attenuation: 0.0 dB

Installation depth not considering cables

Universal modular jack socket: 40 mm

IEC plug module: 30 mm

Use right angle plug.

Consider bending radius. Ensure sufficient installation space.

for AS and A ranges

Thermoplastic (breakproof) high-gloss

white

MMD A 4521 WW

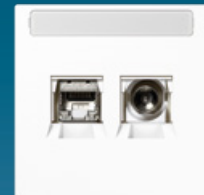
for LS range

with inscription field 9 x 58 mm

Thermoplastic (breakproof) high-gloss

white

MMD LS 4521 WW



Accessories – Audio



Ref.-no.

Chassis connector

XLR compatible, with universal housing for male and female version

Chassis (male)

CXLR-S

Chassis (female)

CXLR-D

Covers:

AS / A ranges: ref.-no.: A 568-1 BF ..

CD range: ref.-no.: 568-1

50 x 50: ref.-no.: 168-1 WW

Gold-plated loudspeaker terminal

for professional connection of high quality loudspeaker systems

Cable sockets (6 mm and 8 mm fork) or crimped cables (6 mm²) are connected with a patented clamping nut system. The pole terminal body is manufactured in one piece to obtain the least resistance.

red identification

LPK 63 RT

black identification

LPK 63 SW

Technical data

Internal connection:

soldering or crimped connection (crimped ferrule, screw contact)

Transition resistance:

≤ 0.1 mΩ clamp connection

≤ 0.15 mΩ banana plug 4 mm

Material:

24 carat gold-plated copper

High quality RCA (phono) socket pair

red/white identification

CIB 63

made of 24 carat gold plated copper, double prismatic contact

With special pressure spring mechanic, dielectric made of Teflon

Inside connection: soldering

Mounting plate

for installation of loudspeaker terminals (ref.-no. LPK 63 RT, LPK 63 SW) or RCA (phono) sockets (ref.-no. CIB 63) in cover for 2 loudspeaker sockets (ref.-no. .. 562 .., .. 962 ..)

63 WBT

Stereo loudspeaker socket

25 V ~, 60 V DC

for wires up to 10 mm²

with 4 front side plug terminals in red/black

also suitable for SELV

white

SLA 2 WW

anthracite

SLA 2 AN

Covers:

AS / A ranges: ref.-no. A 569 PLT ..

CD range: ref.-no. CD 569 T .. (not metal versions)

LS range: ref.-no. .. 969 T .., .. 2969 T ..

Ref.-no.

Cinch Audio (RCA) / Stereo Jack (TRS 3.5 mm)

with supporting frame, screw fixing only

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	MA A 1011
white	MA A 1011 WW
black	MA A 1011 SW

Thermoplastic (breakproof) lacquered

aluminium	MA A 1011 AL
-----------	--------------

matt lacquered

matt snow white	MA A 1011 WWM
matt graphite black	MA A 1011 SWM
matt anthracite	MA A 1011 ANM

for CD range

Thermoplastic (breakproof) high-gloss

white	MA CD 1011 WW
-------	---------------

for LS range

Thermoplastic (breakproof) high-gloss

ivory	MA LS 1011
white	MA LS 1011 WW
light grey	MA LS 1011 LG
black	MA LS 1011 SW

matt lacquered

matt snow white	MA LS 1011 WWM
matt graphite black	MA LS 1011 SWM

metal versions

aluminium	MA AL 1011
stainless steel	MA ES 1011
anthracite (aluminium lacquered)	MA AL 1011 AN

Cinch Audio (RCA)

with supporting frame, screw fixing only

for AS and A ranges

Thermoplastic (breakproof) high-gloss

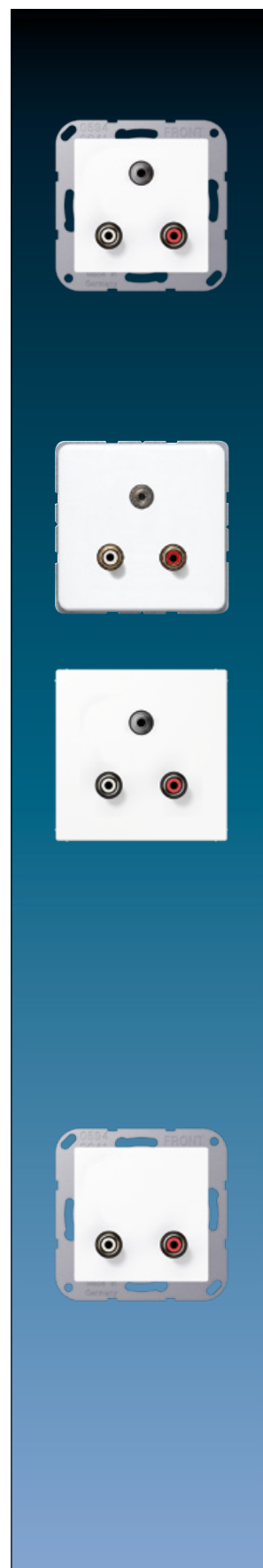
ivory	MA A 1021
white	MA A 1021 WW
black	MA A 1021 SW

Thermoplastic (breakproof) lacquered

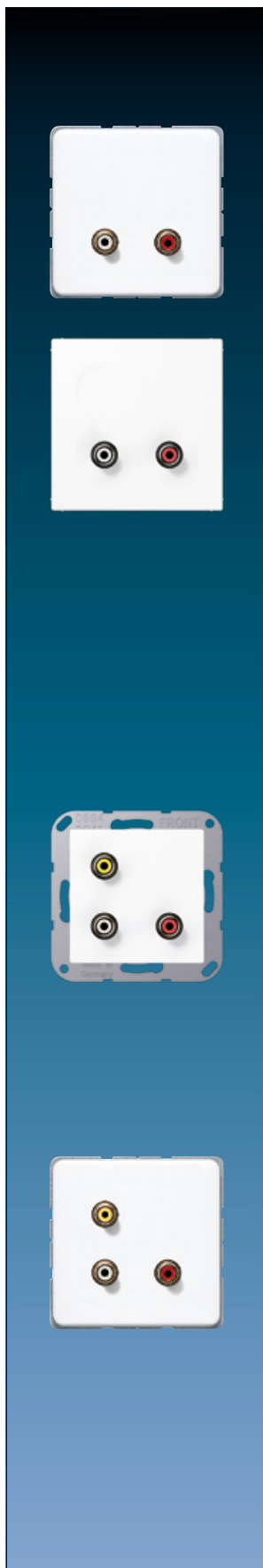
aluminium	MA A 1021 AL
-----------	--------------

matt lacquered

matt snow white	MA A 1021 WWM
matt graphite black	MA A 1021 SWM
matt anthracite	MA A 1021 ANM



Multimedia terminals



Ref.-no.

Cinch Audio (RCA)

with supporting frame, screw fixing only

for CD range

Thermoplastic (breakproof) high-gloss

white

MA CD 1021 WW

for LS range

Thermoplastic (breakproof) high-gloss

ivory

MA LS 1021

white

MA LS 1021 WW

light grey

MA LS 1021 LG

black

MA LS 1021 SW

matt lacquered

matt snow white

MA LS 1021 WWM

matt graphite black

MA LS 1021 SWM

metal versions

aluminium

MA AL 1021

stainless steel

MA ES 1021

anthracite (aluminium lacquered)

MA AL 1021 AN

Cinch Audio (RCA) / Composite Video

with supporting frame, screw fixing only

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory

MA A 1031

white

MA A 1031 WW

black

MA A 1031 SW

Thermoplastic (breakproof) lacquered

aluminium

MA A 1031 AL

matt lacquered

matt snow white

MA A 1031 WWM

matt graphite black

MA A 1031 SWM

matt anthracite

MA A 1031 ANM

for CD range

Thermoplastic (breakproof) high-gloss

white

MA CD 1031 WW

Ref.-no.

Cinch Audio (RCA) / Composite Video

with supporting frame, screw fixing only

for LS range

Thermoplastic (breakproof) high-gloss

ivory	MA LS 1031
white	MA LS 1031 WW
light grey	MA LS 1031 LG
black	MA LS 1031 SW

matt lacquered

matt snow white	MA LS 1031 WWM
matt graphite black	MA LS 1031 SWM

metal versions

aluminium	MA AL 1031
stainless steel	MA ES 1031
anthracite (aluminium lacquered)	MA AL 1031 AN

VGA

with supporting frame, screw fixing only

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	MA A 1102
white	MA A 1102 WW
black	MA A 1102 SW

Thermoplastic (breakproof) lacquered

aluminium	MA A 1102 AL
-----------	--------------

matt lacquered

matt snow white	MA A 1102 WWM
matt graphite black	MA A 1102 SWM
matt anthracite	MA A 1102 ANM

for CD range

Thermoplastic (breakproof) high-gloss

white	MA CD 1102 WW
-------	---------------

for LS range

Thermoplastic (breakproof) high-gloss

ivory	MA LS 1102
white	MA LS 1102 WW
light grey	MA LS 1102 LG
black	MA LS 1102 SW

matt lacquered

matt snow white	MA LS 1102 WWM
matt graphite black	MA LS 1102 SWM

metal versions

aluminium	MA AL 1102
stainless steel	MA ES 1102
anthracite (aluminium lacquered)	MA AL 1102 AN



Multimedia terminals



Ref.-no.

HDMI

with supporting frame, screw fixing only

Consider bending radius and various plug types. Ensure sufficient installation space.

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	MA A 1112
white	MA A 1112 WW
black	MA A 1112 SW

Thermoplastic (breakproof) lacquered

aluminium	MA A 1112 AL
-----------	--------------

matt lacquered

matt snow white	MA A 1112 WWM
matt graphite black	MA A 1112 SWM
matt anthracite	MA A 1112 ANM

for CD range

Thermoplastic (breakproof) high-gloss

white	MA CD 1112 WW
-------	---------------

for LS range

Thermoplastic (breakproof) high-gloss

ivory	MA LS 1112
white	MA LS 1112 WW
light grey	MA LS 1112 LG
black	MA LS 1112 SW

matt lacquered

matt snow white	MA LS 1112 WWM
matt graphite black	MA LS 1112 SWM

metal versions

aluminium	MA AL 1112
stainless steel	MA ES 1112
anthracite (aluminium lacquered)	MA AL 1112 AN

USB 2.0

with supporting frame, screw fixing only

Consider bending radius and various plug types. Ensure sufficient installation space.

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	MA A 1122
white	MA A 1122 WW
black	MA A 1122 SW

Thermoplastic (breakproof) lacquered

aluminium	MA A 1122 AL
-----------	--------------

matt lacquered

matt snow white	MA A 1122 WWM
matt graphite black	MA A 1122 SWM
matt anthracite	MA A 1122 ANM

Ref.-no.

USB 2.0

with supporting frame, screw fixing only
Consider bending radius and various plug types. Ensure sufficient installation space.

for CD range

Thermoplastic (breakproof) high-gloss

white	MA CD 1122 WW
-------	---------------

for LS range

Thermoplastic (breakproof) high-gloss

ivory	MA LS 1122
white	MA LS 1122 WW
light grey	MA LS 1122 LG
black	MA LS 1122 SW

matt lacquered

matt snow white	MA LS 1122 WWM
matt graphite black	MA LS 1122 SWM

metal versions

aluminium	MA AL 1122
stainless steel	MA ES 1122
anthracite (aluminium lacquered)	MA AL 1122 AN

Cinch Audio (RCA) / Stereo Jack (TRS 3.5 mm) / VGA

with supporting frame, screw fixing only

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	MA A 1072
white	MA A 1072 WW
black	MA A 1072 SW

Thermoplastic (breakproof) lacquered

aluminium	MA A 1072 AL
-----------	--------------

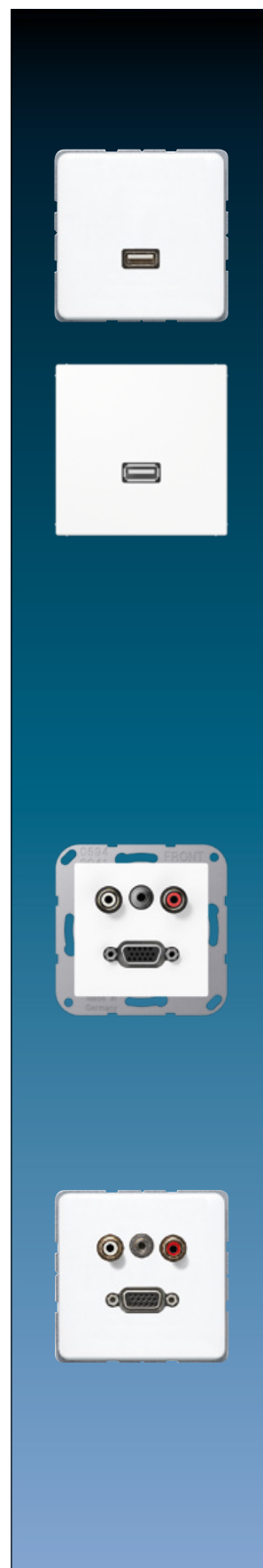
matt lacquered

matt snow white	MA A 1072 WWM
matt graphite black	MA A 1072 SWM
matt anthracite	MA A 1072 ANM

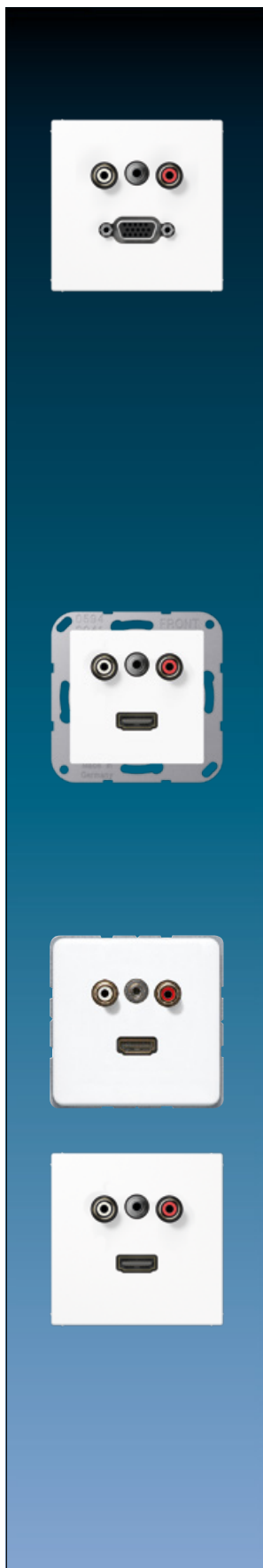
for CD range

Thermoplastic (breakproof) high-gloss

white	MA CD 1072 WW
-------	---------------



Multimedia terminals



Ref.-no.

Cinch Audio (RCA) / Stereo Jack (TRS 3.5 mm) / VGA

with supporting frame, screw fixing only

for LS range

Thermoplastic (breakproof) high-gloss

ivory	MA LS 1072
white	MA LS 1072 WW
light grey	MA LS 1072 LG
black	MA LS 1072 SW

matt lacquered

matt snow white	MA LS 1072 WWM
matt graphite black	MA LS 1072 SWM

metal versions

aluminium	MA AL 1072
stainless steel	MA ES 1072
anthracite (aluminium lacquered)	MA AL 1072 AN

Cinch Audio (RCA) / Stereo Jack (TRS 3.5 mm) / HDMI

with supporting frame, screw fixing only

Consider bending radius and various plug types. Ensure sufficient installation space.

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	MA A 1082
white	MA A 1082 WW
black	MA A 1082 SW

Thermoplastic (breakproof) lacquered

aluminium	MA A 1082 AL
matt lacquered	
matt snow white	MA A 1082 WWM
matt graphite black	MA A 1082 SWM
matt anthracite	MA A 1082 ANM

for CD range

Thermoplastic (breakproof) high-gloss

white	MA CD 1082 WW
-------	---------------

for LS range

Thermoplastic (breakproof) high-gloss

ivory	MA LS 1082
white	MA LS 1082 WW
light grey	MA LS 1082 LG
black	MA LS 1082 SW

matt lacquered

matt snow white	MA LS 1082 WWM
matt graphite black	MA LS 1082 SWM

metal versions

aluminium	MA AL 1082
stainless steel	MA ES 1082
anthracite (aluminium lacquered)	MA AL 1082 AN

Ref.-no.

2 x HDMI

with supporting frame, screw fixing only
Consider bending radius and various plug types. Ensure sufficient installation space.

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	MA A 1133
white	MA A 1133 WW
black	MA A 1133 SW

Thermoplastic (breakproof) lacquered

aluminium	MA A 1133 AL
-----------	--------------

matt lacquered

matt snow white	MA A 1133 WWM
matt graphite black	MA A 1133 SWM
matt anthracite	MA A 1133 ANM

for CD range

Thermoplastic (breakproof) high-gloss

white	MA CD 1133 WW
-------	---------------

for LS range

Thermoplastic (breakproof) high-gloss

ivory	MA LS 1133
white	MA LS 1133 WW
light grey	MA LS 1133 LG
black	MA LS 1133 SW

matt lacquered

matt snow white	MA LS 1133 WWM
matt graphite black	MA LS 1133 SWM

metal versions

aluminium	MA AL 1133
stainless steel	MA ES 1133
anthracite (aluminium lacquered)	MA AL 1133 AN

2 x USB 2.0

with supporting frame, screw fixing only
Consider bending radius and various plug types. Ensure sufficient installation space.

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	MA A 1153
white	MA A 1153 WW
black	MA A 1153 SW

Thermoplastic (breakproof) lacquered

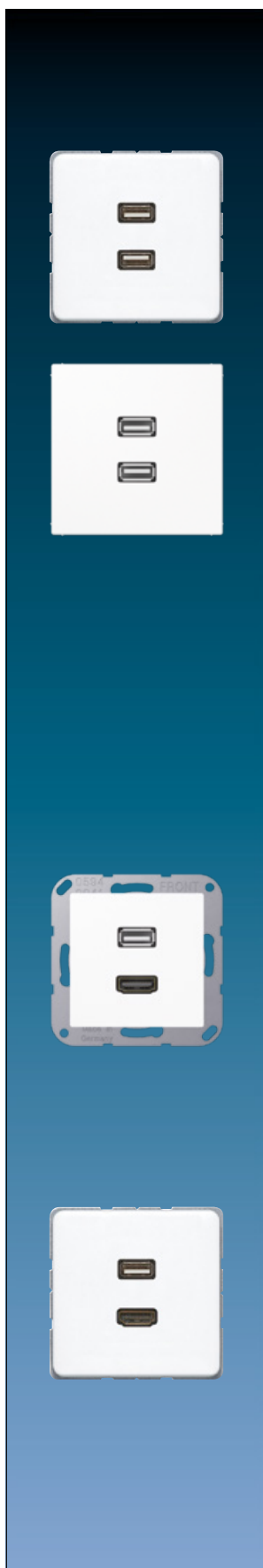
aluminium	MA A 1153 AL
-----------	--------------

matt lacquered

matt snow white	MA A 1153 WWM
matt graphite black	MA A 1153 SWM
matt anthracite	MA A 1153 ANM



Multimedia terminals



Ref.-no.

2 x USB 2.0

with supporting frame, screw fixing only
Consider bending radius and various plug types. Ensure sufficient installation space.

for CD range

Thermoplastic (breakproof) high-gloss

white	MA CD 1153 WW
-------	----------------------

for LS range

Thermoplastic (breakproof) high-gloss

ivory	MA LS 1153
white	MA LS 1153 WW
light grey	MA LS 1153 LG
black	MA LS 1153 SW

matt lacquered

matt snow white	MA LS 1153 WWM
matt graphite black	MA LS 1153 SWM

metal versions

aluminium	MA AL 1153
stainless steel	MA ES 1153
anthracite (aluminium lacquered)	MA AL 1153 AN

HDMI / USB 2.0

with supporting frame, screw fixing only
Consider bending radius and various plug types. Ensure sufficient installation space.

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	MA A 1163
white	MA A 1163 WW
black	MA A 1163 SW

Thermoplastic (breakproof) lacquered

aluminium	MA A 1163 AL
-----------	---------------------

matt lacquered

matt snow white	MA A 1163 WWM
matt graphite black	MA A 1163 SWM
matt anthracite	MA A 1163 ANM

for CD range

Thermoplastic (breakproof) high-gloss

white	MA CD 1163 WW
-------	----------------------

Ref.-no.

HDMI / USB 2.0

with supporting frame, screw fixing only

Consider bending radius and various plug types. Ensure sufficient installation space.

for LS range

Thermoplastic (breakproof) high-gloss

ivory	MA LS 1163
white	MA LS 1163 WW
light grey	MA LS 1163 LG
black	MA LS 1163 SW

matt lacquered

matt snow white	MA LS 1163 WWM
matt graphite black	MA LS 1163 SWM

metal versions

aluminium	MA AL 1163
stainless steel	MA ES 1163
anthracite (aluminium lacquered)	MA AL 1163 AN

HDMI / VGA

with supporting frame, screw fixing only

Consider bending radius and various plug types. Ensure sufficient installation space.

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	MA A 1173
white	MA A 1173 WW
black	MA A 1173 SW

Thermoplastic (breakproof) lacquered

aluminium	MA A 1173 AL
-----------	--------------

matt lacquered

matt snow white	MA A 1173 WWM
matt graphite black	MA A 1173 SWM
matt anthracite	MA A 1173 ANM

for CD range

Thermoplastic (breakproof) high-gloss

white	MA CD 1173 WW
-------	---------------

for LS range

Thermoplastic (breakproof) high-gloss

ivory	MA LS 1173
white	MA LS 1173 WW
light grey	MA LS 1173 LG
black	MA LS 1173 SW

matt lacquered

matt snow white	MA LS 1173 WWM
matt graphite black	MA LS 1173 SWM

metal versions

aluminium	MA AL 1173
stainless steel	MA ES 1173
anthracite (aluminium lacquered)	MA AL 1173 AN



Multimedia terminals



Ref.-no.

DVI

with supporting frame, screw fixing only

Consider bending radius and various plug types. Ensure sufficient installation space.

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	MA A 1193
white	MA A 1193 WW
black	MA A 1193 SW

Thermoplastic (breakproof) lacquered

aluminium	MA A 1193 AL
matt lacquered	
matt snow white	MA A 1193 WWM
matt graphite black	MA A 1193 SWM
matt anthracite	MA A 1193 ANM

for CD range

Thermoplastic (breakproof) high-gloss

white	MA CD 1193 WW
-------	---------------

for LS range

Thermoplastic (breakproof) high-gloss

ivory	MA LS 1193
white	MA LS 1193 WW
light grey	MA LS 1193 LG
black	MA LS 1193 SW

matt lacquered

matt snow white	MA LS 1193 WWM
matt graphite black	MA LS 1193 SWM

metal versions

aluminium	MA AL 1193
stainless steel	MA ES 1193
anthracite (aluminium lacquered)	MA AL 1193 AN

Ref.-no.

Adapter 1

(Spare part)

for multimedia terminals ref.-no. MA .. 1011 ..

MA 1000 AD 1

Adapter 2

(Spare part)

for multimedia terminals ref.-no. MA .. 1072 .., MA .. 1082 .., MA .. 1092 ..

MA 1000 AD 2

Adapter 3

(Spare part)

for multimedia terminals ref.-no. MA .. 1102 .., MA .. 1112 .., MA .. 1122 .., MA .. 1133 ..,
MA .. 1143 .., MA .. 1153 .., MA .. 1163 .., MA .. 1173 .., MA .. 1183 .., MA .. 1193 ..

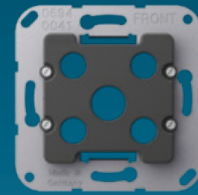
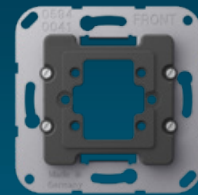
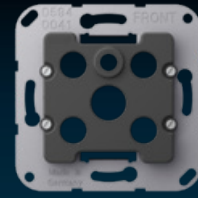
MA 1000 AD 3

Adapter 4

(Spare part)

for multimedia terminals ref.-no. MA .. 1021 .., MA .. 1031 .., MA .. 1051 ..

MA 1000 AD 4



SCHUKO® SOCKET



with USB-A in LS 990 in white

FRENCH / BELGIAN SYSTEM SOCKET



with USB-A+C in LS 990 in white

USB CHARGER



with USB-A+C in LS 990 in white

HIGHEST SAFETY STANDARDS



JUNG SCHUKO® sockets with USB port are tested and certified by VDE.

JUNG SCHUKO® sockets with USB ports quickly recharge smartphones or tablets, leaving the socket free. The versions with JUNG Quick Charge® have a USB-A or USB-C port and impress with a charging capacity of up to 18 watts. The sockets with two USB ports (type A and type C) provide

particular flexibility. Another option for quickly charging mobile devices are the USB chargers with USB type A and C ports and an electrical output of 15 watts. Due to their particularly flat and harmonious design they fit very well in multiple frames next to conventional sockets.

Numerous connection options

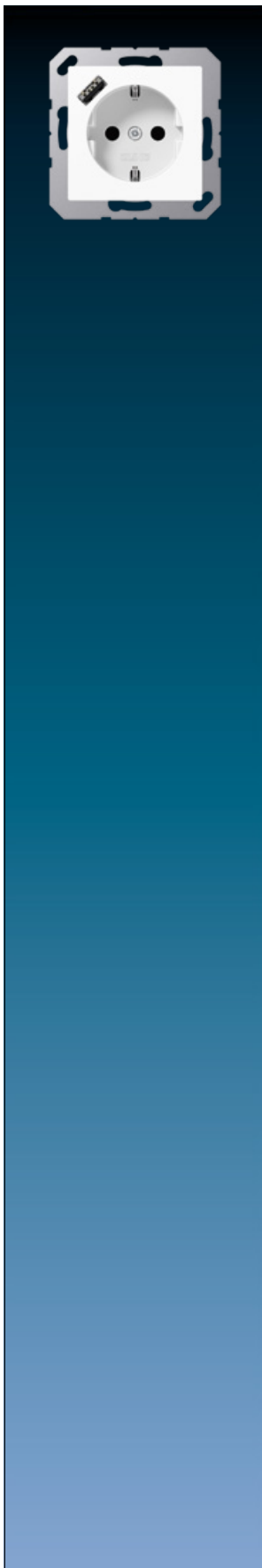


SCHUKO® SOCKET WITH USB-C

High charging capacity: JUNG Quick Charge® is the fast charging function in a single USB-A or USB-C port. Depending on the connected mobile device, JUNG Quick Charge® increases the voltage level to up to 9 volts.

Sockets with USB

AS and A ranges



Ref.-no.

**SCHUKO® socket with USB charger
with enhanced contact protection (shutter)**

with 1 USB port type A
with quick charge function
Screwless terminals for wires up to 2.5 mm²
Installation in flush box according to EN 60670-1
installation depth: 48 mm



Thermoplastic (breakproof) high-gloss

ivory	A 1520-18 A
white	A 1520-18 A WW
black	A 1520-18 A SW

Thermoplastic (breakproof) lacquered

aluminium	A 1520-18 A AL
champagne	A 1520-18 A CH
mocha	A 1520-18 A MO

matt lacquered

matt snow white	A 1520-18 A WWM
matt graphite black	A 1520-18 A SWM
matt anthracite	A 1520-18 A ANM

Technical data

Rated voltage:	AC 220 ... 250 V ~
Mains frequency:	50/60 Hz
Rated current, socket:	16 A
Output voltage USB:	DC 9 V / DC 5 V
Output current USB:	2 A / 3 A
Stand-by power:	≤ 60 mW
Ambient temperature:	+5 ... +35 °C
Storage/transport temperature:	-20 ... +70 °C
Installation depth:	48 mm
Protection level:	IP 20
Connection mode:	screwless connection
single wire:	1.5 ... 2.5 mm ²
stranded without ferrule:	1.5 ... 2.5 mm ²

Sockets with USB AS and A ranges

Ref.-no.

SCHUKO® socket with USB charger

with enhanced contact protection (shutter)

with 1 USB port type C

with quick charge function

Screwless terminals for wires up to 2.5 mm²

Installation in flush box according to EN 60670-1

installation depth: 48 mm



Thermoplastic (breakproof) high-gloss

ivory	A 1520-18 C
white	A 1520-18 C WW
black	A 1520-18 C SW

Thermoplastic (breakproof) lacquered

aluminium	A 1520-18 C AL
champagne	A 1520-18 C CH
mocha	A 1520-18 C MO

matt lacquered

matt snow white	A 1520-18 C WWM
matt graphite black	A 1520-18 C SWM
matt anthracite	A 1520-18 C ANM

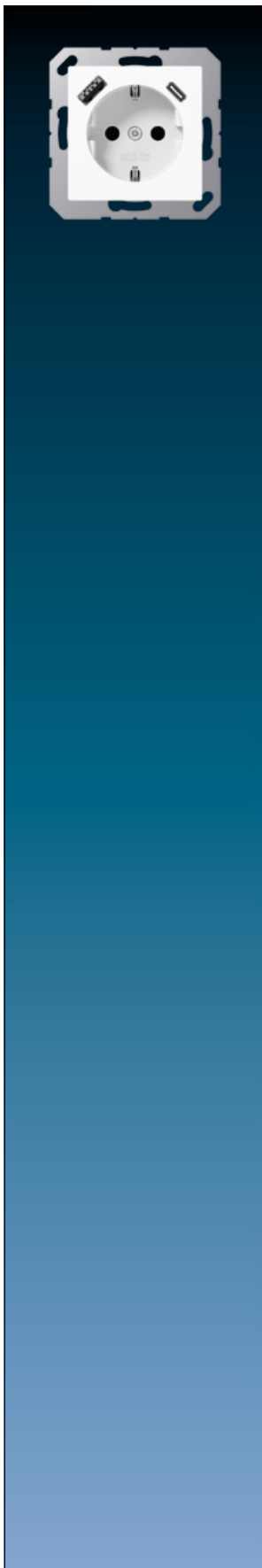
Technical data

Rated voltage:	AC 220 ... 250 V ~
Mains frequency:	50/60 Hz
Rated current, socket:	16 A
Output voltage USB:	DC 9 V / DC 5 V
Output current USB:	2 A / 3 A
Stand-by power:	≤ 25 mW
Ambient temperature:	+5 ... +35 °C
Storage/transport temperature:	-20 ... +70 °C
Installation depth:	48 mm
Protection level:	IP 20
Connection mode:	screwless connection
single wire:	1.5 ... 2.5 mm ²
stranded without ferrule:	1.5 ... 2.5 mm ²



Sockets with USB

AS and A ranges



Ref.-no.

**SCHUKO® socket with USB charger
with enhanced contact protection (shutter)**

with 1 USB port type A and 1 USB port type C
Screwless terminals for wires up to 2.5 mm²
Installation in flush box according to EN 60670-1
installation depth: 48 mm

Thermoplastic (breakproof) high-gloss

ivory	A 1520-15 CA
white	A 1520-15 CA WW
black	A 1520-15 CA SW

Thermoplastic (breakproof) lacquered

aluminium	A 1520-15 CA AL
champagne	A 1520-15 CA CH
mocha	A 1520-15 CA MO

matt lacquered

matt snow white	A 1520-15 CA WWM
matt graphite black	A 1520-15 CA SWM
matt anthracite	A 1520-15 CA ANM

Technical data

Rated voltage:	AC 220 ... 250 V ~
Mains frequency:	50/60 Hz
Rated current, socket:	16 A
Output voltage USB:	DC 5 V
Output current USB (total):	3 A
Stand-by power:	≤ 25 mW
Ambient temperature:	+5 ... +35 °C
Storage/transport temperature:	-20 ... +70 °C
Installation depth:	48 mm
Protection level:	IP 20
Connection mode:	screwless connection
single wire:	1.5 ... 2.5 mm ²
stranded without ferrule:	1.5 ... 2.5 mm ²

Sockets with USB AS and A ranges

Ref.-no.

Socket, French/Belgian system with USB charger

2-pole + male earth pin, 16 A / 250 V ~
with enhanced contact protection (shutter)
with 1 USB port type A
with quick charge function



Screwless terminals for wires up to 2.5 mm²
Installation in flush box according to EN 60670-1
installation depth: 48 mm

Thermoplastic (breakproof) high-gloss

white	A 1520 F-18 A WW
ivory	A 1520 F-18 A
black	A 1520 F-18 A SW

Thermoplastic (breakproof) lacquered

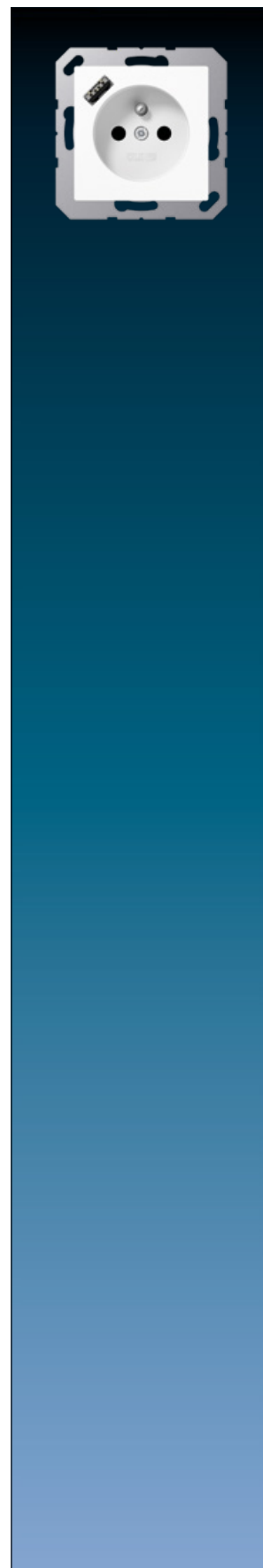
aluminium	A 1520 F-18 A AL
champagne	A 1520 F-18 A CH
mocha	A 1520 F-18 A MO

matt lacquered

matt graphite black	A 1520F-18 A SWM
matt snow white	A 1520F-18 A WWM
matt anthracite	A 1520F-18 A ANM

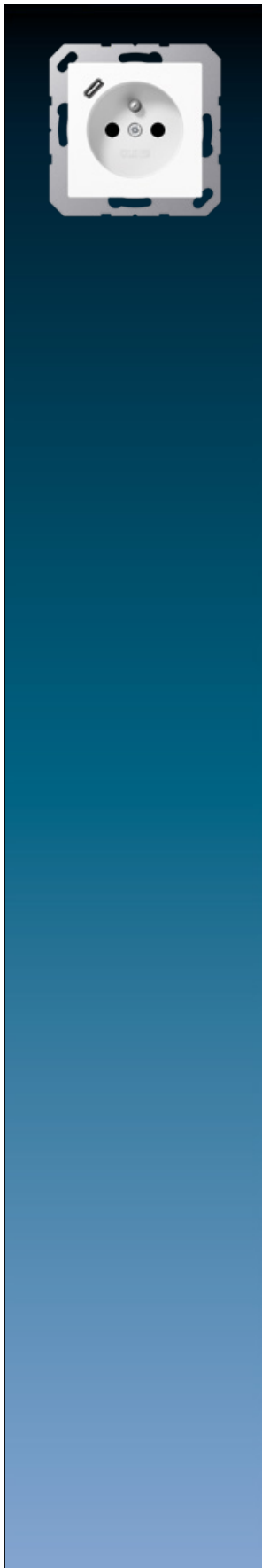
Technical data

Rated voltage:	AC 220 ... 250 V ~
Mains frequency:	50/60 Hz
Rated current, socket:	16 A
Output voltage USB:	DC 9 V / DC 5 V
Output current USB:	2 A / 3 A
Stand-by power:	≤ 60 mW
Ambient temperature:	+5 ... +35 °C
Storage/transport temperature:	-20 ... +70 °C
Installation depth:	48 mm
Protection level:	IP 20
Connection mode:	screwless connection
single wire:	1.5 ... 2.5 mm ²
stranded without ferrule:	1.5 ... 2.5 mm ²



Sockets with USB

AS and A ranges



Ref.-no.

Socket, French/Belgian system with USB charger

2-pole + male earth pin, 16 A / 250 V ~
with enhanced contact protection (shutter)
with 1 USB port type C
with quick charge function



Screwless terminals for wires up to 2.5 mm²
Installation in flush box according to EN 60670-1
installation depth: 48 mm

Thermoplastic (breakproof) high-gloss

ivory	A 1520 F-18 C
white	A 1520 F-18 C WW
black	A 1520 F-18 C SW

Duroplastic lacquered

aluminium	A 1520 F-18 C AL
champagne	A 1520 F-18 C CH
mocha	A 1520 F-18 C MO

matt lacquered

matt snow white	A 1520F-18 C WWM
matt graphite black	A 1520F-18 C SWM
matt anthracite	A 1520F-18 C ANM

Technical data

Rated voltage:	AC 220 ... 250 V ~
Mains frequency:	50/60 Hz
Rated current, socket:	16 A
Output voltage USB:	DC 9 V / DC 5 V
Output current USB:	2 A / 3 A
Stand-by power:	≤ 25 mW
Ambient temperature:	+5 ... +35 °C
Storage/transport temperature:	-20 ... +70 °C
Installation depth:	48 mm
Protection level:	IP 20
Connection mode:	screwless connection
single wire:	1.5 ... 2.5 mm ²
stranded without ferrule:	1.5 ... 2.5 mm ²

Sockets with USB AS and A ranges

Ref.-no.

Socket, French/Belgian system with USB charger

2-pole + male earth pin, 16 A / 250 V ~
with enhanced contact protection (shutter)
with 1 USB port type A and 1 USB port type C
Screwless terminals for wires up to 2.5 mm²
Installation in flush box according to EN 60670-1
installation depth: 48 mm

Thermoplastic (breakproof) high-gloss

ivory	A 1520 F-15 CA
white	A 1520 F-15 CA WW
black	A 1520 F-15 CA SW

Thermoplastic (breakproof) lacquered

aluminium	A 1520 F-15 CA AL
champagne	A 1520 F-15 CA CH
mocha	A 1520 F-15 CA MO

matt lacquered

matt snow white	A 1520F-15 CA WWM
matt graphite black	A 1520F-15 CA SWM
matt anthracite	A 1520F-15 CA ANM

Technical data

Rated voltage:	AC 220 ... 250 V ~
Mains frequency:	50/60 Hz
Rated current, socket:	16 A
Output voltage USB:	DC 5 V
Output current USB (total):	3 A
Stand-by power:	≤ 25 mW
Ambient temperature:	+5 ... +35 °C
Storage/transport temperature:	-20 ... +70 °C
Installation depth:	48 mm
Protection level:	IP 20
Connection mode:	screwless connection
single wire:	1.5 ... 2.5 mm ²
stranded without ferrule:	1.5 ... 2.5 mm ²



Sockets with USB

LS range



Ref.-no.

SCHUKO® socket with USB charger with enhanced contact protection (shutter)

with 1 USB port type A
with quick charge function
Screwless terminals for wires up to 2.5 mm²
Installation in flush box according to EN 60670-1
installation depth: 48 mm



Thermoplastic (breakproof) high-gloss

ivory	LS 1520-18 A
white	LS 1520-18 A WW
light grey	LS 1520-18 A LG
black	LS 1520-18 A SW

matt lacquered

matt snow white	LS 1520-18 A WWM
matt graphite black	LS 1520-18 A SWM

metal colours (thermoplastic lacquered)

aluminium (lacquered)	AL 1520-18 A-L
stainless steel (lacquered)	ES 1520-18 A-L
anthracite (lacquered)	AL 1520-18 A AN-L
dark (lacquered)	AL 1520-18 A D-L
classic brass (lacquered)	ME 1520-18 A C-L
antique brass (lacquered)	ME 1520-18 A AT-L

Technical data

Rated voltage:	AC 220 ... 250 V ~
Mains frequency:	50/60 Hz
Rated current, socket:	16 A
Output voltage USB:	DC 9 V / DC 5 V
Output current USB:	2 A / 3 A
Stand-by power:	≤ 60 mW
Ambient temperature:	+5 ... +35 °C
Storage/transport temperature:	-20 ... +70 °C
Installation depth:	48 mm
Protection level:	IP 20
Connection mode:	screwless connection
single wire:	1.5 ... 2.5 mm ²
stranded without ferrule:	1.5 ... 2.5 mm ²

Sockets with USB LS range

Ref.-no.

SCHUKO® socket with USB charger

with enhanced contact protection (shutter)

with 1 USB port type C

with quick charge function

Screwless terminals for wires up to 2.5 mm²

Installation in flush box according to EN 60670-1

installation depth: 48 mm

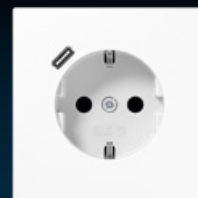


Thermoplastic (breakproof) high-gloss

ivory	LS 1520-18 C
white	LS 1520-18 C WW
light grey	LS 1520-18 C LG
black	LS 1520-18 C SW
matt lacquered	
matt snow white	LS 1520-18 C WWM
matt graphite black	LS 1520-18 C SWM
metal colours (thermoplastic lacquered)	
aluminium (lacquered)	AL 1520-18 C-L
stainless steel (lacquered)	ES 1520-18 C-L
anthracite (lacquered)	AL 1520-18 C AN-L
dark (lacquered)	AL 1520-18 C D-L
classic brass (lacquered)	ME 1520-18 C C-L
antique brass (lacquered)	ME 1520-18 C AT-L

Technical data

Rated voltage:	AC 220 ... 250 V ~
Mains frequency:	50/60 Hz
Rated current, socket:	16 A
Output voltage USB:	DC 9 V / DC 5 V
Output current USB:	2 A / 3 A
Stand-by power:	≤ 25 mW
Ambient temperature:	+5 ... +35 °C
Storage/transport temperature:	-20 ... +70 °C
Installation depth:	48 mm
Protection level:	IP 20
Connection mode:	screwless connection
single wire:	1.5 ... 2.5 mm ²
stranded without ferrule:	1.5 ... 2.5 mm ²



Sockets with USB

LS range



Ref.-no.

**SCHUKO® socket with USB charger
with enhanced contact protection (shutter)**

with 1 USB port type A and 1 USB port type C
Screwless terminals for wires up to 2.5 mm²
Installation in flush box according to EN 60670-1
installation depth: 48 mm

Thermoplastic (breakproof) high-gloss

ivory	LS 1520-15 CA
white	LS 1520-15 CA WW
light grey	LS 1520-15 CA LG
black	LS 1520-15 CA SW

matt lacquered

matt snow white	LS 1520-15 CA WWM
matt graphite black	LS 1520-15 CA SWM

metal colours (thermoplastic lacquered)

aluminium (lacquered)	AL 1520-15 CA-L
stainless steel (lacquered)	ES 1520-15 CA-L
anthracite (lacquered)	AL 1520-15 CA AN-L
dark (lacquered)	AL 1520-15 CA D-L
classic brass (lacquered)	ME 1520-15 CA C-L
antique brass (lacquered)	ME 1520-15 CA AT-L

Technical data

Rated voltage:	AC 220 ... 250 V ~
Mains frequency:	50/60 Hz
Rated current, socket:	16 A
Output voltage USB:	DC 5 V
Output current USB (total):	3 A
Stand-by power:	≤ 25 mW
Ambient temperature:	+5 ... +35 °C
Storage/transport temperature:	-20 ... +70 °C
Installation depth:	48 mm
Protection level:	IP 20
Connection mode:	screwless connection
single wire:	1.5 ... 2.5 mm ²
stranded without ferrule:	1.5 ... 2.5 mm ²

Sockets with USB LS range

Ref.-no.

Socket, French/Belgian system with USB charger

2-pole + male earth pin, 16 A / 250 V ~

with enhanced contact protection (shutter)

with 1 USB port type A

with quick charge function

Screwless terminals for wires up to 2.5 mm²

Installation in flush box according to EN 60670-1

installation depth: 48 mm



Thermoplastic (breakproof) high-gloss

ivory	LS 1520 F-18 A
white	LS 1520 F-18 A WW
light grey	LS 1520 F-18 A LG
black	LS 1520 F-18 A SW

matt lacquered

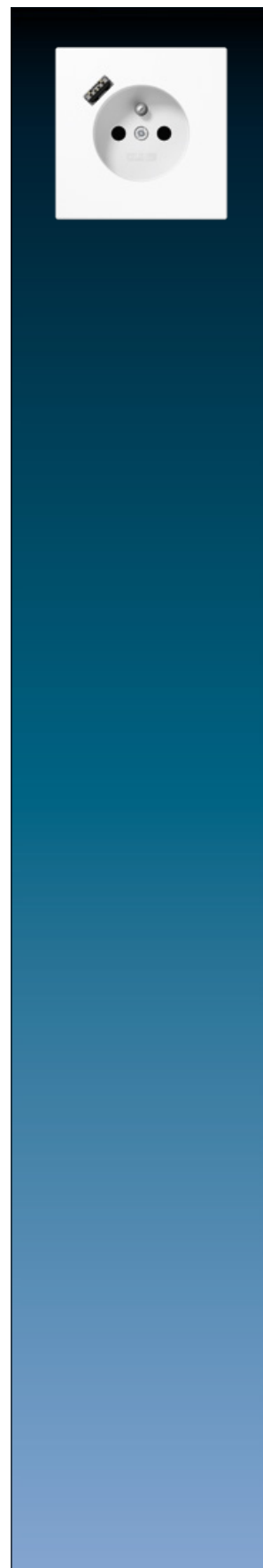
matt snow white	LS 1520 F-18 A WWM
matt graphite black	LS 1520 F-18 A SWM

metal colours (thermoplastic lacquered)

aluminium (lacquered)	AL 1520 F-18 A-L
stainless steel (lacquered)	ES 1520 F-18 A-L
anthracite (lacquered)	AL 1520 F-18 A AN-L
dark (lacquered)	AL 1520 F-18 A D-L
classic brass (lacquered)	ME 1520 F-18 A C-L
antique brass (lacquered)	ME 1520 F-18 A AT-L

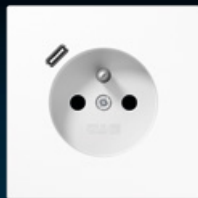
Technical data

Rated voltage:	AC 220 ... 250 V ~
Mains frequency:	50/60 Hz
Rated current, socket:	16 A
Output voltage USB:	DC 9 V / DC 5 V
Output current USB:	2 A / 3 A
Stand-by power:	≤ 60 mW
Ambient temperature:	+5 ... +35 °C
Storage/transport temperature:	-20 ... +70 °C
Installation depth:	48 mm
Protection level:	IP 20
Connection mode:	screwless connection
single wire:	1.5 ... 2.5 mm ²
stranded without ferrule:	1.5 ... 2.5 mm ²



Sockets with USB

LS range



Ref.-no.

Socket, French/Belgian system with USB charger

with enhanced contact protection (shutter)

with 1 USB port type C

with quick charge function



Screwless terminals for wires up to 2.5 mm²

Installation in flush box according to EN 60670-1

2-pole + male earth pin, 16 A / 250 V ~

installation depth: 48 mm

Thermoplastic (breakproof) high-gloss

ivory	LS 1520 F-18 C
white	LS 1520 F-18 C WW
light grey	LS 1520 F-18 C LG
black	LS 1520 F-18 C SW

matt lacquered

matt snow white	LS 1520 F-18 C WWM
matt graphite black	LS 1520 F-18 C SWM

metal colours (thermoplastic lacquered)

aluminium (lacquered)	AL 1520 F-18 C-L
stainless steel (lacquered)	ES 1520 F-18 C-L
anthracite (lacquered)	AL 1520 F-18 C AN-L
dark (lacquered)	AL 1520 F-18 C D-L
classic brass (lacquered)	ME 1520 F-18 C C-L
antique brass (lacquered)	ME 1520 F-18 C AT-L

Technical data

Rated voltage:	AC 220 ... 250 V ~
Mains frequency:	50/60 Hz
Rated current, socket:	16 A
Output voltage USB:	DC 9 V / DC 5 V
Output current USB:	2 A / 3 A
Stand-by power:	≤ 25 mW
Ambient temperature:	+5 ... +35 °C
Storage/transport temperature:	-20 ... +70 °C
Installation depth:	48 mm
Protection level:	IP 20
Connection mode:	screwless connection
single wire:	1.5 ... 2.5 mm ²
stranded without ferrule:	1.5 ... 2.5 mm ²

Sockets with USB LS range

Ref.-no.

Socket, French/Belgian system with USB charger

2-pole + male earth pin, 16 A / 250 V ~
with enhanced contact protection (shutter)
with 1 USB port type A and 1 USB port type C
Screwless terminals for wires up to 2.5 mm²
Installation in flush box according to EN 60670-1
installation depth: 48 mm

Thermoplastic (breakproof) high-gloss

ivory	LS 1520 F-15 CA
white	LS 1520 F-15 CA WW
light grey	LS 1520 F-15 CA LG
black	LS 1520 F-15 CA SW

matt lacquered

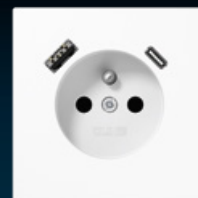
matt snow white	LS 1520 F-15 CA WWM
matt graphite black	LS 1520 F-15 CA SWM

metal colours (thermoplastic lacquered)

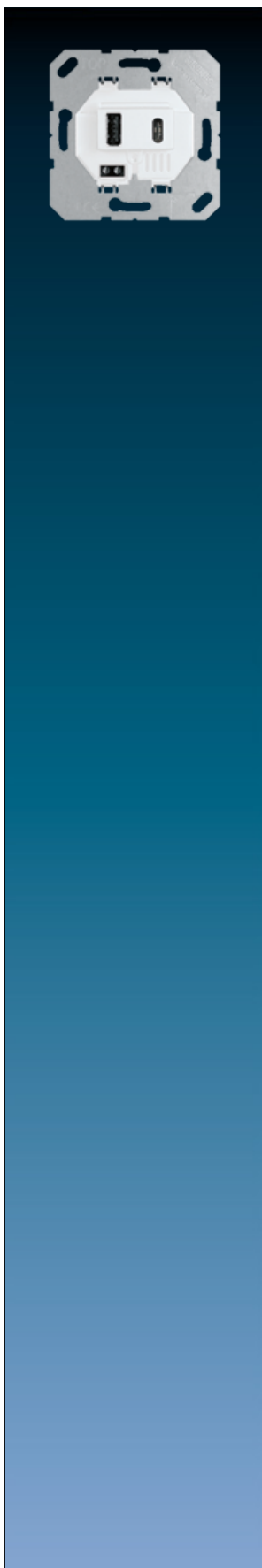
aluminium (lacquered)	AL 1520 F-15 CA-L
stainless steel (lacquered)	ES 1520 F-15 CA-L
anthracite (lacquered)	AL 1520 F-15 CA AN-L
dark (lacquered)	AL 1520 F-15 CA D-L
classic brass (lacquered)	ME 1520 F-15 CA C-L
antique brass (lacquered)	ME 1520 F-15 CA AT-L

Technical data

Rated voltage:	AC 220 ... 250 V ~
Mains frequency:	50/60 Hz
Rated current, socket:	16 A
Output voltage USB:	DC 5 V
Output current USB (total):	3 A
Stand-by power:	≤ 25 mW
Ambient temperature:	+5 ... +35 °C
Storage/transport temperature:	-20 ... +70 °C
Installation depth:	48 mm
Protection level:	IP 20
Connection mode:	screwless connection
single wire:	1.5 ... 2.5 mm ²
stranded without ferrule:	1.5 ... 2.5 mm ²



USB charger



Ref.-no.

USB charger

with 1 USB port type A and 1 USB port type C
screw fixing only, without claws

white

USB 15 CA WW

black

USB 15 CA SW

Intended use

- Battery charging station for mobile devices with USB connection
- Installation in flush box according to EN 60670-1

Product characteristics

- Simultaneous charging of 2 devices possible
- Installation into multiple frame with other devices possible
- Charging current: max. 3000 mA

Technical data

Input voltage:	AC 100 ... 240 V ~ ± 10 %
Mains frequency:	50/60 Hz
Ambient temperature:	0 ... +35 °C
Storage/transport temperature:	-20 ... +70 °C
Stand-by power consumption	
at $U_{IN} = 230\text{ V} \sim$:	≤ 0.1 W
Connection mode:	screw terminals
Output voltage:	DC 5 V (± 5 %)
Output current	
AC 120 ... 240 V ~	max. 3000 mA
AC 90 ... 108 V ~	max. 2500 mA

Ref.-no.

Centre plate

for USB charger ref.-no.: USB 15 CA WW, USB 15 CA SW

for AS range

Thermoplastic (breakproof) high-gloss




ivory	 A 1569 USB
white	 A 1569 USB WW

for A range

Thermoplastic (breakproof) high-gloss

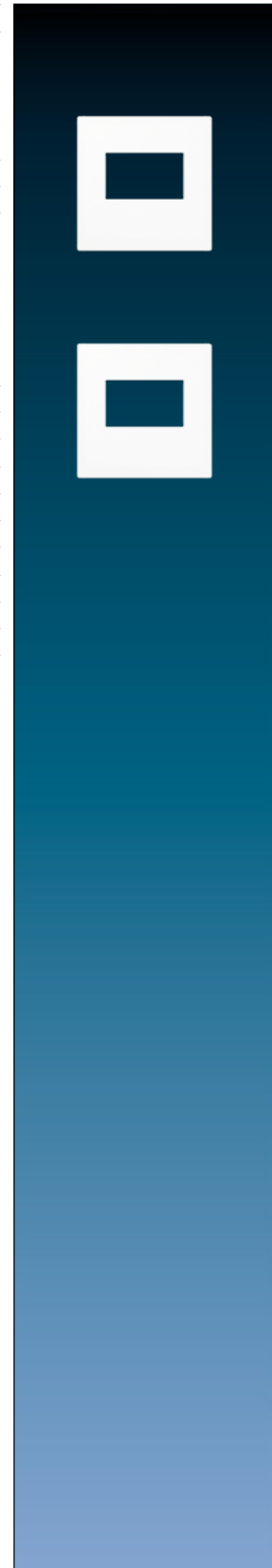
white	 A 1569 USB WW
black	 A 1569 USB SW

Thermoplastic (breakproof) lacquered

aluminium	  A 1569 USB AL
champagne	 A 1569 USB CH
mocha	A 1569 USB MO

matt lacquered

matt snow white	A 1569 USB WWM
matt graphite black	A 1569 USB SWM
matt anthracite	A 1569 USB ANM



USB charger



Ref.-no.

Centre plate

for USB charger ref.-no.: USB 15 CA WW, USB 15 CA SW

for CD range

Thermoplastic (breakproof) high-gloss

ivory	569 T
white	CD 569 T WW
brown	CD 569 T BR
grey	CD 569 T GR
light grey	CD 569 T LG
black	CD 569 T SW

metal versions (anodized aluminium)

gold-bronze	CD 569 T GB
platinum	CD 569 T PT

for SL range

white	SL 569 T WW
gold-bronze	SL 569 T GB
black	SL 569 T SW

for LS range

Thermoplastic (breakproof) high-gloss

ivory	LS 1969 USB
white	LS 1969 USB WW
light grey	LS 1969 USB LG
black	LS 1969 USB SW

matt lacquered

matt snow white	LS 1969 USB WWM
matt graphite black	LS 1969 USB SWM

metal versions

aluminium	AL 1969 USB
stainless steel	ES 1969 USB
anthracite (aluminium lacquered)	AL 1969 USB AN
dark (aluminium lacquered)	AL 1969 USB D
classic brass	ME 1969 USB C
antique brass	ME 1969 USB AT

Ref.-no.

Hinged lid

with symbol "charger"

for USB charger ref.-no.: USB 15 CA WW, USB 15 CA SW
including centre plate

for CD range

Thermoplastic (breakproof) high-gloss

ivory	CD 590 KL USB
white	CD 590 KL USB WW
brown	CD 590 KL USB BR
grey	CD 590 KL USB GR
light grey	CD 590 KL USB LG
black	CD 590 KL USB SW

metal versions (anodized aluminium)

gold-bronze	CD 590 KL USB GB
platinum	CD 590 KL USB PT

for LS range

with spring

Thermoplastic (breakproof) high-gloss

ivory	LS 990 BFKL USB
white	LS 990 BFKL USB WW
light grey	LS 990 BFKL USB LG
black	LS 990 BFKL USB SW

metal versions

aluminium	AL 2990 KL USB
stainless steel	ES 2990 KL USB
anthracite (aluminium lacquered)	AL 2990 KL USB AN
dark (aluminium lacquered)	AL 2990 KL USB D
classic brass	ME 2990 KL USB C
antique brass	ME 2990 KL USB AT



Smart Radio DAB+ and DAB+ Bluetooth



Highest sound quality: digital radio in the switch design with real glass front and sensor buttons – also with Bluetooth streaming on request.



Smart Radio DAB+ in LS 990 black with stainless steel frame, mono version.



Smart Radio DAB+ Bluetooth with two loudspeakers in separate mounting. LS 990 design in white with chrome frame.

The Smart Radio DAB+ is impressive with its digital sound experience and best reception quality. Up to eight DAB+ favourites and eight USW favourites can be saved and retrieved via shortcut. The version with Bluetooth function also allows up to eight Bluetooth audio sources

to be stored and played back – this means radio and streaming functions in a single compact device. Display and button brightness can be adjusted in both versions and are completely darkened in night mode.

Smart Radio DAB+

Smart Radio DAB+

for installation in single or multiple frames and surface caps

Intended use

- DAB reception in the frequency range 174 MHz to 240 MHz (VHF band III and channel 13)
- FM reception in the frequency range 87.5 MHz to 108 MHz (VHF band II)
- Installation in flush box according to EN 60670-1 (recommendation: deep box)

Product characteristics

- Digital radio with display and sensor buttons
- Real glass front panel
- Stereo reception
- Connection terminals for two loudspeakers
- Stereo/mono switch-over
- Simple operation
- Integrated antenna for DAB+ and FM
- High reception quality
- Automatic station scan
- Storage of 8 favourites DAB+ and 8 favourites FM (will be retained after power failure)
- Switch-on with last station
- Switch-on with last volume
- Switch-on with last operation mode (DAB+ or FM)
- Display of station information, time and current settings
- Current time via RDS and DAB+
- Brightness level of display can be adjusted
- Night mode
- Alarm function
- Sleep mode
- Switching on/off via extension unit
- Line-out output (AUX) to connect external amplifiers
- Optional external cable antenna ref.-no.: RAD-ANT

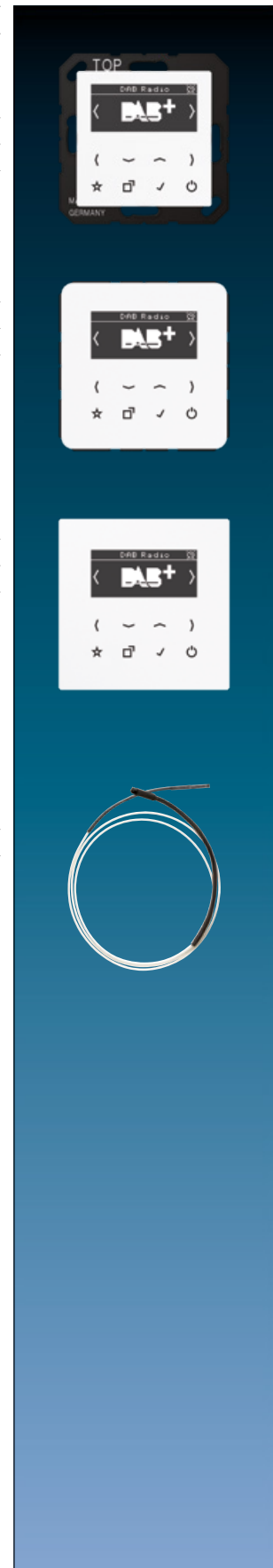
Satellite function

The radio is equipped with a satellite input to connect an external switch.

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50/60 Hz
Connection:	screw terminals
Terminals for:	1 x 2.5 mm ² or 1 x 1.5 mm ²
Power consumption stand-by:	< 1 W
Power consumption during operation:	< 4 W
Temperature range:	0 ... +50 °C
Atmospheric humidity:	15 ... 90 % (no condensation)
DAB frequency range:	174 ... 240 MHz
FM frequency range:	87.5 ... 108 MHz
Separate loudspeaker connection cable:	Twin loudspeaker cable H03VH-H, 2 x 0.75 mm Alternative: J-Y(St)Y 2 x 2 x 0.6 mm
Length of connected cable:	max. 5 m

	Ref.-no.
Smart Radio DAB+	
for AS and A ranges	
white	DAB A WW
black	DAB A SW
for CD range	
white	DAB CD WW
black	DAB CD SW
for LS range	
white	DAB LS WW
black	DAB LS SW
External cable antenna	
for connection to the Smart Radio DAB+ ref.-no. DAB .. and DAB .. BT ..	
	RAD-ANT



Smart Radio DAB+



Ref.-no.

Power supply

for the Smart Radio DAB+ ref.-no. DAB .. and DAB .. BT ..
(Spare part)

NT-AUDIO

Display

for the Smart Radio DAB+ ref.-no. DAB ..
(Spare part)

for AS and A ranges

white

DAB A-DISP WW

black

DAB A-DISP SW

for CD range

white

DAB CD-DISP WW

black

DAB CD-DISP SW

for LS range

white

DAB LS-DISP WW

black

DAB LS-DISP SW

Ref.-no.

Smart Radio DAB+, mono set

including power supply
with one loudspeaker

**for AS and A ranges
with white display**

loudspeaker white

DAB A1 WW

for CD range

with white display

loudspeaker white

DAB CD1 WW

for LS range

with white display

loudspeaker white

DAB LS1 WW

with black display

loudspeaker black

DAB LS1 SW

loudspeaker aluminium

DAB AL1

loudspeaker stainless steel

DAB ES1



Smart Radio DAB+

Ref.-no.

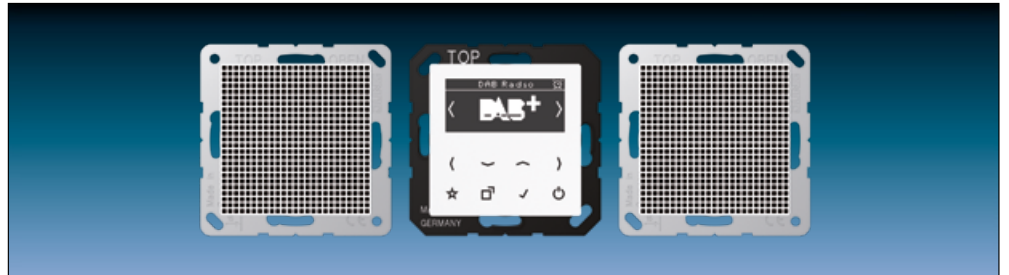
Smart Radio DAB+, stereo set

including power supply
with two loudspeakers

**for AS and A ranges
with white display**

loudspeaker white

DAB A2 WW



**for CD range
with white display**

loudspeaker white

DAB CD2 WW



**for LS range
with white display**

loudspeaker white

DAB LS2 WW

with black display

loudspeaker black

DAB LS2 SW

loudspeaker aluminium

DAB AL2

loudspeaker stainless steel

DAB ES2



Smart Radio DAB+ Bluetooth

for installation in single or multiple frames and surface caps

Intended use

- DAB reception in the frequency range 174 MHz to 240 MHz (VHF band III and channel 13)
- FM reception in the frequency range 87.5 MHz to 108 MHz (VHF band II)
- Playback and control of music on mobile devices via Bluetooth
- Installation in flush box according to EN 60670-1 (recommendation: deep box)

Product characteristics

- Digital radio with display and sensor buttons
- Real glass front panel
- Stereo reception
- Connection terminals for two loudspeakers
- Stereo/mono switch-over
- Simple operation
- Integrated antenna for DAB+ and FM
- High reception quality
- Automatic station scan
- Storage of 8 favourites DAB+ and 8 favourites FM (will be retained after power failure)
- Storage of 8 Bluetooth audio sources
- Bluetooth device name can be changed
- Switch-on with last station
- Switch-on with last volume
- Switch-on with last operation mode (DAB+, FM or Bluetooth)
- Display of station information, time and current settings
- Current time via RDS and DAB+
- Brightness level of display can be adjusted
- Night mode
- Alarm function
- Sleep mode
- Switching on/off via extension unit
- Line-out output (AUX) to connect external amplifiers
- Optional external cable antenna ref.-no.: RAD-ANT

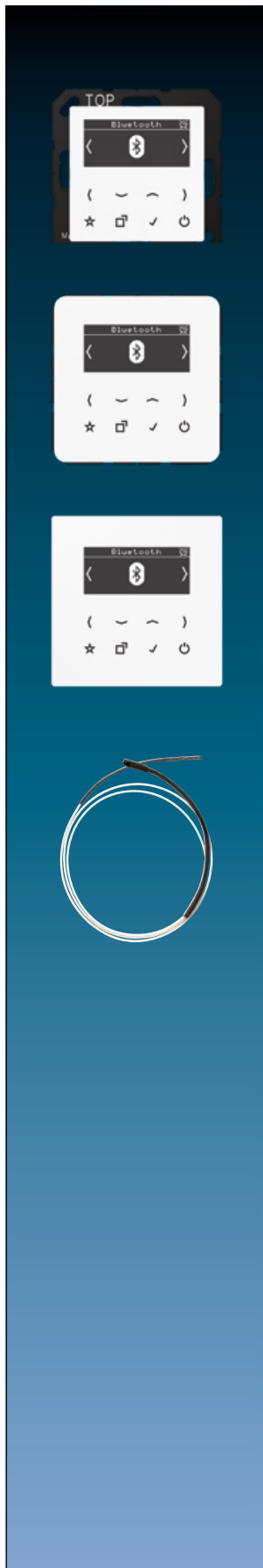
Satellite function

The radio is equipped with a satellite input to connect an external switch.

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50/60 Hz
Connection:	screw terminals
Terminals for:	1 x 2.5 mm ² or 1 x 1.5 mm ²
Power consumption stand-by:	< 1 W
Power consumption during operation:	< 4 W
Temperature range:	0 ... +50 °C
Atmospheric humidity:	15 ... 90 % (no condensation)
DAB frequency range:	174 ... 240 MHz
FM frequency range:	87.5 ... 108 MHz
Bluetooth:	A2DP, AVRCP
Radio frequency:	2.402 ... 2.480 GHz
Transmitting power:	< 4 dBm
Separate loudspeaker connection cable:	Twin loudspeaker cable H03VH-H, 2 x 0.75 mm Alternative: J-Y(St)Y 2 x 2 x 0.6 mm
Length of connected cable:	max. 5 m

Smart Radio DAB+ Bluetooth



Ref.-no.

Smart Radio DAB+ Bluetooth

for AS and A ranges

white

DAB A BT WW

black

DAB A BT SW

for CD range

white

DAB CD BT WW

black

DAB CD BT SW

for LS range

white

DAB LS BT WW

black

DAB LS BT SW

External cable antenna

for connection to the Smart Radio DAB+ ref.-no. DAB .. and DAB .. BT ..

RAD-ANT

Smart Radio DAB+ Bluetooth

Ref.-no.

Power supply

for the Smart Radio DAB+ ref.-no. DAB .. and DAB .. BT ..
(Spare part)

NT-AUDIO

Display

for the Smart Radio DAB+ Bluetooth ref.-no. DAB .. BT ..
(Spare part)

for AS and A ranges

white

DAB A BT-DISP WW

black

DAB A BT-DISP SW

for CD range

white

DAB CD BT-DISP WW

black

DAB CD BT-DISP SW

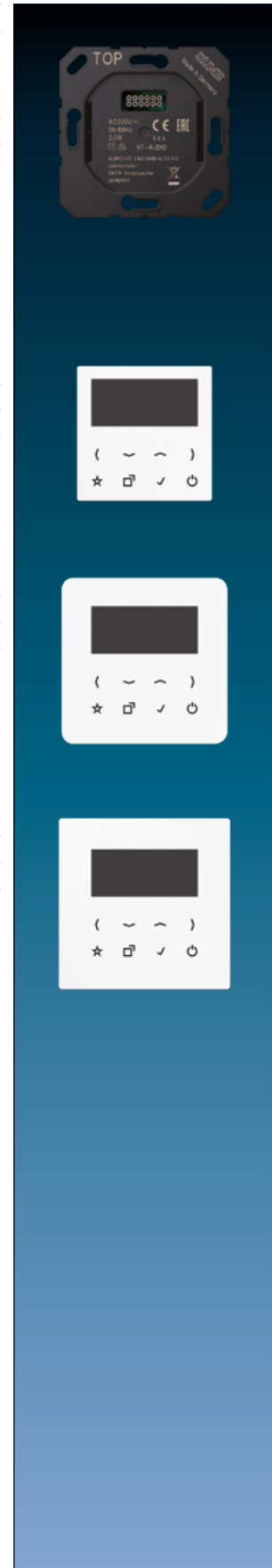
for LS range

white

DAB LS BT-DISP WW

black

DAB LS BT-DISP SW



Smart Radio DAB+ Bluetooth



Ref.-no.

Smart Radio DAB+ Bluetooth, mono set

including power supply
with one loudspeaker

**for AS and A ranges
with white display**

loudspeaker white

DAB A1 BT WW

for CD range

with white display

loudspeaker white

DAB CD1 BT WW

for LS range

with white display

loudspeaker white

DAB LS1 BT WW

with black display

loudspeaker black

DAB LS1 BT SW

loudspeaker aluminium

DAB AL1 BT

loudspeaker stainless steel

DAB ES1 BT

Smart Radio DAB+ Bluetooth

Ref.-no.

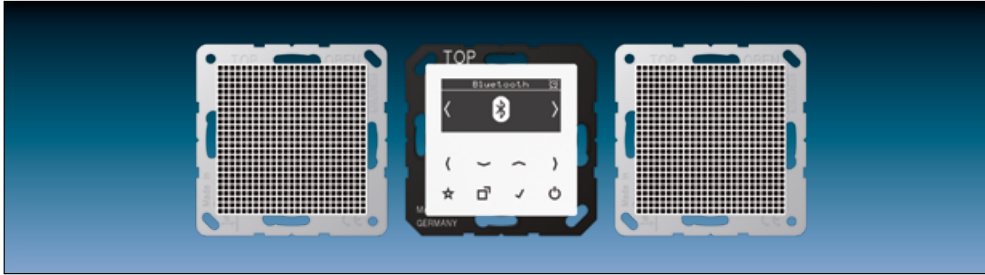
Smart Radio DAB+ Bluetooth, stereo set

including power supply
with two loudspeakers

for AS and A ranges
with white display

loudspeaker white

DAB A2 BT WW



for CD range

with white display

loudspeaker white

DAB CD2 BT WW



for LS range

with white display

loudspeaker white

DAB LS2 BT WW

with black display

loudspeaker black

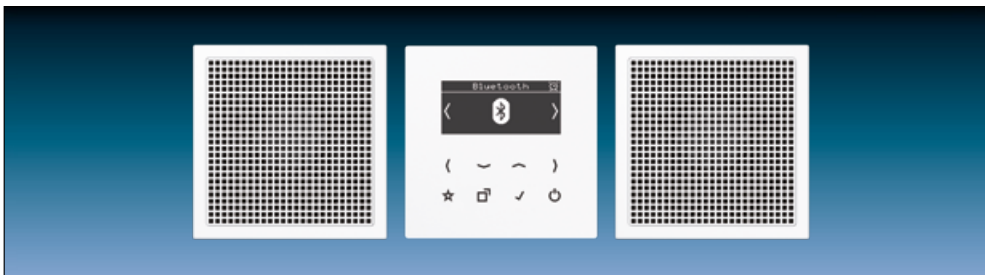
DAB LS2 BT SW

loudspeaker aluminium

DAB AL2 BT

loudspeaker stainless steel

DAB ES2 BT



Loudspeaker module

Ref.-no.

Loudspeaker module

for connection to the Smart Radio DAB+ ref.-no. DAB .. and DAB .. BT ..
high-quality tone and great loudspeaker dynamics
optimised acoustics through the use of a bass-reflex enclosure

Technical data

Rated nominal power:	approx. 2.5 W
Impedance:	4 Ω
Frequency range:	120 ... 15 000 Hz (-10 dB)
Relative humidity:	max. 95 %
Storage/transport temperature:	-25 ... +60 °C
Connection:	screw terminals
Terminals for:	1.5 mm ²

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	LSM A 4
white	LSM A 4 WW
black	LSM A 4 SW

Thermoplastic (breakproof) lacquered

aluminium	LSM A 4 AL
champagne	LSM A 4 CH
mocha	LSM A 4 MO

matt lacquered

matt snow white	LSM A 4 WWM
matt graphite black	LSM A 4 SWM
matt anthracite	LSM A 4 ANM

for CD range

Thermoplastic (breakproof) high-gloss

ivory	LSM CD 4
white	LSM CD 4 WW
grey	LSM CD 4 GR
light grey	LSM CD 4 LG
black	LSM CD 4 SW

for LS range

Thermoplastic (breakproof) high-gloss

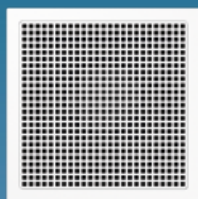
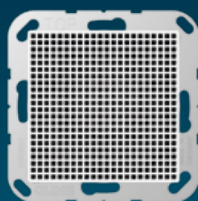
ivory	LSM LS 4
white	LSM LS 4 WW
light grey	LSM LS 4 LG
black	LSM LS 4 SW

matt lacquered

matt snow white	LSM LS 4 WWM
matt graphite black	LSM LS 4 SWM

metal versions

aluminium	LSM AL 4
stainless steel	LSM ES 4
anthracite (aluminium lacquered)	LSM AL 4 AN
dark (aluminium lacquered)	LSM AL 4 D

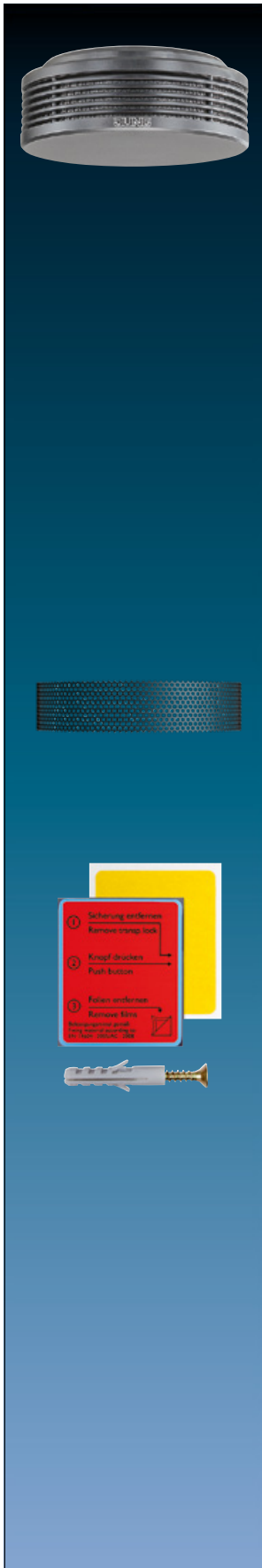


Smoke alarm system



Whether classic stand-alone solution or networked by radio: JUNG smoke alarm devices have been reliably raising the alarm for smoke and heat development for many years. The integrated lithium battery has a service life of more than 10 years. All JUNG smoke alarm devices can be installed quickly and without dirt thanks to the certified magnet / adhesive system.

Smoke alarm device



Ref.-no.

Smoke alarm device

black

RWM 200 SW

Intended use

- Detection of smoke and heat in private households and inhabited properties
- Smoke alarm device for indoor use
- Installation in inhabitable recreation vehicles (e.g. caravans) possible

Product characteristics

- Replaceable insect screen
- Lithium battery with protective passivation
- 12 years battery life
- Bi-sensor processor technology (smoke + heat)
- Real alarm with maximum precision
- Qualified for kitchens
- 88 dB alarm signal at 3 m distance
- Dimensions (Ø x H): 10 x 3.8 cm
- Detection range: up to 60 m² (depending on installation location)
- Optimum storing temperature: +10 ... +35 °C, <70 % relative humidity
- Large user-friendly test/stop button (78 cm²)
- Magnetic mount for adhesive fixing or screw fixing
- Complies with the increased requirements vfdb Directive 14-01
- CE according to EN 14604:2005/AC:2008
- TÜV Nord Cert (Kriwan no. 1772-CPR-150500)

Insect screen

Set of 48 insect screens and 96 seals

(Spare part)

for smoke alarm devices ref.-no.: .. RWM 200 ..

RWM 200-G

Magnet holder set

(Spare part)

for smoke alarm devices ref.-no.: .. RWM ..

RWM-MTS

Radio smoke alarm device

Ref.-no.

Radio smoke alarm device

white

FRWM 200 WW

black

FRWM 200 SW

Intended use

- Detection of smoke and heat in private households and inhabited properties
- Smoke alarm device for indoor use
- Installation in inhabitable recreation vehicles (e.g. caravans) possible

Product characteristics

- Radio connectivity
- Frequency: 868.3 MHz
- Data encryption: AES-256
- Max. number of devices per group: 15
- Community group (stair case): assignment of up to 14 groups (apartments)
- Radio range: 400 m, $\pm 10\%$ (free field)
- Repeater function
- Replaceable insect screen
- Lithium battery with protective passivation
- 10 years battery life
- Bi-sensor processor technology (smoke + heat)
- Real alarm with maximum precision
- Qualified for kitchens
- 88 dB alarm signal at 3 m distance
- Dimensions (\varnothing x H): 10 x 3.8 cm
- Detection range: up to 60 m² (depending on installation location)
- Optimum storing temperature: +10 ... +35 °C, <70 % relative humidity
- Large user-friendly test/stop button (78 cm²)
- Magnetic mount for adhesive fixing or screw fixing
- Complies with the increased requirements vfdb Directive 14-01
- CE according to EN 14604:2005/AC:2008

Alarm relay with floating input

for interconnected radio smoke alarm devices ref.-no.: FRWM ..

FRWM-AR

Intended use

- Wireless integration into group of radio smoke alarm devices
- Relay output to trigger acoustical or optical signals, ventilation systems, blind systems etc. in case of an alarm in the radio group
- Floating input for manual triggering of an alarm in the radio group via switch

Product characteristics

- Battery-powered device
- Battery life up to 10 years (lithium battery)
- Frequency: 868.3 MHz
- Data encryption: AES-256
- Buzzer alarm
- Status LED
- Radio range: approx. 400 m (free field)
- Floating alarm input, max. 30 V, switching threshold approx. 6 V
- Alarm output: relay (2-way), 3 ... 30 V, 1 ... 100 mA
- Dimensions approx. 54 x 54 x 22 mm



Observers



The observers are impressive in their performance and functionality. In outdoor applications, they provide the optimum solution for almost all applications.

Not suitable for alarm systems!

Mounting height: 2.40 m

	Ref.-no.
Observer 220° with digital signal evaluation	
white	W 220 WW

Intended use

- Automatic switching of lighting depending on the thermal movement and ambient brightness
- Surface-mounting in indoor and outdoor areas

Product characteristics

- Digital signal evaluation
- Protected against spray water
- Run-on time adjustable
- Sensitivity selectable
- Brightness value can be set
- Test operation for checking the detection area
- Switch light ON or OFF for 4 hours
- Short-time operation to control signal encoders
- Sensor head adjustable in 2 axes
- Self-adhesive cover plate elements for limiting the detection area
- High protection against ambient light
- 580 switching segments in 4 layers
- Separate protection against crawling under
- Parallel connection of multiple motion detectors possible
- Manual switch-on possible with installation button, NC contact

Important: Energy saving lamps cause high inrush currents which may cause the switch contact to get stuck. Then a reduction of capacity is required! Please check suitability of lamps before installation.

Delay time limitation: Once the detector has switched on, the brightness is no longer evaluated.

To prevent the light from remaining permanently on (e.g. beyond dawn) caused by permanent movements, the device is provided with an intelligent limiting function.

The delay time (time the light remains on after detection of the last movement) is selected depending on the real switch-on time:

Switch-on time (approx.) / Delay time (approx.)

up to 60 min / depending on setting

up to 70 min / 4 min

up to 75 min / 2 min

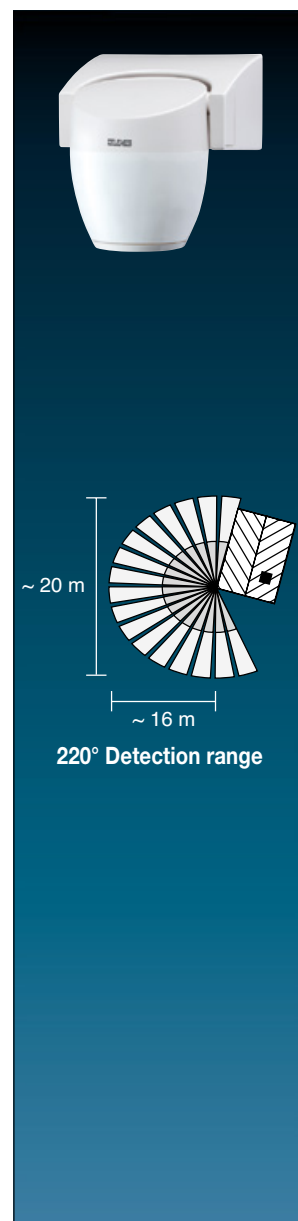
up to 80 min / 1 min

up to 85 min / 30 sec

up to 90 min / 15 sec

90 min / switching-off

The detector switches off after 90 minutes, at the latest, even if there are still movements in the detection field. Restarting will only be effected if the ambient brightness drops below the preset brightness level and if a movement is detected in the detection field.



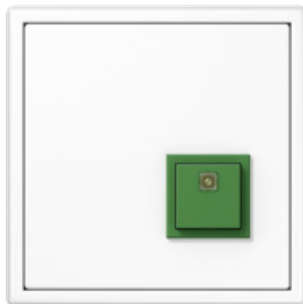
Technical data

Nominal range:	approx. 16 m	Sensitivity:	approx. 20 ... 100 %, continuously adjustable
Mounting height:	approx. 2.4 m	Protection level:	IP 55
Detection range:	approx. 220°, with separate undercrawling protection	Terminals:	L, N, μ (relay) wiring up to 2.5 mm ²
Rated voltage:	AC 230 V ~, 50/60 Hz	Switching capacity	
Switch contact:	relay, mains potential	Incandescent lamps:	2300 W
Switch-on current:	max. 20 A	HV halogen lamps:	2300 W
Circuit breaker:	16 A	LV halogen lamps with electronic transformers:	1200 W
Power consumption:	approx. 1.1 W	inductive transformers:	1200 W
Temperature range:	-20 ... +55 °C	Operate inductive transformers with at least 85 % nominal load.	
Shut-off delay:	2 s ... 30 min, continuously adjustable short-time pulse 0.5 s	Fluorescent lamps	
Brightness sensor:	Daytime and night-time operation approx. 1 ... 1,000 lx, continuously adjustable	non-compensated:	1200 W
		parallel compensated:	920 W
		lead-lag circuit:	2300 W



EMERGENCY SIGNAL

The emergency signal can e.g. be installed outside next to the WC door or landing door. A triggered emergency call is signalled visually by a red LED and acoustically by a buzzer, 90 dB(A). Both signals can, if required, be changed from continuous light/continuous tone to flashing light/pulsing tone.



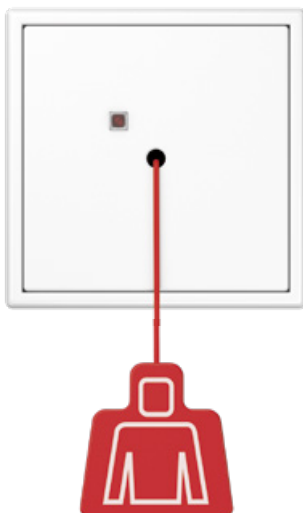
RESET BUTTON

The reset button is installed next to the door in the same room as the pull cord push-button. The assisting personnel can reset the triggered call.



POWER SUPPLY

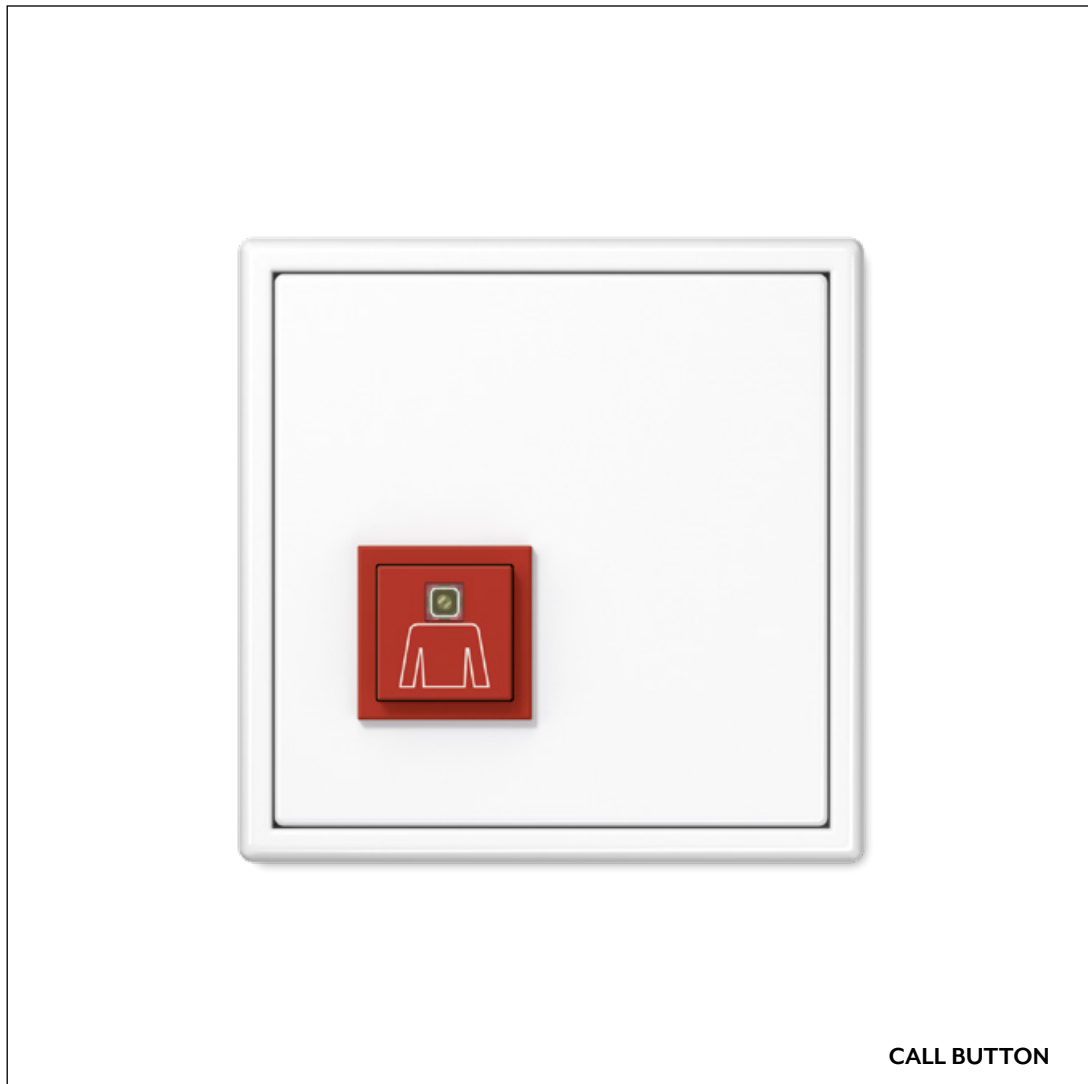
Power supply for the emergency call system with DC 24 V.



EMERGENCY SIGNAL

The emergency signal can e.g. be installed outside next to the WC door or landing door. A triggered emergency call is signalled visually by a red LED and acoustically by a buzzer, 90 dB(A). Both signals can, if required, be changed from continuous light/continuous tone to flashing light/pulsing tone.

Hospital installations



The JUNG emergency system is a well-conceived, complete set for emergency calls in WCs or en-suite bathrooms in old people's homes and nursing homes or WC facilities in public buildings. It ensures that a person in need of help can sound the alarm in an emergency and meets all the safety-related requirements in accordance with DIN VDE 0834. The emergency system is available for the AS / A, CD and LS design ranges to complete a unique design in a building.

Emergency system

Ref.-no.

Emergency system set

consists of pull cord push-button, emergency signal, reset button and power supply

screw fixing only, without claws

with 1-gang frames

for AS range

ivory

NRS AS 0834

white

NRS AS 0834 WW

for CD range

white

NRS CD 0834 WW

for LS range

ivory

NRS LS 0834

white

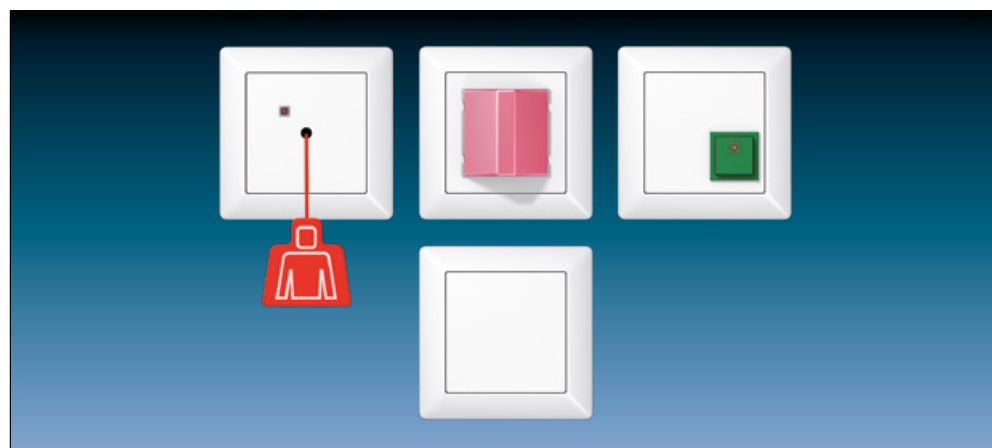
NRS LS 0834 WW

light grey

NRS LS 0834 LG

black

NRS LS 0834 SW



Single components (spare parts):

Pull cord push-button

screw fixing only, without claws

without frame

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory

NRS AS 0834 ZT

white

NRS AS 0834 ZT WW

for CD range

Thermoplastic (breakproof) high-gloss

white

NRS CD 0834 ZT WW

for LS range

Thermoplastic (breakproof) high-gloss

ivory

NRS LS 0834 ZT

white

NRS LS 0834 ZT WW

light grey

NRS LS 0834 ZT LG

black

NRS LS 0834 ZT SW

pull cord ref.-no.: ZS-34 KO5S included

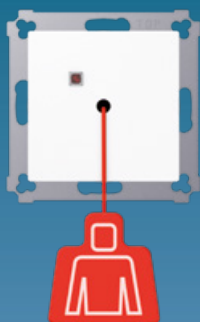
Pull cord

length: approx. 2000 mm

with spring hook

red

ZS-34 KO5S



Ref.-no.

Emergency signal

screw fixing only, without claws
without frame

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	NRS AS 0834 RM
white	NRS AS 0834 RM WW

for CD range

Thermoplastic (breakproof) high-gloss

white	NRS CD 0834 RM WW
-------	-------------------

for LS range

Thermoplastic (breakproof) high-gloss

ivory	NRS LS 0834 RM
white	NRS LS 0834 RM WW
light grey	NRS LS 0834 RM LG
black	NRS LS 0834 RM SW

Reset button

screw fixing only, without claws
without frame

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	NRS AS 0834 AT
white	NRS AS 0834 AT WW

for CD range

Thermoplastic (breakproof) high-gloss

white	NRS CD 0834 AT WW
-------	-------------------

for LS range

Thermoplastic (breakproof) high-gloss

ivory	NRS LS 0834 AT
white	NRS LS 0834 AT WW
light grey	NRS LS 0834 AT LG
black	NRS LS 0834 AT SW

Power supply

screw fixing only, without claws
without frame
supplies the emergency call system with DC 24 V

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	NRS AS 0834 NT
white	NRS AS 0834 NT WW

for CD range

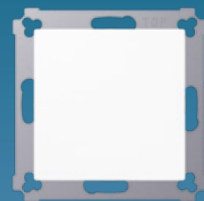
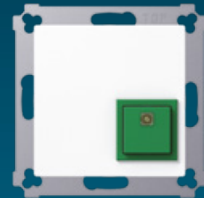
Thermoplastic (breakproof) high-gloss

white	NRS CD 0834 NT WW
-------	-------------------

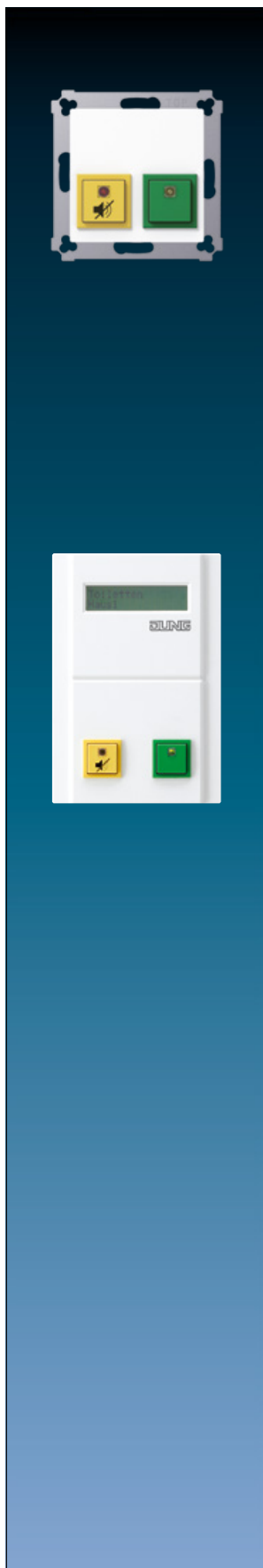
for LS range

Thermoplastic (breakproof) high-gloss

ivory	NRS LS 0834 NT
white	NRS LS 0834 NT WW
light grey	NRS LS 0834 NT LG
black	NRS LS 0834 NT SW



Emergency system



Ref.-no.

Optional:

Service unit

screw fixing only, without claws
without frame

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory

NRS AS 0834 DZE

white

NRS AS 0834 DZE WW

for CD range

Thermoplastic (breakproof) high-gloss

white

NRS CD 0834 DZE WW

for LS range

Thermoplastic (breakproof) high-gloss

ivory

NRS LS 0834 DZE

white

NRS LS 0834 DZE WW

light grey

NRS LS 0834 DZE LG

black

NRS LS 0834 DZE SW

Service terminal

Thermoplastic (breakproof) high-gloss

white

NRS DZT 20 WW

- Central remote signalling from up to 20 alarms
- Optical and acoustical signalling
- Two-line display for indication of the alarms
- Programmable alarm messages with up to 16 characters for allocating the alarms
- 20 electrically isolated inputs with one ground
- Evaluation of standby- and operating current
- Suppression of the acoustical alarms for 20 seconds
- Green presence push-button
- Yellow alarm suppression push-button
- Programmable with the PC
- USB-cable and Software (multi-language) included
- Power supply 24 V DC
- Inputs 24 V DC
- For screw-fixing in a wall box without claws
- Dimensions: 145 x 100 x 24 mm (H x W x D)

Technical data

Supply voltage:	DC 24 V ± 12.5 %
Current consumption:	max. 30 mA
Ambient temperature:	+5 ... +40 °C
Connection mode:	screwless connection
single wire:	Ø 0.3 ... 1.4 mm
Cable type:	J-Y(St)Y
Distance emergency signal – service terminal:	max. 500 m
Inputs	
Voltage range:	DC 24 V ± 12.5 %
Current consumption:	typical 2 mA

Ref.-no.

Surface-mounted housing

for service terminal ref.-no.: NRS DZT 20 WW

Thermoplastic (breakproof) high-gloss

white

NRS DZT AP WW

Dimensions: 100 x 145 x 25 mm (W x H x D)

Call button

screw fixing only, without claws

without frame

An additional control for triggering an emergency call

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory

NRS AS 0834 RT

white

NRS AS 0834 RT WW

for CD range

Thermoplastic (breakproof) high-gloss

white

NRS CD 0834 RT WW

for LS range

Thermoplastic (breakproof) high-gloss

ivory

NRS LS 0834 RT

white

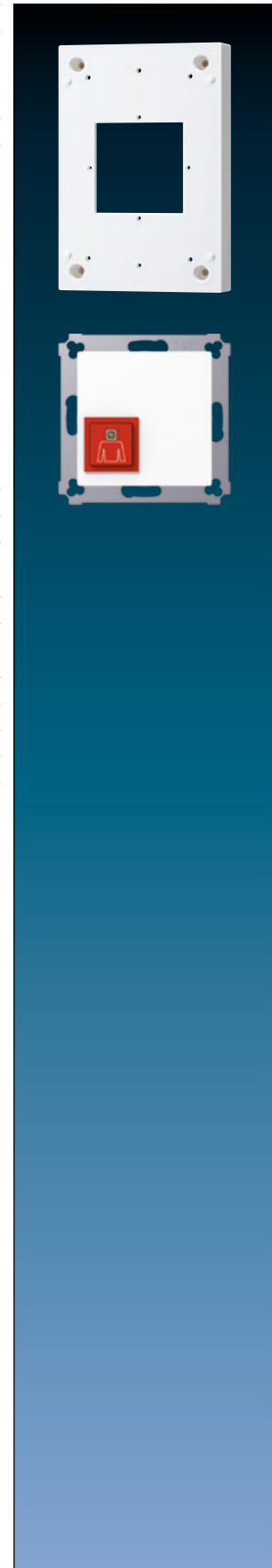
NRS LS 0834 RT WW

light grey

NRS LS 0834 RT LG

black

NRS LS 0834 RT SW





Oversize rockers

“Oversize rockers” made of stainless steel, for convenient operation of automatic doors: ideal for use in corridors in hospitals and care homes where beds and wheelchairs have to be pushed.



Installation note: No plaster compensation possible.

Insert must be mounted flush with the wall.

Supporting frame must be on top of wallpaper.

	Ref.-no.
Oversize rocker (70 x 212.4 mm)	
for switch insert ref.-no.: 501 U, 502 U, 503 U, 506 U, 507 U, 501-20 U, 506-20 U, 507-20 U	
for push switch insert ref.-no.: 502 TU, 506 TU, 507 TU	
for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U	
stainless steel	IP L ES 2993
white (stainless steel lacquered)	IP P ES 2993 WW
Protection level IP 44 only possible with 3-gang frame!	
Inscription on request	

Oversize rocker (70 x 212.4 mm) with lens

for switch insert with indicator light

ref.-no.: 502 KOU, 503 KOU, 506 KOU, 501-20 KOU, 502-20 KOU, 506-20 KOU

for push switch insert with indicator light ref.-no.: 502 KOTU, 506 KOTU

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

stainless steel	IP L ES 2993 KO5
white (stainless steel lacquered)	IP P ES 2993 KO5 WW

Protection level IP 44 only possible with 3-gang frame!

Inscription on request

Holder plate

for frame fixing and oversize rocker bearing

(Spare part)

black	ES 2993 HP
-------	------------



Oversize rocker

**Installation note: No plaster compensation possible.
Insert must be mounted flush with the wall.
Supporting frame must be on top of wallpaper.**



Ref.-no.

Surface cap

with integrated frame and non-flammable ground plate

3-gang, 223 x 81 x 47 mm

metal colours (duroplastic lacquered)

stainless steel (lacquered)

ES 2583 A-L

Duroplastic (scratch-proof) glossy

white

LS 583 A WW

Frame

for horizontal and vertical installation

stainless steel

3-gang 81 x 223 mm



ES 2983

white (stainless steel lacquered)

3-gang 81 x 223 mm



ES 2983 WW

**Installation note: No plaster compensation possible.
Insert must be mounted flush with the wall.
Supporting frame must be on top of wallpaper.**

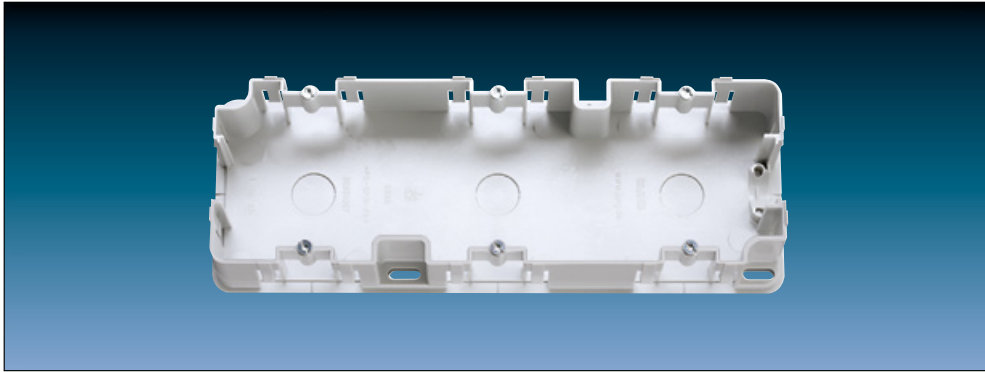
Ref.-no.

Mounting box for surface caps

(Spare part)

3-gang

583 A



Strain relief

for surface caps

for cables 3 x 1.5 mm² up to 5 x 2.5 mm² (Ø 7 up to 13 mm)

58 A ZUG

Inlets for cables, pipes and trunkings in surface caps

for cable and mini trunking

white

11 WW

stone grey

11 SG

for trunking 15 x 15 mm

white

12 WW

stone grey

12 SG

for pipes with outside Ø 16 mm

white

13 WW

stone grey

13 SG

Sealing gasket

to ensure protection level IP 44

for all flush-mounted switch/push-button inserts of the 500 range, SCHUKO® sockets with hinged lid, rotary switches and timer switch inserts

for all devices, covers and frames with blue "IP 44 marking"

in some cases with additional gaskets acc. to product description

IP

551 WU





Corridor unit

The integration of card readers in the JUNG system can also be realised in the project.



Room unit with key card holder

A good hotel is perfectly coordinated in its processes and provides its guests with a high degree of service and comfort. The well thought-out and proven hospitality solutions from JUNG help both guests and hotel personnel. The intuitive operating philosophy for

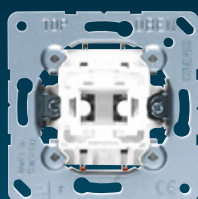
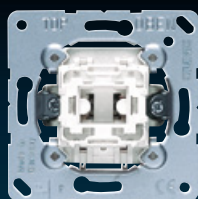
controlling room functions and automated processes is an essential factor here. Only then does the guest feel comfortable. In addition, the necessary routines can be created in the daily work of the hotel personnel.

Hotel installation



High comfort for the guest, more economic efficiency for the owner and efficient work processes for the personnel. This is what the professional hotel installations from JUNG stand for.

Hotel installation



Ref.-no.

1-gang push-button insert 10 A / 250 V ~

Screwless terminals for wires up to 2.5 mm²

Without claws: ref.-no. with additional "E", e.g.: 531 EU

1-pole, 1-way (NO contact)

531 U

1-pole, 2-way with terminal for N conductor

533 U

1-pole, 1-way (NO contact) with separate contacts for indicator light

534 U

Illumination possible with lamp ref.-no. 90/95 (230 V), 96-.. (low voltage), or LED lamp ref.-no. 90-LED.. (230 V) or 961248 LED.. (low voltage).

1-gang push-button insert 10 A / 250 V ~

Screwless terminals for wires up to 2.5 mm²

Without claws: ref.-no. with additional "E", e.g.: 532 EU

2-pole, 1-way (NO contact)

532 U

Key card holder

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 534 U

The key card holder is used to keep the hotel card and to ensure a high level of safety and energy savings, since all possibly powered electrical loads are switched off automatically when removing the hotel card.

The key card holder will be completed with a push-button of the JUNG portfolio.

The push-button ref.-no. 533 U with NO/NC contact and additional N-terminal is recommended.

The separate N-terminal enables the illumination of the device with incandescent or LED lamp at the same potential. If the pilot lamp should not be at the same potential, please install the push-button ref.-no. 534 U with separate signalling contact.

Installation note: No plaster compensation possible. Insert must be mounted flush with the wall. Supporting frame must be on top of wallpaper.

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory

A 590 CARD

white

A 590 CARD WW

black

A 590 CARD SW

Thermoplastic (breakproof) lacquered

aluminium

A 590 CARD AL

champagne

A 590 CARD CH

mocha

A 590 CARD MO

matt lacquered

matt snow white

A 590 CARD WWM

matt graphite black

A 590 CARD SWM

matt anthracite

A 590 CARD ANM

Ref.-no.

Key card holder

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 534 U

for CD range

Thermoplastic (breakproof) high-gloss

white **CD 590 CARD WW**

metal colours (thermoplastic lacquered)

gold-bronze **CD 590 CARD GB-L**

platinum **CD 590 CARD PT-L**

for SL range

white **SL 590 CARD WW**

gold-bronze **SL 590 CARD GB**

black **SL 590 CARD SW**

for LS range

Thermoplastic (breakproof) high-gloss

ivory **LS 590 CARD**

white **LS 590 CARD WW**

light grey **LS 590 CARD LG**

black **LS 590 CARD SW**

matt lacquered

matt snow white **LS 590 CARD WWM**

matt graphite black **LS 590 CARD SWM**

metal colours (thermoplastic lacquered)

aluminium (lacquered) **AL 2990 CARD**

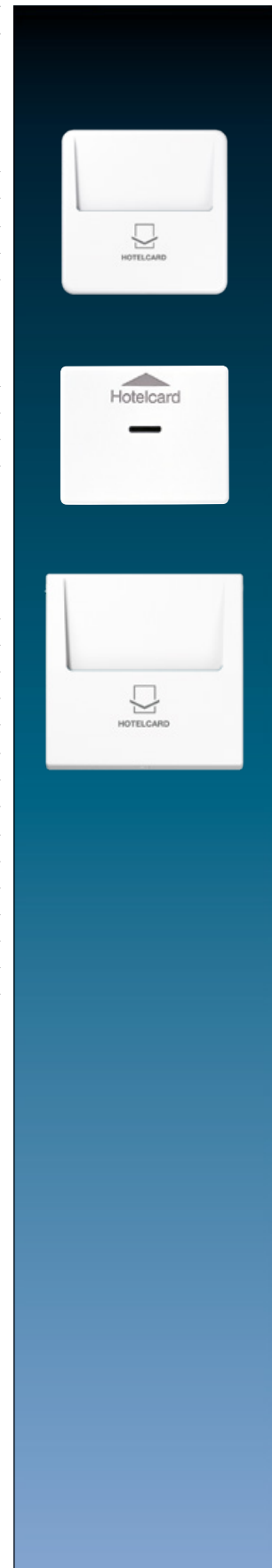
stainless steel (lacquered) **ES 2990 CARD**

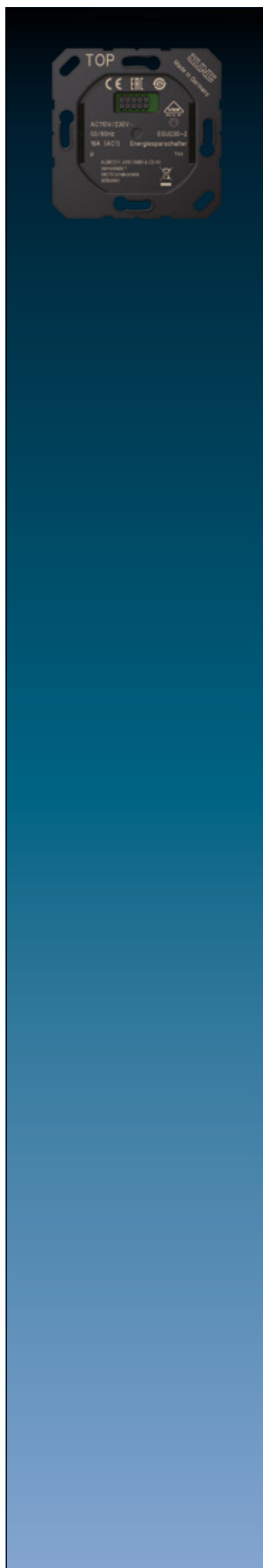
anthracite (lacquered) **AL 2990 CARD AN**

dark (lacquered) **AL 2990 CARD D**

classic brass (lacquered) **ME 2990 CARD C**

antique brass (lacquered) **ME 2990 CARD AT**





Ref.-no.

Energy saving unit

for key card holder RFID ref.-no.: .. CARD RFID ..

ESU 230-2

The intended use and the product features refer to the complete device, consisting of energy saving unit and key card holder RFID.

Intended use

- Switching of lighting and other loads
- Triggering of external control systems
- Installation in flush box according to EN 60670-1

Product characteristics

- Operation with RFID cards according to RFID standard ISO/IEC 14443 and ISO/IEC 15693
- 2 NO contacts, one of them with configurable run-on time
- Status indication with RGB lens
- Lens is dimming down 30 s after inserting the card
- Run-on time is signalled by RGB lens after removing the card

Technical data

Rated voltage:	AC 110 ... 230 V ~
Mains frequency:	50/60 Hz
Switching current AC1 (cos φ > 0.8):	16 A
Current carrying capacity of device (A1 + A2):	max. 16 A
Switch type:	2 NO contacts
Contact type:	μ
Ambient temperature:	-5 ... +45 °C
Storage/transport temperature:	-25 ... +75 °C
Stand-by power:	max. 0.94 W
Connection mode:	screw terminals
single wire:	1 x 2.5 mm ² or 2 x 1.5 mm ²
Connected load, 230 V	
Output 1 (A1)	
Ohmic:	3000 W
Motors:	1160 VA
HV halogen lamps:	1000 W
Electronic transformers with LV halogen lamps:	1000 W
Output 2 (A2)	
Shut-off delay:	0 ... 240 s (60 s)
Ohmic:	3000 W
Capacitive:	16 A / 140 μ F
Motors:	1380 VA
HV halogen lamps:	2500 W
Electronic transformers with LV halogen lamps:	1500 W
Inductive transformers with LV halogen lamps:	1200 VA
HV LED lamps:	typical 400 W
Reduction of load	
for every 5 °C exceeded 35 °C:	-10 %
for installation into wooden or hollow walls:	-15 %
for installation into multiple combinations:	-20 %

Ref.-no.

Key card holder RFID

for energy saving unit ref.-no.: ESU 230-2

The key card holder RFID is used to keep the hotel card and to ensure a high level of safety and energy savings, since all possibly powered electrical loads are switched off with an adjustable delay after removing the hotel card. The key card holder RFID will be completed with the energy saving unit. The lens colour and brightness and the shut-off delay of the second relay can be adjusted at www.jung.de/hotelcard prior to placing an order.



The intended use and the product features refer to the complete device, consisting of energy saving unit and key card holder RFID.

Product characteristics



- Operation with RFID cards according to RFID standard ISO/IEC 14443 and ISO/IEC 15693
- 2 NO contacts, one of them with configurable run-on time
- Status indication with RGB lens
- Lens is dimming down 30 s after inserting the card
- Run-on time is signalled by RGB lens after removing the card

for A range

Thermoplastic (breakproof) high-gloss

white	 A CARD RFID WW
black	 A CARD RFID SW

Thermoplastic (breakproof) lacquered




aluminium	 A CARD RFID AL
champagne	 A CARD RFID CH
mocha	A CARD RFID MO

matt lacquered

matt snow white	A CARD RFID WWM
matt graphite black	A CARD RFID SWM
matt anthracite	A CARD RFID ANM

for LS range



Thermoplastic (breakproof) high-gloss

ivory	 LS CARD RFID
white	 LS CARD RFID WW
light grey	 LS CARD RFID LG
black	LS CARD RFID SW

matt lacquered

matt snow white	LS CARD RFID WWM
matt graphite black	LS CARD RFID SWM

metal colours (thermoplastic lacquered)

aluminium (lacquered)	 AL CARD RFID
stainless steel (lacquered)	 ES CARD RFID
anthracite (lacquered)	AL CARD RFID AN
dark (lacquered)	AL CARD RFID D
classic brass (lacquered)	ME CARD RFID C
antique brass (lacquered)	ME CARD RFID AT

Configuration card RFID

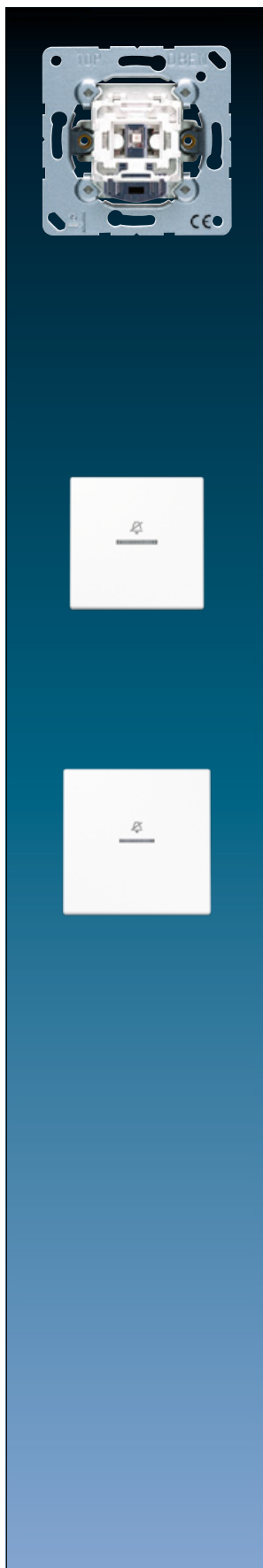
The lens colour and brightness and the run-on time of the second relay can be adjusted with the configuration card RFID.

For further information see www.jung.de/hotelcard

CONFIG RFID



Hotel installation



Ref.-no.

Hotel switch insert, room unit

for hotel rocker room unit ref.-no.: .. RU KO5 D ..

with red LED lamp

Screwless terminals for wires up to 2.5 mm²

screw fixing only, without claws

The room unit is used for switching the LEDs of the corridor unit.

DC 24 V

1-pole, 2-way

506 KO5 EU D 24

AC 230 V ~

1-pole, 2-way *

506 KO5 EU D 230

* Neutral conductor required

Hotel rocker, room unit

for hotel switch insert, room unit, ref.-no.: 506 KO5 EU D 24, 506 KO5 EU D 230

with lens and symbol "Do not disturb"

for A range

Duroplastic (scratch-proof) glossy

white

A RU KO5 D WW

black

A RU KO5 D SW

Duroplastic lacquered

aluminium

A RU KO5 D AL

champagne

A RU KO5 D CH

mocha

A RU KO5 D MO

matt lacquered

matt anthracite

A RU KO5 D ANM

for LS range

Duroplastic (scratch-proof) glossy

ivory

LS RU KO5 D

white

LS RU KO5 D WW

light grey

LS RU KO5 D LG

black

LS RU KO5 D SW

metal versions

aluminium

AL RU KO5 D

stainless steel

ES RU KO5 D

anthracite (aluminium lacquered)

AL RU KO5 D AN

dark (aluminium lacquered)

AL RU KO5 D D

classic brass

ME RU KO5 D C

antique brass

ME RU KO5 D AT

Ref.-no.

Hotel push-button insert, corridor unit

for hotel rocker corridor unit ref.-no.: .. CU KO5 D ..

with red LED lamp

Screwless terminals for wires up to 2.5 mm²

screw fixing only, without claws

The corridor unit indicates the switch position of the room unit.

The push-button is used to activate the bell (e.g. triple-tone door signal, ref.-no. ..567-G3 ..)

DC 24 V

1-pole, 1-way (NO contact) with separate contacts for indicator light	534 KO5 EU D 24
---	------------------------

AC 230 V ~

1-pole, 1-way (NO contact) with separate contacts for indicator light *	534 KO5 EU D 230
---	-------------------------

* Neutral conductor required

Hotel rocker, corridor unit

for hotel push-button insert, corridor unit, ref.-no.: 534 KO5 EU D 24, 534 KO5 EU D 230

with lens and symbol "Do not disturb"

with symbol "bell"

for A range

Duroplastic (scratch-proof) glossy

white	A CU KO5 D WW
-------	----------------------

black	A CU KO5 D SW
-------	----------------------

Duroplastic lacquered

aluminium	A CU KO5 D AL
-----------	----------------------

champagne	A CU KO5 D CH
-----------	----------------------

mocha	A CU KO5 D MO
-------	----------------------

matt lacquered

matt anthracite	A CU KO5 D ANM
-----------------	-----------------------

for LS range

Duroplastic (scratch-proof) glossy

ivory	LS CU KO5 D
-------	--------------------

white	LS CU KO5 D WW
-------	-----------------------

light grey	LS CU KO5 D LG
------------	-----------------------

black	LS CU KO5 D SW
-------	-----------------------

metal versions

aluminium	AL CU KO5 D
-----------	--------------------

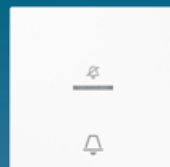
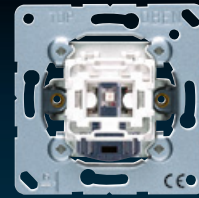
stainless steel	ES CU KO5 D
-----------------	--------------------

anthracite (aluminium lacquered)	AL CU KO5 D AN
----------------------------------	-----------------------

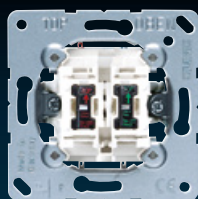
dark (aluminium lacquered)	AL CU KO5 D D
----------------------------	----------------------

classic brass	ME CU KO5 D C
---------------	----------------------

antique brass	ME CU KO5 D AT
---------------	-----------------------



Hotel installation



Hotel switch insert, room unit

for hotel rocker room unit ref.-no.: .. RU KO5 M ..

with red and green LED lamp

Mechanical interlocking to avoid switching of both rockers at the same time

Screwless terminals for wires up to 2.5 mm²

screw fixing only, without claws

The room unit is used for switching the LEDs of the corridor unit.

DC 24 V

2 x 1-pole, 1-way

505 KO5 VEU M 24

AC 230 V ~

2 x 1-pole, 1-way *

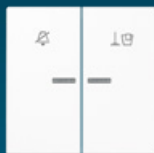
505 KO5 VEU M 230

* Neutral conductor required

Hotel rocker, room unit

for hotel switch insert, room unit, ref.-no.: 505 KO5 VEU M 24, 505 KO5 VEU M 230

with lens and symbols "Do not disturb" and "Make up room"



for A range

Duroplastic (scratch-proof) glossy

white

A RU KO5 M WW

black

A RU KO5 M SW

Duroplastic lacquered

aluminium

A RU KO5 M AL

champagne

A RU KO5 M CH

mocha

A RU KO5 M MO

matt lacquered

matt anthracite

A RU KO5 M ANM



for LS range

Duroplastic (scratch-proof) glossy

ivory

LS RU KO5 M

white

LS RU KO5 M WW

light grey

LS RU KO5 M LG

black

LS RU KO5 M SW

metal versions

aluminium

AL RU KO5 M

stainless steel

ES RU KO5 M

anthracite (aluminium lacquered)

AL RU KO5 M AN

dark (aluminium lacquered)

AL RU KO5 M D

classic brass

ME RU KO5 M C

antique brass

ME RU KO5 M AT

Ref.-no.

Ref.-no.

Hotel push-button insert, corridor unit

for hotel rocker corridor unit ref.-no.: .. CU KO5 M ..

with red and green LED lamp

Screwless terminals for wires up to 2.5 mm²

screw fixing only, without claws

The corridor unit indicates the switch position of the room unit.

The push-button is used to activate the bell (e.g. triple-tone door signal, ref.-no. ..567-G3 ..)

DC 24 V

1-pole, 1-way (NO contact)

531 KO5 EU M 24

AC 230 V ~

1-pole, 1-way (NO contact) *

531 KO5 EU M 230

* Neutral conductor required

Hotel rocker, corridor unit

for hotel push-button insert, corridor unit, ref.-no.: 531 KO5 EU M 24, 531 KO5 EU M 230

with lens and symbols "Do not disturb" and "Make up room"

with symbol "bell"

for A range

Duroplastic (scratch-proof) glossy

white

A CU KO5 M WW

black

A CU KO5 M SW

Duroplastic lacquered

aluminium

A CU KO5 M AL

champagne

A CU KO5 M CH

mocha

A CU KO5 M MO

matt lacquered

matt anthracite

A CU KO5 M ANM

for LS range

Duroplastic (scratch-proof) glossy

ivory

LS CU KO5 M

white

LS CU KO5 M WW

light grey

LS CU KO5 M LG

black

LS CU KO5 M SW

metal versions

aluminium

AL CU KO5 M

stainless steel

ES CU KO5 M

anthracite (aluminium lacquered)

AL CU KO5 M AN

dark (aluminium lacquered)

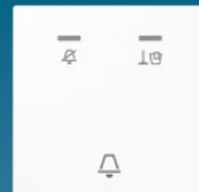
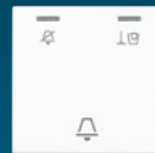
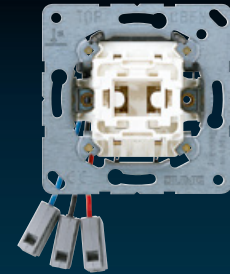
AL CU KO5 M D

classic brass

ME CU KO5 M C

antique brass

ME CU KO5 M AT



Hotel installation



Ref.-no.

Hotel centre plate with LED unit 24 V, corridor unit

with supporting frame, screw fixing only
with red and green LED lamp
with lens and symbols "Do not disturb" and "Make up room"
The corridor unit indicates the switch position of the room unit.

for A range

Thermoplastic (breakproof) high-gloss

white	A CU KO5 M 24 WW
black	A CU KO5 M 24 SW

Thermoplastic (breakproof) lacquered

aluminium	A CU KO5 M 24 AL
champagne	A CU KO5 M 24 CH
mocha	A CU KO5 M 24 MO

matt lacquered

matt anthracite	A CU KO5 M 24 ANM
-----------------	-------------------

for LS range

Thermoplastic (breakproof) high-gloss

ivory	LS CU KO5 M 24
white	LS CU KO5 M 24 WW
light grey	LS CU KO5 M 24 LG
black	LS CU KO5 M 24 SW

metal versions

aluminium	AL CU KO5 M 24
stainless steel	ES CU KO5 M 24
anthracite (aluminium lacquered)	AL CU KO5 M 24 AN
dark (aluminium lacquered)	AL CU KO5 M 24 D
classic brass	ME CU KO5 M 24 C
antique brass	ME CU KO5 M 24 AT

Ref.-no.

Hotel centre plate with LED unit 230 V, corridor unit

with supporting frame, screw fixing only

with red and green LED lamp

with lens and symbols "Do not disturb" and "Make up room"

The corridor unit indicates the switch position of the room unit.

for A range

Thermoplastic (breakproof) high-gloss

white **A CU KO5 M 230 WW**

black **A CU KO5 M 230 SW**

Thermoplastic (breakproof) lacquered

aluminium **A CU KO5 M 230 AL**

champagne **A CU KO5 M 230 CH**

mocha **A CU KO5 M 230 MO**

matt lacquered

matt anthracite **A CU KO5 M 230 ANM**

for LS range

Thermoplastic (breakproof) high-gloss

ivory **LS CU KO5 M 230**

white **LS CU KO5 M 230 WW**

light grey **LS CU KO5 M 230 LG**

black **LS CU KO5 M 230 SW**

metal versions

aluminium **AL CU KO5 M 230**

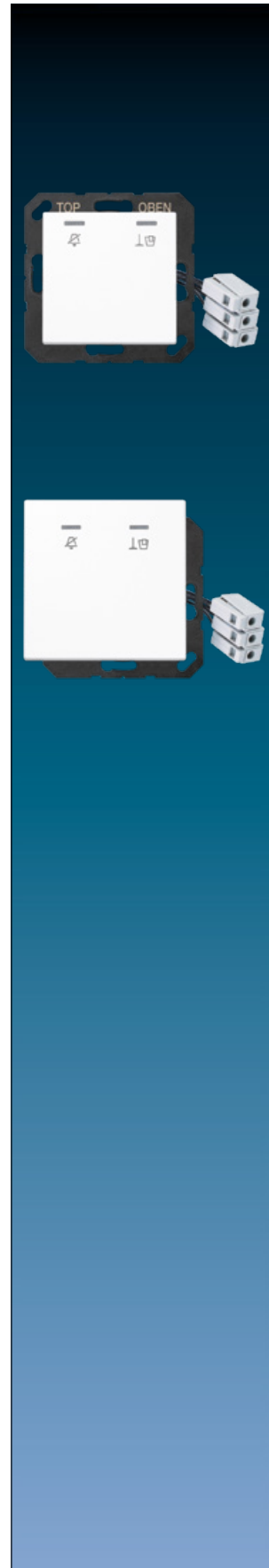
stainless steel **ES CU KO5 M 230**

anthracite (aluminium lacquered) **AL CU KO5 M 230 AN**

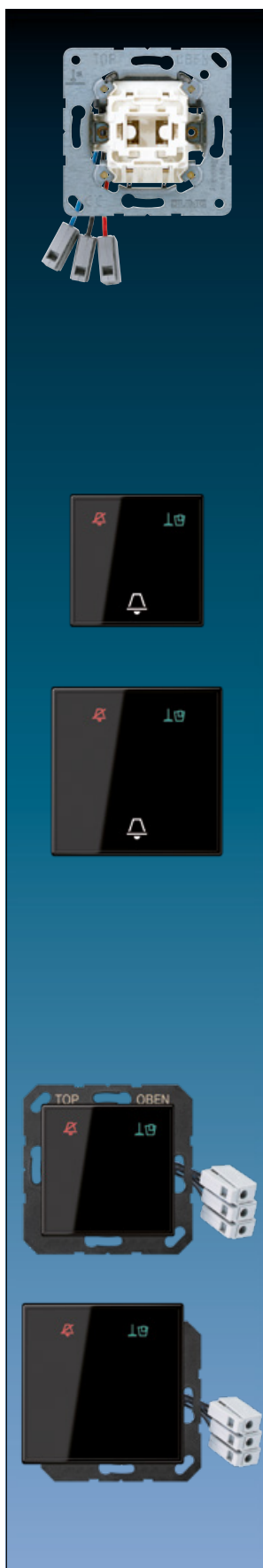
dark (aluminium lacquered) **AL CU KO5 M 230 D**

classic brass **ME CU KO5 M 230 C**

antique brass **ME CU KO5 M 230 AT**



Hotel installation



Ref.-no.

Hotel push-button insert, corridor unit

for hotel rocker (glass) corridor unit ref.-no.: .. CU KO6 M ..

with red and green LED lamp

Screwless terminals for wires up to 2.5 mm²

screw fixing only, without claws

The corridor unit indicates the switch position of the room unit.

The push-button is used to activate the bell (e.g. triple-tone door signal, ref.-no. ..567-G3 ..)

DC 24 V

1-pole, 1-way (NO contact)

531 KO6 EU M 24

Hotel rocker (glass), corridor unit

for hotel push-button insert, corridor unit, ref.-no.: 531 KO6 EU M 24

with symbol "Do not disturb" (red backlight) and symbol "Make up room" (green backlight)

Symbols will be hidden when switched off (fade effect)

with printed symbol "bell"

for AS and A ranges

white

A CU KO6 M WW

black

A CU KO6 M SW

for LS range

white

LS CU KO6 M WW

black

LS CU KO6 M SW

Hotel centre plate (glass) with LED unit 24 V, corridor unit

with supporting frame, screw fixing only

with red and green LED lamp

with symbol "Do not disturb" (red backlight) and symbol "Make up room" (green backlight)

Symbols will be hidden when switched off (fade effect)

The corridor unit indicates the switch position of the room unit.

for AS and A ranges

white

A CU KO6 M 24 WW

black

A CU KO6 M 24 SW

for LS range

white

LS CU KO6 M 24 WW

black

LS CU KO6 M 24 SW

Ref.-no.

LED pilot light

for glass cover ref.-no.: .. CU KO6 TX ..

LED KO6 TX 24

Intended use

- LED pilot light for use in dry indoor areas
- Installation in flush box according to EN 60670-1

Product characteristics

- Customised labelling, symbols or text in combination with glass cover
- Backlight in white, red, green or orange
- Color change via separate switch, e.g. ref.-no.: 505 U or 505 KO5 VEU M 24 (not included)

Technical data

Rated voltage:	DC 24 V SELV
Rated capacity:	< 1.5 W
Ambient temperature:	-5 ... +45 °C



Glass cover

for LED pilot light ref.-no.: LED KO6 TX 24


The cover is lacquered on the back and can be lasered individually using the Graphic Tool.

Order only via Graphic Tool: www.jung.de/gt

for AS and A ranges

white	 A CU KO6 TX WW
black	 A CU KO6 TX SW

for LS range



white	 LS CU KO6 TX WW
black	 LS CU KO6 TX SW

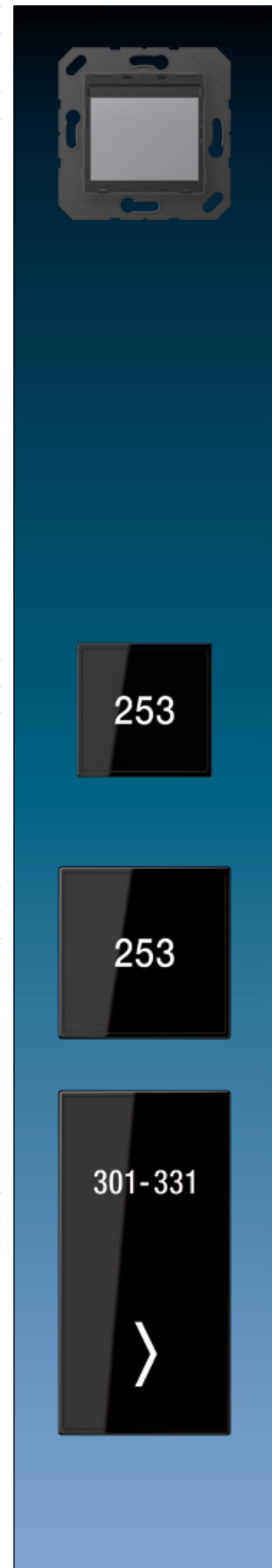
Glass cover 2-gang

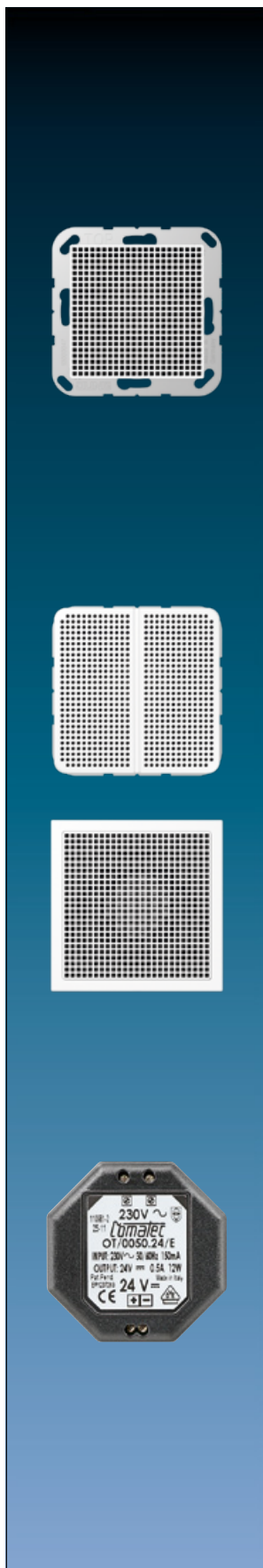
for 2 LED pilot lights ref.-no.: LED KO6 TX 24

The cover is lacquered on the back and can be lasered individually using the Graphic Tool.

Order only via Graphic Tool: www.jung.de/gt

white	 LS CU KO6 TX-2 WW
black	 LS CU KO6 TX-2 SW





Ref.-no.

Triple-tone door signal

with supporting frame, screw fixing only
 2 separate terminals for 2 or 3 tone signal
 power supply: 8 ... 12 V AC or 8 ... 24 V DC, via external power supply (SELV) e.g.
 ref.-no. NT 2405 VDC or NT 2415 REG VDC
 current consumption: approx. 150 mA

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	A 567-G3
white	A 567-G3 WW
black	A 567-G3 SW

Thermoplastic (breakproof) lacquered

aluminium	A 567-G3 AL
champagne	A 567-G3 CH
mocha	A 567-G3 MO

matt lacquered

matt snow white	A 567-G3 WWM
matt graphite black	A 567-G3 SWM
matt anthracite	A 567-G3 ANM

for CD range

Thermoplastic (breakproof) high-gloss

ivory	CD 567-G3
white	CD 567-G3 WW

for LS range

Thermoplastic (breakproof) high-gloss

ivory	LS 2567-G3
white	LS 2567-G3 WW
matt lacquered	
matt snow white	LS 2567-G3 WWM
matt graphite black	LS 2567-G3 SWM

metal versions

aluminium	AL 2567-G3
stainless steel	ES 2567-G3
anthracite (aluminium lacquered)	AL 2567-G3 AN

Flush-mounted power supply

NT 2405 VDC

Technical data

Input voltage:	AC 230 V ~, 50/60 Hz
Input current:	150 mA
Output voltage:	DC 24 V
Output current:	500 mA
Dimensions (Ø x H):	54 x 32 mm
Connection:	screw terminals

Ref.-no.

Power supply for rail mounting

Rail mounting device, 4 rail units

NT 2415 REG VDC

Technical data

Input voltage:	AC 100 ... 240 V ~, 50/60 Hz
Input current:	730 mA
Output voltage:	DC 24 V SELV
Output current:	1.5 A
Mounting width:	72 mm (4 rail units)
Connection:	screw terminals

Hinged lid

with symbol "charger"

for USB charger ref.-no.: USB 15 CA WW, USB 15 CA SW
including centre plate

for CD range

Thermoplastic (breakproof) high-gloss

ivory	CD 590 KL USB
white	CD 590 KL USB WW
brown	CD 590 KL USB BR
grey	CD 590 KL USB GR
light grey	CD 590 KL USB LG
black	CD 590 KL USB SW

metal versions (anodized aluminium)

gold-bronze	CD 590 KL USB GB
platinum	CD 590 KL USB PT

for LS range

with spring

Thermoplastic (breakproof) high-gloss

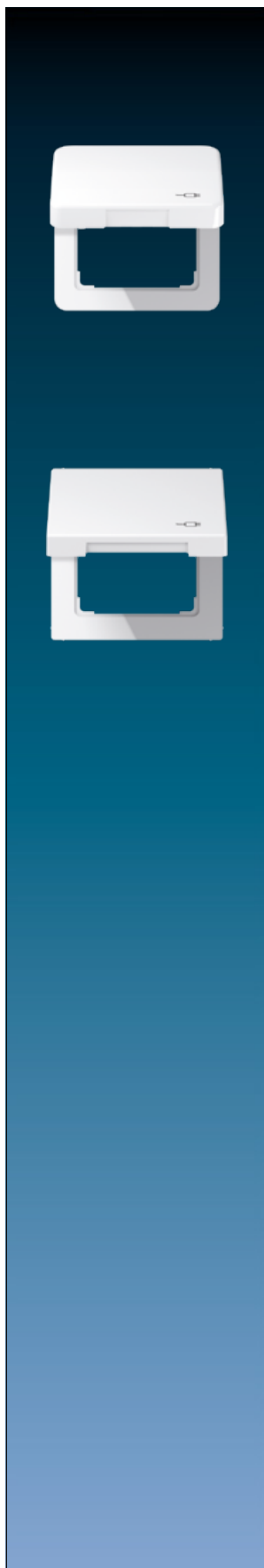
ivory	LS 990 BFKL USB
white	LS 990 BFKL USB WW
light grey	LS 990 BFKL USB LG
black	LS 990 BFKL USB SW

metal versions

aluminium	AL 2990 KL USB
stainless steel	ES 2990 KL USB
anthracite (aluminium lacquered)	AL 2990 KL USB AN
dark (aluminium lacquered)	AL 2990 KL USB D
classic brass	ME 2990 KL USB C
antique brass	ME 2990 KL USB AT



Hotel installation



Ref.-no.

**Hinged lid
with symbol "plug"
for sockets with 50 x 50 mm cover**

for CD range

Thermoplastic (breakproof) high-gloss

ivory	CD 590 KL SOC
white	CD 590 KL SOC WW
brown	CD 590 KL SOC BR
grey	CD 590 KL SOC GR
light grey	CD 590 KL SOC LG
black	CD 590 KL SOC SW

metal versions (anodized aluminium)

gold-bronze	CD 590 KL SOC GB
platinum	CD 590 KL SOC PT

for LS range

with spring

Thermoplastic (breakproof) high-gloss

ivory	LS 990 BFKL SOC
white	LS 990 BFKL SOC WW
light grey	LS 990 BFKL SOC LG
black	LS 990 BFKL SOC SW

metal versions

aluminium	AL 2990 KL SOC
stainless steel	ES 2990 KL SOC
anthracite (aluminium lacquered)	AL 2990 KL SOC AN
dark (aluminium lacquered)	AL 2990 KL SOC D
classic brass	ME 2990 KL SOC C
antique brass	ME 2990 KL SOC AT

Ref.-no.

Hinged lid

with symbol "LAN"

for 2-gang modular jack sockets

IAE/UAE sockets ref.-no.: UAE 2 x 8 UPO, UAE 8-8 UPO

for sockets Cat. 6 ref.-no.: UAE 8-8 UPOK6

(2 x 8-pol.)

including centre plate

for CD range

Thermoplastic (breakproof) high-gloss

ivory	CD 590 KL LAN
white	CD 590 KL LAN WW
brown	CD 590 KL LAN BR
grey	CD 590 KL LAN GR
light grey	CD 590 KL LAN LG
black	CD 590 KL LAN SW

metal versions (anodized aluminium)

gold-bronze	CD 590 KL LAN GB
platinum	CD 590 KL LAN PT

for LS range

with spring

Thermoplastic (breakproof) high-gloss

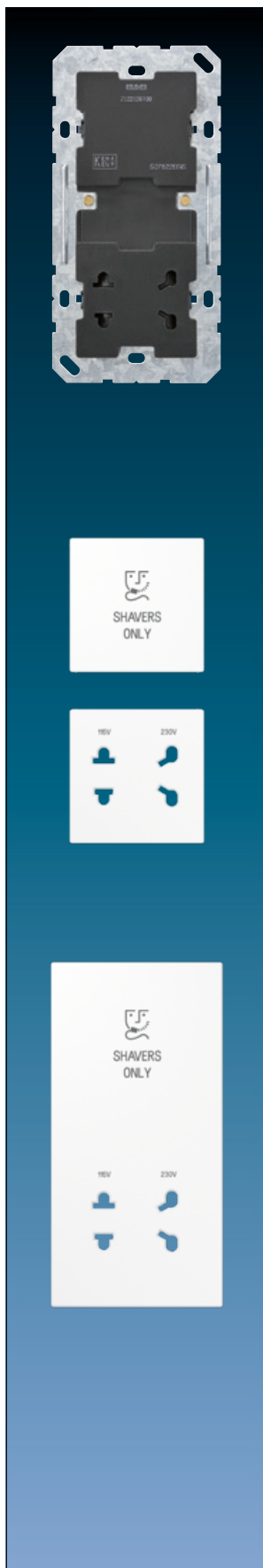
ivory	LS 990 BFKL LAN
white	LS 990 BFKL LAN WW
light grey	LS 990 BFKL LAN LG
black	LS 990 BFKL LAN SW

metal versions

aluminium	AL 2990 KL LAN
stainless steel	ES 2990 KL LAN
anthracite (aluminium lacquered)	AL 2990 KL LAN AN
dark (aluminium lacquered)	AL 2990 KL LAN D
classic brass	ME 2990 KL LAN C
antique brass	ME 2990 KL LAN AT



Hotel installation



Ref.-no.

Electric shaver socket outlet

with enhanced contact protection (shutter)
Screw terminals for wires up to 4 mm²
Isolating transformer
Overtemperature protection

SO 7522 EINS

Suitable for US NEMA 1 plug (2 pins) and Europlug.
Suitable wall boxes: ref.-no. 9062-02, 1656-21

Technical data

Input voltage: AC 230 V ~
Output voltage: AC 115 V ~ and AC 230 V ~
Power: 20 VA

Centre plate

for electric shaver socket outlet ref.-no.: SO 7522 EINS
The device can be installed into multiple frames of the AS / A ranges.

for AS and A ranges

Duroplastic (scratch-proof) glossy

white	SO A 7522 WW PL
black	SO A 7522 SW PL

Duroplastic lacquered

aluminium	SO A 7522 AL PL
champagne	SO A 7522 CH PL
mocha	SO A 7522 MO PL

Thermoplastic (breakproof) high-gloss

white	SO A 7522 BF WW PL
black	SO A 7522 BF SW PL

matt lacquered

matt snow white	SO A 7522 WWM PL
matt graphite black	SO A 7522 SWM PL

for LS range

Duroplastic (scratch-proof) glossy

ivory	SO LS 7522 PL
white	SO LS 7522 WW PL
light grey	SO LS 7522 LG PL
black	SO LS 7522 SW PL

matt lacquered

matt snow white	SO LS 7522 WWM PL
matt graphite black	SO LS 7522 SWM PL

metal versions

aluminium	SO AL 7522 PL
stainless steel	SO ES 7522 PL
anthracite (aluminium lacquered)	SO AN 7522 PL
dark (aluminium lacquered)	SO AL 7522 D PL
chrome	SO GCR 7522 PL
gold-coloured	SO GO 7522 PL
classic brass	SO ME 7522 C PL
antique brass	SO ME 7522 AT PL

Ref.-no.

Wall box for hollow walls, 2-gang

for electric shaver socket outlet ref.-no.: SO 7522 EINS

depth: 47 mm

9062-02

cutting hole \varnothing : 2 x 68 mm

centre distance: 71 mm

for panel thickness: 7 – 40 mm

device screws: 4

cable entries 3 x 1.5 mm²: 6

Wall box, 2-gang

for electric shaver socket outlet ref.-no.: SO 7522 EINS

depth: 68 mm

1656-21

length: 149 mm

width: 80 mm

installation opening \varnothing : 2 x 60 mm

device screws: 4



Temperature controller fan coil, 2-pipe

Intended use

- Switching and operating electrical fan coil units with electrothermically actuated heating/cooling valves
- Measurement and feedback control of the room temperature
- Installation in flush box according to EN 60670-1 (recommendation: deep box)

Product characteristics

- Connection of one fan coil unit with up to 3 fan speeds
- Heating or cooling mode
- Real glass front panel
- 8 capacitive sensor buttons
- Internal temperature sensor
- Room temperature controller function
- Preselection of the current energy level through the option of 5 temperature profiles for use in hotels or similar sites
- Display for indication of actual temperature (°C or °F), fan speed, operating mode/profile
- Menu levels blockable
- 1 status LED (red/green/blue)
- Display brightness and contrast adjustable
- Duration of the display illumination up to 120 seconds
- Satellite input for connection of key card holder

Technical data

Rated voltage:	AC 110 ... 230 V ~
Mains frequency:	50/60 Hz
Switching output	
Contact type:	μ
Output current:	max. 3 A
Switching capacity	
Motors (230 V):	690 VA
Motors (110 V):	300 VA
Outputs for valve drives	
Contact type:	semiconductor (triac), ε
Switching current:	max. 250 mA
Storing temperature:	-5 ... +45 °C
Transport temperature:	-25 ... +70 °C
Ambient temperature:	-5 ... +45 °C
Relative humidity:	5 ... 95 % (no condensation)
Connection mode:	screw terminals
single wire:	1.5 mm ²
stranded with ferrule:	1.5 mm ²

for AS and A ranges

white	TRD A 523028 WW
black	TRD A 523028 SW

for LS range

white	TRD LS 923028 WW
black	TRD LS 923028 SW



Ref.-no.

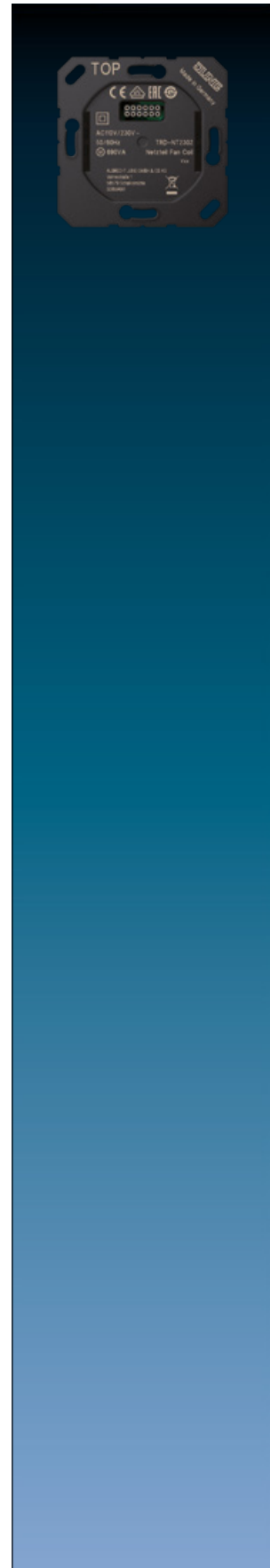
Power supply

for temperature controller fan coil (2-pipe) ref.-no.: TRD ..23028 ..
(Spare part)

TRD-NT 2302

Technical data

Rated voltage:	AC 110 ... 230 V ~
Mains frequency:	50/60 Hz
Switching output	
Contact type:	μ
Output current:	max. 3 A
Switching capacity	
Motors (230 V):	690 VA
Motors (110 V):	300 VA
Outputs for valve drives	
Contact type:	semiconductor (triac), ε
Switching current:	max. 250 mA
Storing temperature:	-5 ... +45 °C
Transport temperature:	-25 ... +70 °C
Ambient temperature:	-5 ... +45 °C
Relative humidity:	5 ... 95 % (no condensation)
Connection mode:	screw terminals
single wire:	1.5 mm ²
stranded with ferrule:	1.5 mm ²



Temperature controller fan coil, 4-pipe

Intended use

- Switching and operating electrical fan coil units with electrothermically actuated heating/cooling valves
- Measurement and feedback control of the room temperature
- Installation in flush box according to EN 60670-1 (recommendation: deep box)

Product characteristics

- Connection of one fan coil unit with up to 3 fan speeds
- Heating and/or cooling mode
- Real glass front panel
- 8 capacitive sensor buttons
- Internal temperature sensor
- Room temperature controller function
- Preselection of the current energy level through the option of 5 temperature profiles for use in hotels or similar sites
- Display for indication of actual temperature (°C or °F), fan speed, operating mode/profile
- Menu levels blockable
- 1 status LED (red/green/blue)
- Display brightness and contrast adjustable
- Duration of the display illumination up to 120 seconds
- Satellite input for connection of key card holder

Technical data

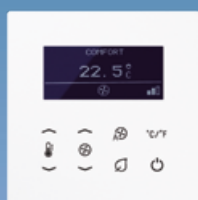
Rated voltage:	AC 110 ... 230 V ~
Mains frequency:	50/60 Hz
Switching output	
Contact type:	μ
Output current:	max. 3 A
Switching capacity	
Motors (230 V):	690 VA
Motors (110 V):	300 VA
Outputs for valve drives	
Contact type:	semiconductor (triac), ε
Switching current:	max. 250 mA
Storing temperature:	-5 ... +45 °C
Transport temperature:	-25 ... +70 °C
Ambient temperature:	-5 ... +45 °C
Relative humidity:	5 ... 95 % (no condensation)
Connection mode:	screw terminals
single wire:	1.5 mm ²
stranded with ferrule:	1.5 mm ²

for AS and A ranges

white	TRD A 523048 WW
black	TRD A 523048 SW

for LS range

white	TRD LS 923048 WW
black	TRD LS 923048 SW



Ref.-no.

Power supply

for temperature controller fan coil (4-pipe) ref.-no.: TRD ..23048 ..
(Spare part)

TRD-NT 2304

Technical data

Rated voltage:	AC 110 ... 230 V ~
Mains frequency:	50/60 Hz
Switching output	
Contact type:	μ
Output current:	max. 3 A
Switching capacity	
Motors (230 V):	690 VA
Motors (110 V):	300 VA
Outputs for valve drives	
Contact type:	semiconductor (triac), ε
Switching current:	max. 250 mA
Storing temperature:	-5 ... +45 °C
Transport temperature:	-25 ... +70 °C
Ambient temperature:	-5 ... +45 °C
Relative humidity:	5 ... 95 % (no condensation)
Connection mode:	screw terminals
single wire:	1.5 mm ²
stranded with ferrule:	1.5 mm ²

Display

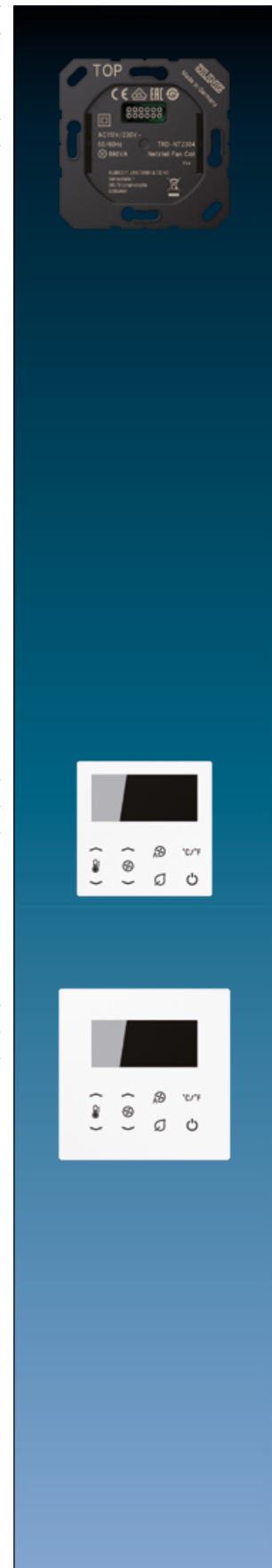
for temperature controller fan coil ref.-no.: TRD ..230..
(Spare part)

for AS and A ranges

white	TRD A-DISP WW
black	TRD A-DISP SW

for LS range

white	TRD LS-DISP WW
black	TRD LS-DISP SW



Hotel installation

KNX

These devices are part of the KNX system.
Further components of the KNX system can be found from page 658 onward.

Ref.-no.

KNX temperature controller fan coil

Intended use

- Sensor module for operating electrical fan coil units in KNX installations
- Measurement and feedback control of the room temperature
- Installation in flush box according to EN 60670-1

Product characteristics

- Real glass front panel
- 8 capacitive sensor buttons
- Internal temperature sensor
- External temperature sensor can be evaluated
- Control of fan coil units
- Heating and/or cooling mode
- Suitable for 2-pipe or 4-pipe systems
- Up to 3 fan speeds can be controlled
- Room temperature controller function
- Preselection of the current energy level either through the option of 4 operating modes in accordance with KNX standard or of 5 temperature profiles for use in hotels or similar sites
- Display for indication of actual temperature (°C or °F), fan speed, operating mode/profile
- 1 operating level and 2 menu levels
- Menu levels blockable
- 1 status LED (red/green/blue)
- Display brightness and contrast adjustable
- Duration of the display illumination up to 120 seconds
- Operation as extension unit for temperature controller possible
- Integrated bus coupling unit

Technical data

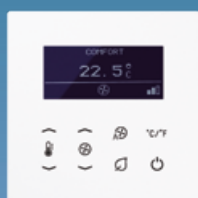
KNX medium:	TP 256
Rated voltage KNX:	DC 21 ... 32 V SELV
Current consumption KNX:	8 ... 17.5 mA
Protection class:	III
Ambient temperature:	-5 ... +45 °C
Storage/transport temperature:	-20 ... +70 °C

for AS and A ranges

white	TRD A 5248 WW
black	TRD A 5248 SW

for LS range

white	TRD LS 9248 WW
black	TRD LS 9248 SW



Ref.-no.

JUNG Visu Pro Software Hotel

Full version

JVP-HOTEL

Note: The software can only be downloaded from the JUNG website
<https://www.jung.de/en/1508/service/get-your-software-licence/>.

When downloading, you can choose between the English and the German version.

Each installation will run in demo mode for 20 days or 400 starts.

For an unrestricted use the software must be activated via a MyJUNG account.

Intended use

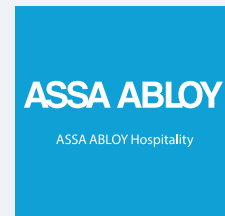
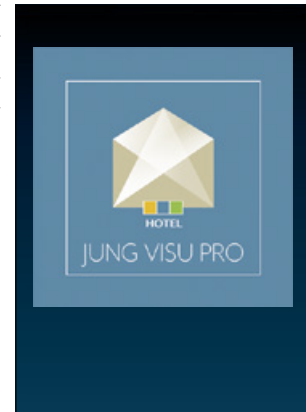
- Visualisation and operation of KNX systems via devices with HTML5 browser or app (iOS, Android), e.g. Smart Control (ref.-no.: SC 5 SW, SC 0081 U), smartphone, tablet, laptop, PC, etc.
- Support of KNX IP Secure and KNX Data Secure (as of version 4.5)
- Connection to KNX bus via interfaces (ref.-no. IPR 300 SREG, IPS 300 SREG, 20320 1S IPS R, 2131 USBS REG, 2131 USBS), not included

Product characteristics

- Access from max. 20 different clients possible (with Windows 10)
- Integration of Amazon Alexa voice control via MyJUNG account
- Integration of Google Home voice control via MyJUNG account
- Secure remote access via MyJUNG account
- Update and upgrade compatible

Process connections

- KNX editor/ KNX editor 2.0
- instalight editor
- Device editor
- vitaLED editor
- XPL editor
- SENEK energy storage
- Process model
- Visualisation editor
- Work sheet generator
- Calendar
- JUNG Visu Pro Starter

**JUNG VISU PRO HOTEL**

The JUNG Visu Pro Hotel Software has interfaces to the property management systems Protel and Micros Fidelio (Oracle Hospitality). There is also an interface to Visionline available, the modern hotel locking system from Assa Abloy. In this way, hotel and control software are linked intelligently. The JUNG software enables you to connect up to 150 rooms with functions and processes such as check-in/check-out etc. with only one licence. Licences can be operated in parallel for larger systems. Linking these processes supports an efficient workflow. For example, it is possible via an app for Housekeeping to see which room has already been cleaned. Completed room cleaning can be documented by Housekeeping in real time and shared with colleagues.

Technical requirements

Hardware

- As for Visu Pro Server (ref.-no.: JVP-SERVER-H2) or better

Please note: The performance of the hardware is one of the limiting factors for the project size.

Operating systems

- Windows 10

KNX editor

The Falcon driver of the KNX Association is used for the KNX bus.

The KNX connection requires a suitable version of the Falcon driver and the respective interfaces.

Data import from ETS

- ETS5: use of project export of ETS
- ETS4: use of project export of ETS
- ETS3: use of OPC export of ETS
- ETS2 version 1.1, 1.2 and 1.3: files generated by "print export" can be read
- Previous ETS versions: not possible

Special function HOTEL

Extension of the KNX editor to max. 150 KNX tunnel connections

Communication via KNX IP Secure Tunnelling

Integration of third-party systems:

- Door locking systems of Assa Abloy
 - Guest card identification
 - Staff card identification
 - Access counter / documentation
 - Evaluation of the door locking system
- Hotel booking software Protel PMS
 - Guest identification per room
 - Receive requests from the hotel room (e.g. Do not disturb, Make up room etc.)
 - Change the room temperature of the PMS system
- Oracle Hospitality OPERA or Oracle Hospitality Suite 8 PMS
 - Guest identification per room
 - Receive requests from the hotel room (e.g. Do not disturb, Make up room etc.)
 - Change the room temperature of the PMS system

Floor pilot light AS / A range

Ref.-no.

**SCHUKO® socket 16 A / 250 V ~
with LED floor pilot light
with integrated brightness sensor
with enhanced contact protection (shutter)**

Screwless terminals for wires up to 2.5 mm²
Installation into flush box min. 63 mm (depth)
with white LEDs (colour temperature 4000 K)
Power consumption stand-by / ON: 0.3 / 0.5 W
Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

ivory	A 1520-O LNW
white	A 1520-O WW LNW
black	A 1520-O SW LNW

Thermoplastic (breakproof) lacquered

aluminium	A 1520-O AL LNW
champagne	A 1520-O CH LNW
mocha	A 1520-O MO LNW

matt lacquered

matt snow white	A 1520-O WWM LNW
matt graphite black	A 1520-O SWM LNW
matt anthracite	A 1520-O ANM LNW

**LED floor pilot light
with integrated brightness sensor**

Screwless terminals for wires up to 2.5 mm²
Installation into flush box min. 63 mm (depth)
with white LEDs (colour temperature 4000 K)
Power consumption stand-by / ON: 0.3 / 0.5 W
Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

ivory	A 1539-O LNW
white	A 1539-O WW LNW
black	A 1539-O SW LNW

Thermoplastic (breakproof) lacquered

aluminium	A 1539-O AL LNW
champagne	A 1539-O CH LNW
mocha	A 1539-O MO LNW

matt lacquered

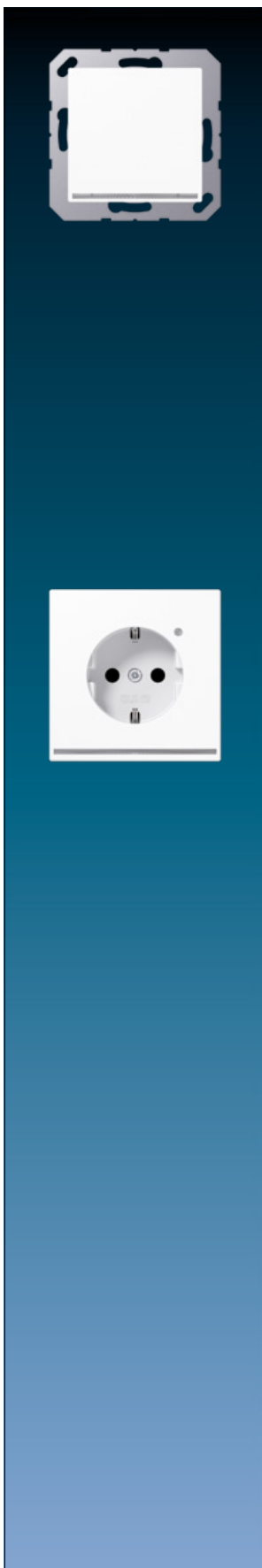
matt snow white	A 1539-O WWM LNW
matt graphite black	A 1539-O SWM LNW
matt anthracite	A 1539-O ANM LNW



Floor pilot light

AS / A range

LS range



Ref.-no.

LED floor pilot light

Screwless terminals for wires up to 2.5 mm²
 Installation into flush box min. 63 mm (depth)
 with white LEDs (colour temperature 4000 K)
 Power consumption (ON): 0.5 W

The floor pilot light can be switched via an external switch.

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

ivory	A 1539-OO LNW
white	A 1539-OO WW LNW
black	A 1539-OO SW LNW

Thermoplastic (breakproof) lacquered

aluminium	A 1539-OO AL LNW
champagne	A 1539-OO CH LNW
mocha	A 1539-OO MO LNW

matt lacquered

matt snow white	A 1539-OO WWM LNW
matt graphite black	A 1539-OO SWM LNW
matt anthracite	A 1539-OO ANM LNW

SCHUKO® socket 16 A / 250 V ~

with LED floor pilot light

with integrated brightness sensor

with enhanced contact protection (shutter)

Screwless terminals for wires up to 2.5 mm²
 Installation into flush box min. 63 mm (depth)
 with white LEDs (colour temperature 4000 K)
 Power consumption stand-by / ON: 0.3 / 0.5 W

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

ivory	LS 1520-O LNW
white	LS 1520-O WW LNW
light grey	LS 1520-O LG LNW
black	LS 1520-O SW LNW

matt lacquered

matt snow white	LS 1520-O WWM LNW
matt graphite black	LS 1520-O SWM LNW

metal colours (thermoplastic lacquered)

aluminium (lacquered)	AL 1520-O LNW
stainless steel (lacquered)	ES 1520-O LNW
anthracite (lacquered)	AL 1520-O AN LNW
dark (lacquered)	AL 1520-O D LNW
classic brass (lacquered)	ME 1520-O C LNW
antique brass (lacquered)	ME 1520-O AT LNW

Floor pilot light LS range

Ref.-no.

LED floor pilot light

with integrated brightness sensor

Screwless terminals for wires up to 2.5 mm²
Installation into flush box min. 63 mm (depth)
with white LEDs (colour temperature 4000 K)
Power consumption stand-by / ON: 0.3 / 0.5 W
Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

ivory	LS 1539-O LNW
white	LS 1539-O WW LNW
light grey	LS 1539-O LG LNW
black	LS 1539-O SW LNW

matt lacquered

matt snow white	LS 1539-O WWM LNW
matt graphite black	LS 1539-O SWM LNW

metal colours (thermoplastic lacquered)

aluminium (lacquered)	AL 1539-O LNW
stainless steel (lacquered)	ES 1539-O LNW
anthracite (lacquered)	AL 1539-O AN LNW
dark (lacquered)	AL 1539-O D LNW
classic brass (lacquered)	ME 1539-O C LNW
antique brass (lacquered)	ME 1539-O AT LNW

LED floor pilot light

Screwless terminals for wires up to 2.5 mm²
Installation into flush box min. 63 mm (depth)
with white LEDs (colour temperature 4000 K)
Power consumption (ON): 0.5 W
The floor pilot light can be switched via an external switch.
Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

ivory	LS 1539-OO LNW
white	LS 1539-OO WW LNW
light grey	LS 1539-OO LG LNW
black	LS 1539-OO SW LNW

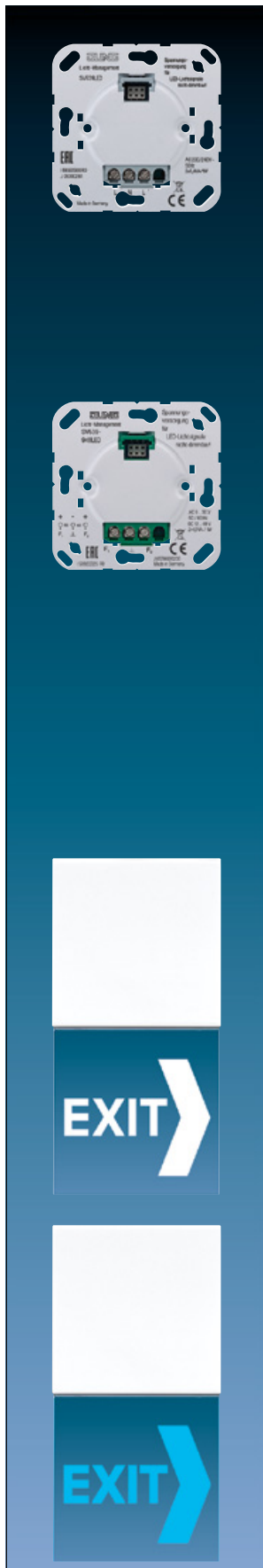
matt lacquered

matt snow white	LS 1539-OO WWM LNW
matt graphite black	LS 1539-OO SWM LNW

metal colours (thermoplastic lacquered)

aluminium (lacquered)	AL 1539-OO LNW
stainless steel (lacquered)	ES 1539-OO LNW
anthracite (lacquered)	AL 1539-OO AN LNW
dark (lacquered)	AL 1539-OO D LNW
classic brass (lacquered)	ME 1539-OO C LNW
antique brass (lacquered)	ME 1539-OO AT LNW





Ref.-no.

Power supply insert

screw fixing only, without claws

The LED power supply insert is exclusively used for LED pilot light and LED info signs (ref.-no. ..539..).

The device is not dimmable.

AC 230/240 V ~, 50 Hz

SV 539 LED

Technical data

Rated voltage:	AC 230/240 V ~, 50 Hz
Ambient temperature:	0 ... +40 °C
Terminals:	L, N, L'
Protection class (with mounted cover):	II
Power consumption (with mounted cover):	typ. 2 x 5.4 VA / 2 x 1.0 W
Connection:	screw terminals
Terminals for:	2 x 2.5 mm ² or 1 x 4 mm ²

Power supply insert

screw fixing only, without claws

The LED power supply insert is exclusively used for LED pilot light and LED info signs (ref.-no. ..539..).

The device is not dimmable.

AC 9 ... 36 V ~, 50 Hz; DC 12 ... 48 V

SV 539-948 LED

Technical data

Rated voltage	
AC-mode operation:	AC 9 ... 36 V ~, 50 Hz
DC operation:	DC 12 ... 48 V
Ambient temperature:	0 ... +40 °C
Terminals:	F ₁ , L, F ₂
Protection class (with mounted cover):	II
Power consumption (with mounted cover)	
AC-mode operation:	2 x 1.5 VA
DC operation:	2 x 1.0 W
Connection:	screw terminals
Terminals for:	2 x 2.5 mm ² or 1 x 4 mm ²

LED info sign

with neutral inscription field.

Dimensions: Info sign 71 x 71 mm (complete device 71 x 142 mm).

Operation only with power supply ref.-no. SV 539 LED or SV 539-948 LED.

For complete installation a frame of the respective design range (LS/AL/ES) is required.

with white LEDs

white (aluminium lacquered)	LS 539 N71WWLED W
light grey (aluminium lacquered)	LS 539 N71LGLED W
black (aluminium lacquered)	LS 539 N71SWLED W

metal versions

aluminium	AL 2539 N71LED W
stainless steel (aluminium lacquered)	ES 2539 N71LED W
anthracite (aluminium lacquered)	AL 2539 N71AN LED W

LED info sign

with neutral inscription field.

Dimensions: Info sign 71 x 71 mm (complete device 71 x 142 mm).

Operation only with power supply ref.-no. SV 539 LED or SV 539-948 LED.

For complete installation a frame of the respective design range (LS/AL/ES) is required.

with blue LEDs

white (aluminium lacquered)	LS 539 N71WWLED B
light grey (aluminium lacquered)	LS 539 N71LGLED B
black (aluminium lacquered)	LS 539 N71SWLED B

metal versions

aluminium	AL 2539 N71LED B
stainless steel (aluminium lacquered)	ES 2539 N71LED B
anthracite (aluminium lacquered)	AL 2539 N71AN LED B

Ref.-no.

LED info sign

with neutral inscription field.

Dimensions: Info sign 71 x 71 mm (complete device 71 x 142 mm).

Operation only with power supply ref.-no. SV 539 LED or SV 539-948 LED.

For complete installation a frame of the respective design range (LS/AL/ES) is required.

with RGB LEDs

white (aluminium lacquered)	LS 539 N71WW RGB
light grey (aluminium lacquered)	LS 539 N71LG RGB
black (aluminium lacquered)	LS 539 N71SW RGB

metal versions

aluminium	AL 2539 N71 RGB
stainless steel (aluminium lacquered)	ES 2539 N71 RGB
anthracite (aluminium lacquered)	AL 2539 N71AN RGB

The following colours can be selected with the 3-pole DIP switch on the reverse side of the device:

red, blue, green, purple, yellow, light blue, white

For individual inscriptions on LED info signs please visit our website

www.jung.de/en > Service > LED Info signs – Inscription

LED red/green pilot light

Operation only with power supply ref.-no. SV 539 LED or SV 539-948 LED.

Device with two light pads.

Connection of L and N for green LEDs, L' and N for red LEDs.

Inscription is possible with printings on transparent foil.

white (aluminium lacquered)	LS 539-2 WW LED RG
light grey (aluminium lacquered)	LS 539-2 LG LED RG
black (aluminium lacquered)	LS 539-2 SW LED RG

metal versions

aluminium	AL 2539-2 LED RG
stainless steel (aluminium lacquered)	ES 2539-2 LED RG
anthracite (aluminium lacquered)	AL 2539-2 AN LED RG
classic brass	ME 2539-2 LED RG C
antique brass	ME 2539-2 LED RG AT

LED pilot light

with white and blue LEDs

Operation only with power supply ref.-no. SV 539 LED or SV 539-948 LED.

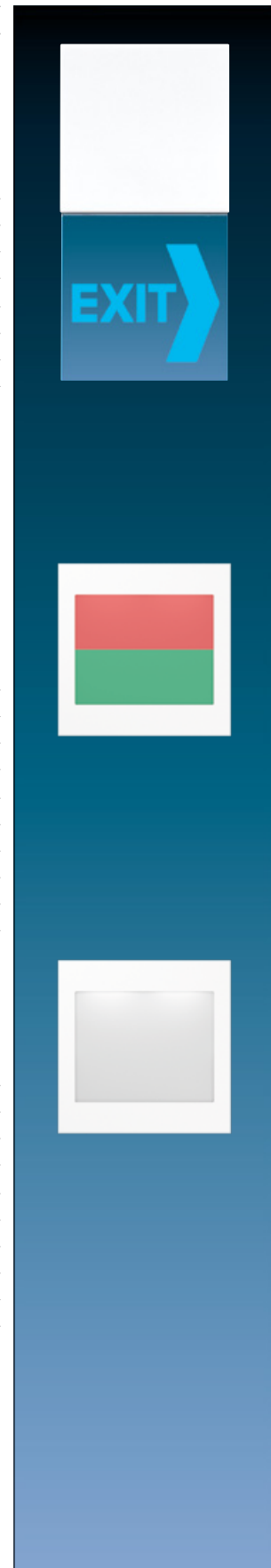
Connection of L and N for white LEDs, L' and N for blue LEDs.

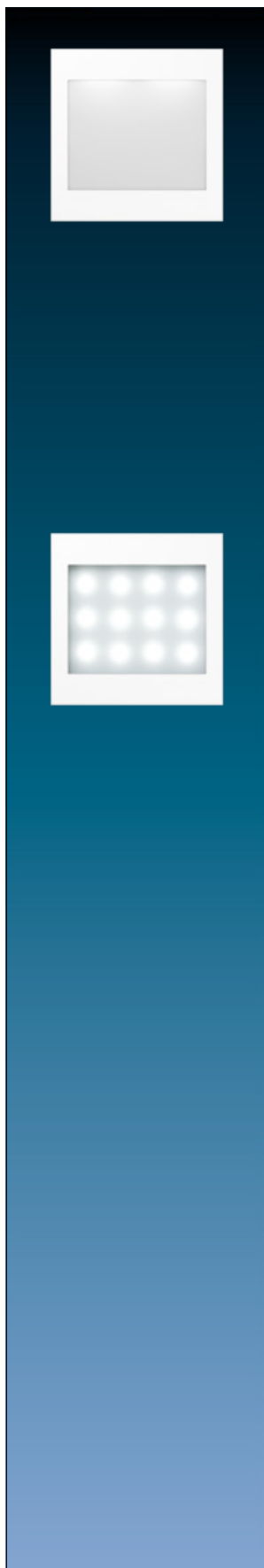
Inscription is possible with printings on transparent foil.

white (aluminium lacquered)	LS 539 WW LEDWB
light grey (aluminium lacquered)	LS 539 LG LEDWB
black (aluminium lacquered)	LS 539 SW LEDWB

metal versions

aluminium	AL 2539 LEDWB
stainless steel (aluminium lacquered)	ES 2539 LEDWB
anthracite (aluminium lacquered)	AL 2539 AN LEDWB
classic brass (lacquered)	ME 2539 LEDWB C
antique brass (lacquered)	ME 2539 LEDWB AT





Ref.-no.

LED pilot light with RGB LEDs

Operation only with power supply ref.-no. SV 539 LED or SV 539-948 LED.

Connect L, L' and N or F₁, F₂ and ⊥ of the power supply.

Inscription is possible with printings on transparent foil.

white (aluminium lacquered)	LS 539 WW RGB
light grey (aluminium lacquered)	LS 539 LG RGB
black (aluminium lacquered)	LS 539 SW RGB

metal versions

aluminium	AL 2539 RGB
stainless steel (aluminium lacquered)	ES 2539 RGB
anthracite (aluminium lacquered)	AL 2539 AN RGB
dark (aluminium lacquered)	AL 2539 RGB D
classic brass (lacquered)	ME 2539 RGB C
antique brass (lacquered)	ME 2539 RGB AT

The following colours can be selected with the 3-pole DIP switch on the reverse side of the device:
red, blue, green, purple, yellow, light blue, white

LED reading light with white LEDs

Operation only with power supply ref.-no. SV 539 LED or SV 539-948 LED.

Connect L, L' and N or F₁, F₂ and ⊥ of the power supply.

white (aluminium lacquered)	LS 539 WW LED LW-12
light grey (aluminium lacquered)	LS 539 LG LED LW-12
black (aluminium lacquered)	LS 539 SW LED LW-12

metal versions

aluminium	AL 2539 LED LW-12
stainless steel (aluminium lacquered)	ES 2539 LED LW-12
anthracite (aluminium lacquered)	AL 2539 AN LED LW-12

Ref.-no.

LED pilot light

for glass cover ref.-no.: .. CU KO6 TX ..

LED KO6 TX 24

Intended use

- LED pilot light for use in dry indoor areas
- Installation in flush box according to EN 60670-1

Product characteristics

- Customised labelling, symbols or text in combination with glass cover
- Backlight in white, red, green or orange
- Color change via separate switch, e.g. ref.-no.: 505 U or 505 KO5 VEU M 24 (not included)

Technical data

Rated voltage:	DC 24 V SELV
Rated capacity:	< 1.5 W
Ambient temperature:	-5 ... +45 °C

Glass cover

for LED pilot light ref.-no.: LED KO6 TX 24

The cover is lacquered on the back and can be lasered individually using the Graphic Tool.

Order only via Graphic Tool: www.jung.de/gt

for AS and A ranges

white	 A CU KO6 TX WW
black	 A CU KO6 TX SW

for LS range



white	 LS CU KO6 TX WW
black	 LS CU KO6 TX SW

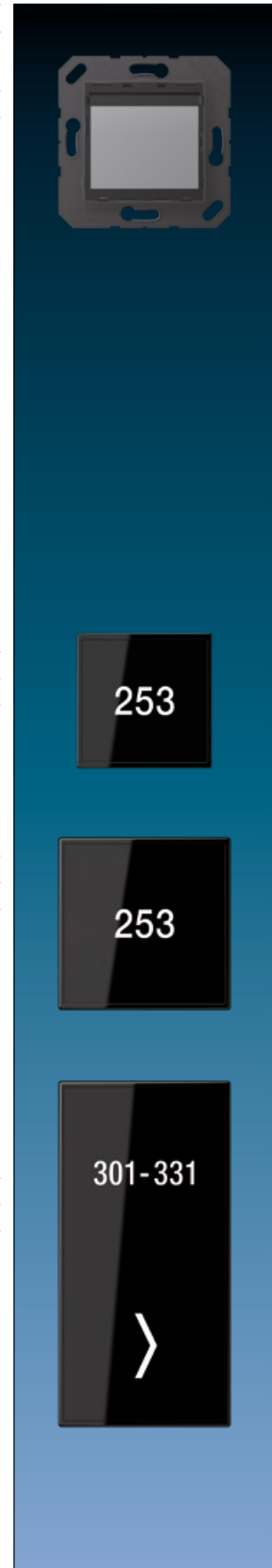
Glass cover 2-gang

for 2 LED pilot lights ref.-no.: LED KO6 TX 24

The cover is lacquered on the back and can be lasered individually using the Graphic Tool.

Order only via Graphic Tool: www.jung.de/gt

white	 LS CU KO6 TX-2 WW
black	 LS CU KO6 TX-2 SW



Plug & Light



THE LIGHT SOCKET

Plug & Light redefines interior lighting and makes light control incredibly easy. For perfectly dimmable LED light in the matching JUNG switch design. With Plug & Light, switch and light design comes from a single source and can therefore be specifically tailored to the interior.

Light attachments

PLUG & LIGHT LED SPOTLIGHT

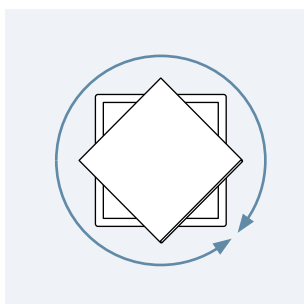
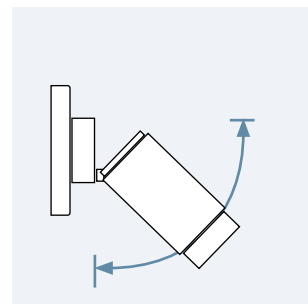
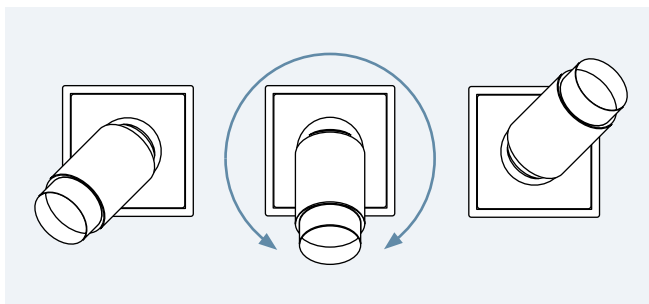
Matching with the switch designs, JUNG also offers two LED light attachments in addition to the light socket.

The Plug & Light spotlight has a three-stage adjustable glare protection and can produce the appropriate lighting effects on ceilings and walls.



PLUG & LIGHT LED WALL LUMINAIRE

The design of the Plug & Light wall luminaire is reminiscent of a classic switch. With glare-free optics, it sets accent lighting or is used as work light. The light attachments guarantee optimum light distribution over the entire dimming range and can be rotated 360° without any stops.



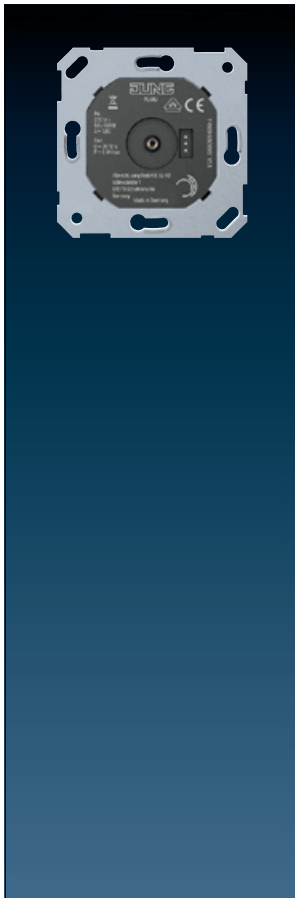
WARM DIM

Dimming like with a classic incandescent lamp.



4000 K

2700 K



Ref.-no.

Power supply Plug & Light

PL 08 U

Intended use

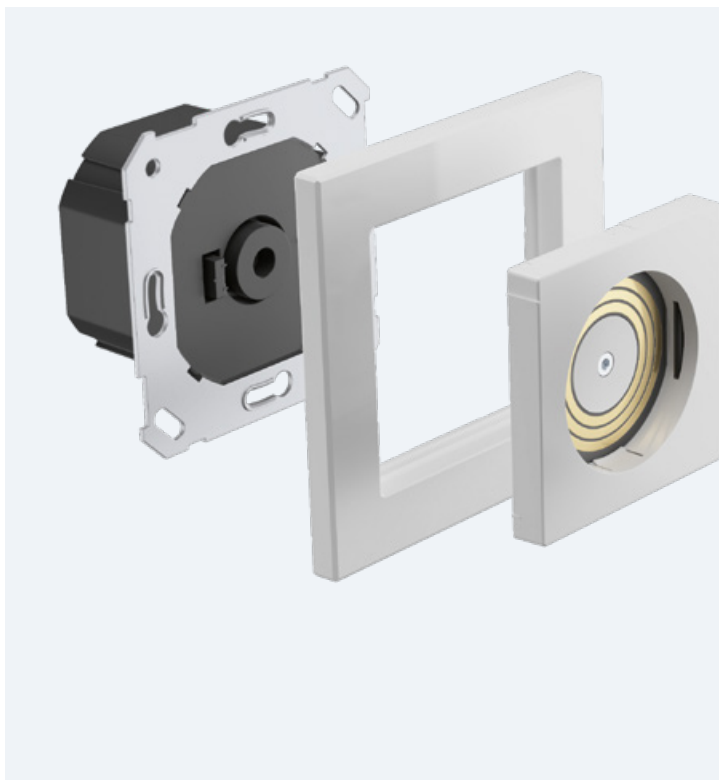
- Ballast for switching and dimming light attachments from the Plug & Light system
- Connection to switch, switch inserts with relay contact, electronic switch inserts (trailing edge phase control principle, ref.-no. 1704 ESE), 2-wire LED dimmer (trailing edge phase control principle) and 3-wire LED dimmer (trailing edge phase control principle)
- Compatible dimmers: 1224 LED UDE, 1710 DE, 1711 DE, 1730 DD, 1731 DD, 1724 DM, UD 1755 REG, ULZ 1755 REG, FM UD 420250 REG, FM UD 5500 REG, FM UD 20250 UP, 3901 REGHE, 3902 REGHE, 39004 1S R
- Installation in flush box according to EN 60670-1

Product characteristics

- Automatic detection of the connected light attachments
- Safe extra low voltage SELV DC

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50/60 Hz
Stand-by power (without light attachment and dimmer):	380 mW
Output voltage:	12 V ± 600 mV
Input current:	typical 75 mA
Connected load:	max. 8 W
Power factor:	typical 0.6
Efficiency:	approx. 79 %
Connection:	screw terminals
Terminals for:	2.5 mm ²
Protection class:	II
Ambient temperature:	+5 ... +35 °C
Storage/transport temperature:	-25 ... +70 °C



PLUG-IN LIGHTING MOODS

The Plug & Light system is designed as a modular system. It consists of a flush-mounted insert with the electronics, a frame, the light socket and a light attachment. JUNG provides compatible frames and covers for Plug & Light. The switch ranges A 550, A CREATION, A FLOW, LS 990, LS DESIGN, LS PLUS and LS ZERO perfectly match the modern LED system.

The light attachment is held in place on the light socket by a strong magnet. Three gold-plated sliding contacts provide the necessary electrical connection. In addition to the power supply, the sliding contacts together with the attachment and light socket regulate the dimming process.

Ref.-no.

Centre plate

for power supply Plug & Light, ref.-no.: PL 08 U

Product characteristics

- Magnetic fixing of light attachments
- Mechanical securing of light attachments for ceiling mounting and as dismantling protection
- Electrical coupling via gold-plated sliding contacts

for A range

Thermoplastic (breakproof) high-gloss

white	PL A DMS WW
black	PL A DMS SW

Thermoplastic (breakproof) lacquered

aluminium	PL A DMS AL
-----------	-------------

for LS range

Thermoplastic (breakproof) high-gloss

white	PL LS DMS WW
black	PL LS DMS SW

metal colours (thermoplastic lacquered)

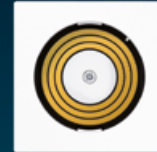
aluminium (lacquered)	PL AL DMS-L
stainless steel (lacquered)	PL ES DMS-L

Release magnet

for dismantling Plug & Light luminaires

can also be used to reset WLAN access points ref.-no. WLAN-AC-..

PL MAGNET 01





Ref.-no.

LED spotlight Plug & Light

for power supply Plug & Light, ref.-no.: PL 08 U

white	PL S1 D05 WW
white – black	PL S1 D05 WW SW
black	PL S1 D05 SW SW
aluminium – black	PL S1 D05 AL SW

Product characteristics

- Dimming with suitable LED dimmer at constant colour temperature of 2700 K • Symmetrical optics, beam angle of 35° • Flicker-free light over the entire dimming range • Light attachment can be changed during ongoing operation • Adjustable anti-glare ring via 3 latch positions (5, 10 and 15 mm) • Swivelling by 90° • Stepless rotation through 360°

Technical data

Rated voltage:	DC 12 V SELV
Power consumption:	5.6 W
Connection mode:	electrical coupling via gold-plated sliding contacts
Protection class:	III
Luminous flux:	390 lm
Colour temperature:	2,700 K
Colour rendering index:	typical 85
Beam angle:	35 °
Diameter:	42 mm
Length without anti-glare ring:	80 mm
Length with anti-glare ring:	85 ... 95 mm
Housing material:	aluminium lacquered / plastic
Energy efficiency class:	A++ to A

This luminaire contains built-in LED lamps, which cannot be replaced.

LED spotlight (warm dim) Plug & Light

for power supply Plug & Light, ref.-no.: PL 08 U

white	PL S1 WD05 WW
white – black	PL S1 WD05 WW SW
black	PL S1 WD05 SW SW
aluminium – black	PL S1 WD05 AL SW

Product characteristics

- Changing the colour temperature between 2700 K and 4000 K with simultaneous brightness increase from minimum to maximum, with suitable LED dimmer • Symmetrical optics, beam angle of 35° • Flicker-free light over the entire dimming range • Light attachment can be changed during ongoing operation • Adjustable anti-glare ring via 3 latch positions (5, 10 and 15 mm) • Swivelling by 90° • Stepless rotation through 360°

Technical data

Rated voltage:	DC 12 V SELV
Power consumption:	5.6 W
Connection mode:	electrical coupling via gold-plated sliding contacts
Protection class:	III
Luminous flux:	350 lm
Colour temperature:	2,700 ... 4,000 K
Colour rendering index:	typical 85
Beam angle:	35 °
Diameter:	42 mm
Length without anti-glare ring:	80 mm
Length with anti-glare ring:	85 ... 95 mm
Housing material:	aluminium lacquered / plastic
Energy efficiency class:	A++ to A

This luminaire contains built-in LED lamps, which cannot be replaced.

Ref.-no.

LED wall luminaire Plug & Light

for power supply Plug & Light, ref.-no.: PL 08 U

Thermoplastic (breakproof) high-gloss

white	PL F1 D05 WW
black	PL F1 D05 SW

metal colours (thermoplastic lacquered)

aluminium (lacquered)	PL F1 D05 AL-L
stainless steel (lacquered)	PL F1 D05 ES-L

Product characteristics

- Accent lighting or work light • Dimming with suitable LED dimmer at constant colour temperature of 2700 K
- Non-glare asymmetrical optics • Flicker-free light over the entire dimming range • Light attachment can be changed during ongoing operation • Stepless rotation through 360°

Technical data

Rated voltage:	DC 12 V SELV
Power consumption:	4.1 W
Connection mode:	electrical coupling via gold-plated sliding contacts
Protection class:	III
Dimensions (W x H x D):	70 x 70 x 17 mm
Luminous flux:	290 lm
Colour temperature:	2,700 K
Colour rendering index:	typical 90
Beam angle:	asymmetrical light distribution
Energy efficiency class:	A++ to A

This luminaire contains built-in LED lamps, which cannot be replaced.

LED wall luminaire (warm dim) Plug & Light

for power supply Plug & Light, ref.-no.: PL 08 U

Thermoplastic (breakproof) high-gloss

white	PL F1 WD05 WW
black	PL F1 WD05 SW

metal colours (thermoplastic lacquered)

aluminium (lacquered)	PL F1 WD05 AL-L
stainless steel (lacquered)	PL F1 WD05 ES-L

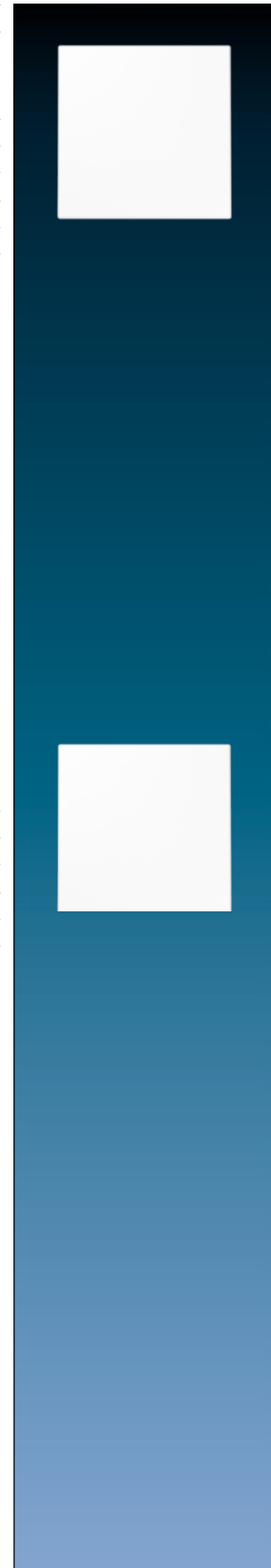
Product characteristics

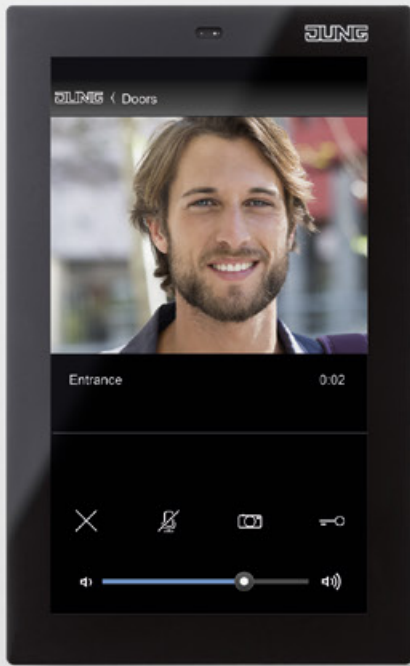
- Accent lighting or work light • Changing the colour temperature between 2700 K and 4000 K with simultaneous brightness increase from minimum to maximum, with suitable LED dimmer • Non-glare asymmetrical optics • Flicker-free light over the entire dimming range • Light attachment can be changed during ongoing operation • Stepless rotation through 360°

Technical data

Rated voltage:	DC 12 V SELV
Power consumption:	4.1 W
Connection mode:	electrical coupling via gold-plated sliding contacts
Protection class:	III
Dimensions (W x H x D):	70 x 70 x 17 mm
Luminous flux:	290 lm
Colour temperature:	2,700 ... 4,000 K
Colour rendering index:	typical 90
Beam angle:	asymmetrical light distribution
Energy efficiency class:	A++ to A

This luminaire contains built-in LED lamps, which cannot be replaced.

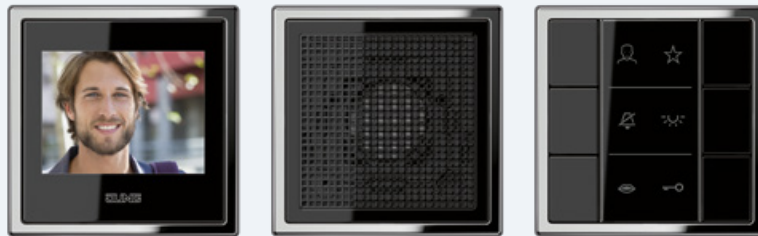




Door communication

The elegant video and audio indoor stations in the JUNG design are impressive with their variety of design and function. Technically, they are perfectly compatible with Siedle door stations.

VIDEO INDOOR STATION



LS 990 with chrome frame

AUDIO INDOOR STATION



LS 990 in aluminium

STANDARD INDOOR STATION



A CREATION with glass frame

Door communication with high standards: the JUNG video and audio indoor stations in switch design are impressive in their functionality and look. Not only do they have a particularly large selection of designs, they are also perfectly compatible with Siedle door

stations thanks to the use of Siedle system technology. The advantages: easy operation and a new variety of possibilities. The JUNG indoor stations fit in harmoniously with the rest of the electrical installation in the overall design.

Standard audio indoor station

Product characteristics

- Calling, speech, door release, light, storey call, switching/control functions and internal communication
- 2-wire installation (J-Y(St)Y 2 x 2 x 0.8), protected against polarity reversal
- Speech button with green status LED
- Light and mute buttons are freely configurable. Button functions can be triggered without supplementary installation, e.g. for internal telephony, to initiate switching/control functions in conjunction with Siedle bus switching module BSM/BSE 650-..., selective dialling of door loudspeakers (outdoor stations)
- Using the BPS, a switching function can be configured to the door release button (in conjunction with the Siedle bus switching module BSM/BSE 650-..).
- Integrated audio privacy function
- Parallel switching (simultaneous calling) of max. 4 audio modules or audio indoor stations (from the 3rd device, Siedle BPS is required for programming)
- Speech connection possible at any time, also without a preceding door call
- Connection for Siedle In-Home bus
- Connection for storey call button
- Call generator with 11 ring tone melodies, including chime
- Ring tone volume adjustable in 5 steps up to 83 dB(A)
- Voice volume adjustable in 5 steps
- Programming manual, Plug+Play and using Siedle bus programming software (BPS), in accordance with the Siedle system manual
- Indoor station with handsfree communication
- Status indication during active speech connection
- Call silencing with status indication
- Call differentiation for storey call, 2 door calls and internal call
- Door release / light function at any time via the bus line
- 3 LEDs as indicators (e.g. door open) without additional wiring
- Ready status indicated by an LED
- Optical call indication by flashing LED at the speech button

Ref.-no.

Standard audio indoor station

stand alone device for surface mounting, no frame required

Thermoplastic (breakproof) high-gloss

ivory

SI 4 A W

white

SI 4 A WW

Thermoplastic (breakproof) lacquered

aluminium

SI 4 A AL

- Dimensions (W x H x D): 58 x 129 x 21.5 mm

Conversion kit

for standard audio indoor station

for installation with 2- to 5-gang frames of the AS and A ranges

SI 46074 AD KIT

**Standard audio indoor station Design
for AS and A ranges**

surface-mounted

The device can be installed into 2- to 5-gang frames.

Thermoplastic (breakproof) high-gloss

ivory

SI 4 AD W

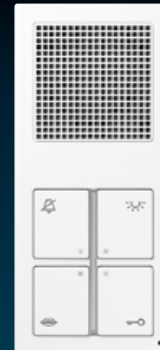
white

SI 4 AD WW

Thermoplastic (breakproof) lacquered

aluminium

SI 4 AD AL



SI 4 A WW



SI 46074 AD KIT



SI 4 AD WW

Audio indoor station

including cover kit and labelling foil
without frame

The modules of the indoor station can be installed into multiple frames (horizontally or vertically).
Installation in separate frames or surface caps is possible.

Product characteristics

- Calling, speech, door release, light, storey call, switching/control functions and internal communication
- 2-wire installation (J-Y(St)Y 2 x 2 x 0.8), protected against polarity reversal
- Speech button with green status LED
- Light, mute and two function buttons are freely configurable. Button functions can be triggered without supplementary installation, e.g. for internal telephony, to initiate switching/control functions in conjunction with Siedle bus switching module BSM/BSE 650-..., selective dialling of door loudspeakers (outdoor stations)
- Using the BPS, a switching function can be configured to the door release button (in conjunction with the Siedle bus switching module BSM/BSE 650-..).
- Integrated audio privacy function
- Parallel switching (simultaneous calling) of max. 4 audio modules or audio indoor stations (from the 3rd device, Siedle BPS is required for programming)
- Speech connection possible at any time, also without a preceding door call
- High-quality sound and great loudspeaker dynamics
- Elektret condenser microphone
- Connection for Siedle In-Home bus
- Connection for storey call button
- Call generator with 11 ring tone melodies, including chime
- Ring tone volume adjustable in 5 steps up to 92 dB(A)
- Voice volume adjustable in 5 steps
- Programming manual, Plug+Play and using Siedle bus programming software (BPS), in accordance with the Siedle system manual
- Indoor station with handsfree communication
- Status indication during active speech connection
- Call silencing with status indication
- Call differentiation for storey call, 2 door calls and internal call
- Door release / light function at any time via the bus line
- Door call pickup
- Group formation for door calls. Each indoor station can belong to up to 4 groups in the same line
- Intercom functions:
 - Call forwarding
 - Internal group call
 - Automatic call pickup with internal call
 - Doormatic
- 5 LEDs as indicators (e.g. door open) without additional wiring
- Ready status indicated by an LED
- Optical call indication by flashing LED at the speech button
- Inscription field
- Labelling foils with symbols for audio and video included
- Audio connection cable (red, 220 mm) included

Ref.-no.

**Audio indoor station
for AS and A ranges**

Thermoplastic (breakproof) high-gloss

ivory	SI AI A 6 W
white	SI AI A 6 WW
black	SI AI A 6 SW

Thermoplastic (breakproof) lacquered

aluminium	SI AI A 6 AL
champagne	SI AI A 6 CH
mocha	SI AI A 6 MO

matt lacquered

matt anthracite	SI AI A 6 ANM
-----------------	---------------

for CD range

Thermoplastic (breakproof) high-gloss

ivory	SI AI CD 6 W
white	SI AI CD 6 WW

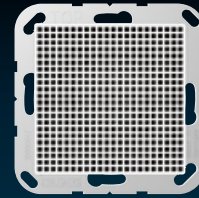
for LS range

Thermoplastic (breakproof) high-gloss

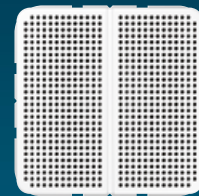
ivory	SI AI LS 6 W
white	SI AI LS 6 WW
light grey	SI AI LS 6 LG
black	SI AI LS 6 SW

metal versions

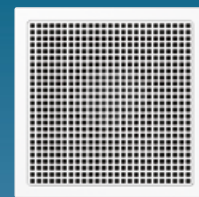
aluminium	SI AI AL 6
stainless steel	SI AI ES 6
anthracite (aluminium lacquered)	SI AI AL 6 AN
dark (aluminium lacquered)	SI AI AL 6 D



SI AI A 6 WW



SI AI CD 6 WW



SI AI LS 6 WW

Video indoor stations

including cover kit and labelling foil
without frame

The modules of the indoor station can be installed into multiple frames (horizontally or vertically).
Installation in separate frames or surface caps is possible.

A supplementary supply is required for the operation of the video indoor station. Recommendation:
NG 706-30/33-0 from Siedle (see Siedle planning manual).

Product characteristics

- TFT colour monitor
- Screen diagonal 55 mm (2.2") for A range and 70 mm (2.7") for CD and LS ranges
- 320 x 240 pixels
- Brightness and colour setting
- Video connection cable (black, 220 mm) included
- Calling, speech, vision, door release, light, storey call, switching/control functions and internal communication
- 2-wire installation, protected against polarity reversal; 2-pole supplementary supply required (J-Y(St)Y 2 x 2 x 0.8)
- Automatic video connection at door call
- Speech button with green status LED
- Light, mute, monitor and function button are freely configurable. Button functions can be triggered without supplementary installation, e.g. for internal telephony, to initiate switching/control functions in conjunction with Siedle bus switching module BSM/BSE 650-..., selective dialling of door loudspeakers (outdoor stations)/cameras
- Using the BPS, a switching function can be configured to the door release button (in conjunction with the Siedle bus switching module BSM/BSE 650-..).
- Integrated audio and video privacy function
- Parallel switching (simultaneous calling) of max. 16 video indoor stations (from the 3rd device, Siedle BPS is required for programming)
- Speech/video connection at any time, also without a preceding door call
- High-quality sound and great loudspeaker dynamics
- Elektret condenser microphone
- Connection for Siedle In-Home bus
- Connection for storey call button
- Call generator with 11 ring tone melodies, including chime
- Ring tone volume adjustable in 5 steps up to 92 dB(A)
- Voice volume adjustable in 5 steps
- Programming manual, Plug+Play and using Siedle bus programming software (BPS), in accordance with the Siedle system manual
- Indoor station with handsfree communication
- Status indication during active speech connection
- Call silencing with status indication
- Call differentiation for storey call, 2 door calls and internal call
- Door release / light function at any time via the bus line
- Door call pickup
- Group formation for door calls. Each indoor station can belong to up to 4 groups in the same line
- Intercom functions:
 - Call forwarding
 - Internal group call
 - Collective announcement
 - Automatic call pickup with internal call
 - Doormatic
- Connection for supplementary supply (required for operation of a video module, illumination of the inscription field in the universal push-button module, and when connecting a second push-button module)

Ref.-no.

Video indoor station 2.2"
for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	SI VI A 622 W
white	SI VI A 622 WW
black	SI VI A 622 SW

Thermoplastic (breakproof) lacquered

aluminium	SI VI A 622 AL
champagne	SI VI A 622 CH
mocha	SI VI A 622 MO

matt lacquered

matt anthracite	SI VI A 622 ANM
-----------------	-----------------

Video indoor station 2.7"
for CD range

Thermoplastic (breakproof) high-gloss

ivory	SI VI CD 627 W
white	SI VI CD 627 WW

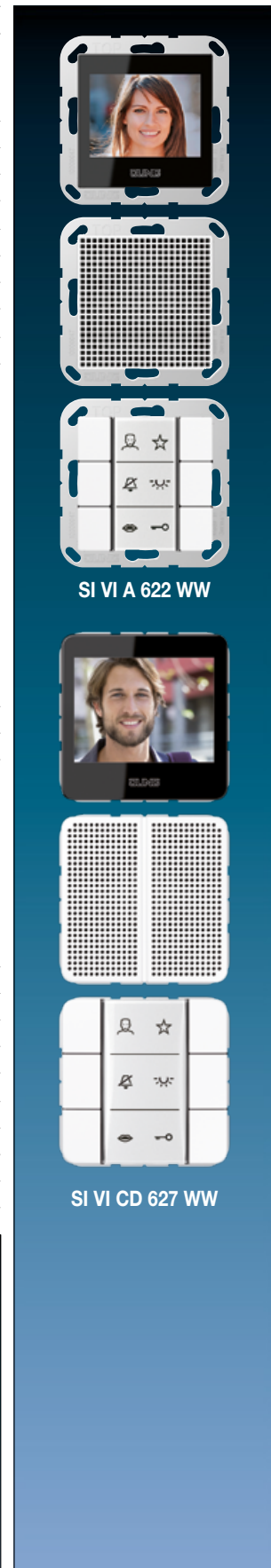
Video indoor station 2.7"
for LS range

Thermoplastic (breakproof) high-gloss

ivory	SI VI LS 627 W
white	SI VI LS 627 WW
light grey	SI VI LS 627 LG
black	SI VI LS 627 SW

metal versions

aluminium	SI VI AL 627
stainless steel	SI VI ES 627
anthracite (aluminium lacquered)	SI VI AL 627 AN
dark (aluminium lacquered)	SI VI AL 627 D



SI VI LS 627 WW

Ref.-no.

Single components:

Audio module

Product characteristics

- Can also be used as a secondary signal unit (bell)
- Calling and storey call
- 2-wire installation (J-Y(St)Y 2 x 2 x 0.8), protected against polarity reversal
- Parallel switching (simultaneous calling) of max. 4 audio modules or audio indoor stations (from the 3rd device, Siedle BPS is required for programming)
- High-quality sound and great loudspeaker dynamics
- Elektret condenser microphone
- Connection for Siedle In-Home bus
- Connections for storey call button and to additional modules
- Call generator with 11 ring tone melodies, including chime
- Ring tone volume adjustable in 5 steps up to 92 dB(A)
- Voice volume adjustable in 5 steps
- Programming manual, Plug+Play and using Siedle bus programming software (BPS), in accordance with the Siedle system manual
- Automatic call pickup with internal call

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	SI AM A 5 W
white	SI AM A 5 WW
black	SI AM A 5 SW

Thermoplastic (breakproof) lacquered

aluminium	SI AM A 5 AL
champagne	SI AM A 5 CH
mocha	SI AM A 5 MO

matt lacquered

matt anthracite	SI AM A 5 ANM
-----------------	---------------

for CD range

Thermoplastic (breakproof) high-gloss

ivory	SI AM CD 5 W
white	SI AM CD 5 WW

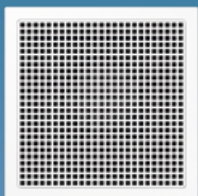
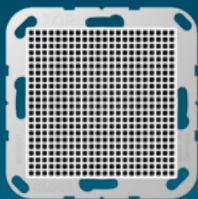
for LS range

Thermoplastic (breakproof) high-gloss

ivory	SI AM LS 5 W
white	SI AM LS 5 WW
light grey	SI AM LS 5 LG
black	SI AM LS 5 SW

metal versions

aluminium	SI AM AL 5
stainless steel	SI AM ES 5
anthracite (aluminium lacquered)	SI AM AL 5 AN
dark (aluminium lacquered)	SI AM AL 5 D



Ref.-no.

Standard push-button module

for audio module and as extension module for a Universal push-button module
To be completed with cover kit 3-gang (ref.no.: .. 503 TSA ..)

Product characteristics

- 5 LEDs as indicators (e.g. door open) without additional wiring
- Ready status indicated by an LED
- Optical call indication by flashing LED at the speech button
- Inscription field
- Labelling foils with symbols for audio and video included
- Audio connection cable (red, 220 mm) included

for AS and A ranges

SI TM A 5073

Cover kit 3-gang see page 662

for CD range

SI TM CD 5073

Cover kit 3-gang see page 665

for LS range

SI TM LS 5073

Cover kit 3-gang see page 668



SI TM A 5073



SI TM CD 5073



SI TM LS 5073

Ref.-no.

Universal push-button module

Is required for operation of a video module and when connecting a second push-button module (only in combination with supplementary supply, see Siedle planning manual).
To be completed with cover kit 3-gang (ref.no.: .. 503 TSA ..)

Product characteristics

- 5 LEDs as indicators (e.g. door open) without additional wiring
- Ready status indicated by an LED
- Optical call indication by flashing LED at the speech button
- Inscription field can be illuminated
- Labelling foils with symbols for audio and video included
- Audio connection cable (red, 220 mm) included
- Connection for supplementary supply (required for operation of a video module, illumination of the inscription field in the universal push-button module, and when connecting a second push-button module)
- Connection for an additional push-button module (standard or universal, max. 2 push-button modules per indoor station)



SI TM A 5093

for AS and A ranges

SI TM A 5093

Cover kit 3-gang see page 662



SI TM CD 5093

for CD range

SI TM CD 5093

Cover kit 3-gang see page 665



SI TM LS 5093

for LS range

SI TM LS 5093

Cover kit 3-gang see page 668

Ref.-no.

Video module 2.2"

Product characteristics

- TFT colour monitor
- Screen diagonal 55 mm (2.2")
- 320 x 240 pixels
- Brightness and colour setting
- Video connection cable (black, 220 mm) included
- Operation only in combination with universal push-button module and audio module

for AS and A ranges

SI VM 22 A

Video module 2.7"

Product characteristics

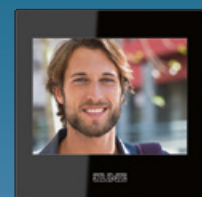
- TFT colour monitor
- Screen diagonal 70 mm (2.7")
- 320 x 240 pixels
- Brightness and colour setting
- Video connection cable (black, 220 mm) included
- Operation only in combination with universal push-button module and audio module

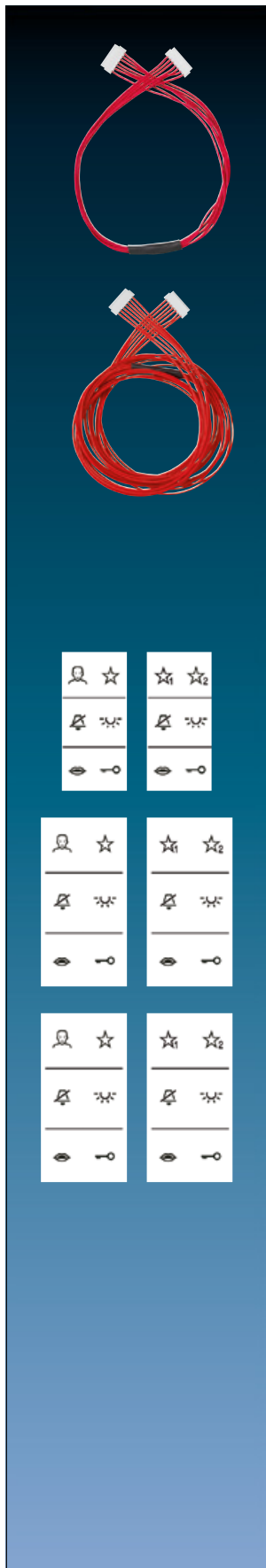
for CD range

SI VM 27 CD

for LS range

SI VM 27 LS





Ref.-no.

Connection cable

(Spare part)
for connecting the modules in a multiple frame

red	audio	SI AM-AK 22
black	video	SI VM-AK 22

Technical data

Cable length: 220 mm

Connection cable

Using the optionally available connection cables, the modules can be positioned up to 500 mm apart from each other.

red	audio	SI AM-AK 70
black	video	SI VM-AK 70

Technical data

Cable length: 700 mm

Labelling foil

(Spare part)
labelling foils with symbols, one for audio and one for video

for AS and A ranges

SI AV 6 A

for CD range

SI AV 6 CD

for LS range

SI AV 6 LS

Ref.-no.

**Symbol cover audio
for AS and A ranges**

with printed symbols
to clip on audio indoor station (ref.-no.: SI AI A 6 ..)
or push-button modules (ref.-no.: SI TM A 5073, SI TM A 5093)
dimensions: 25 x 55 mm

Thermoplastic (breakproof) high-gloss

ivory	SI A6 A DC W
white	SI A6 A DC WW
black	SI A6 A DC SW

Thermoplastic (breakproof) lacquered

aluminium	SI A6 A DC AL
champagne	SI A6 A DC CH
mocha	SI A6 A DC MO

matt lacquered

matt anthracite	SI A6 A DC ANM
-----------------	----------------

**Symbol cover video
for AS and A ranges**

with printed symbols
to clip on video indoor station (ref.-no.: SI VI A 622 ..)
or push-button modules (ref.-no.: SI TM A 5073, SI TM A 5093)
dimensions: 25 x 55 mm

Thermoplastic (breakproof) high-gloss

ivory	SI V6 A DC W
white	SI V6 A DC WW
black	SI V6 A DC SW

Thermoplastic (breakproof) lacquered

aluminium	SI V6 A DC AL
champagne	SI V6 A DC CH
mocha	SI V6 A DC MO

matt lacquered

matt anthracite	SI V6 A DC ANM
-----------------	----------------

**Symbol cover audio
for CD range**

with printed symbols
to clip on audio indoor station (ref.-no.: SI AI CD 6 ..)
or push-button modules (ref.-no.: SI TM CD 5073, SI TM CD 5093)
dimensions: 33 x 68 mm

Thermoplastic (breakproof) high-gloss

ivory	SI A6 CD DC W
white	SI A6 CD DC WW

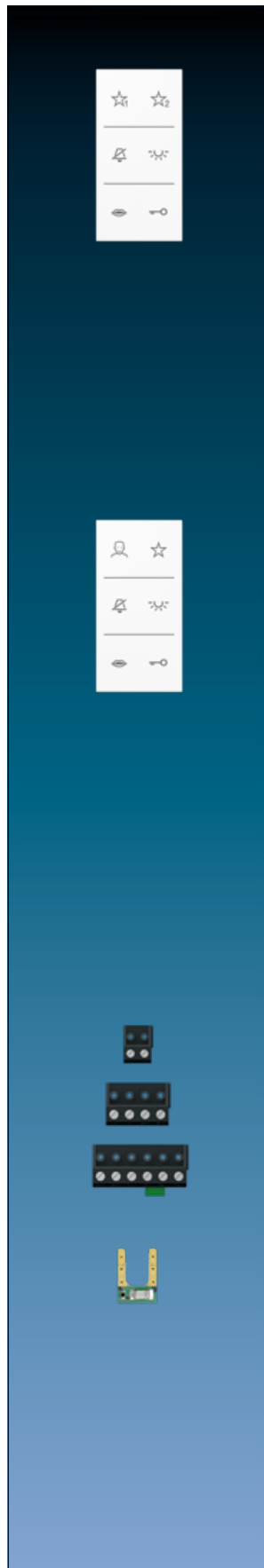
**Symbol cover video
for CD range**

with printed symbols
to clip on video indoor station (ref.-no.: SI VI CD 627 ..)
or push-button modules (ref.-no.: SI TM CD 5073, SI TM CD 5093)
dimensions: 33 x 68 mm

Thermoplastic (breakproof) high-gloss

ivory	SI V6 CD DC W
white	SI V6 CD DC WW





Ref.-no.

Symbol cover audio for LS range

with printed symbols

to clip on audio indoor station (ref.-no.: SI AI LS 6 ..., SI AI AL 6 ..., SI AI ES 6)
or push-button modules (ref.-no.: SI TM LS 5073, SI TM LS 5093)

dimensions: 33 x 70.5 mm

Thermoplastic (breakproof) high-gloss

ivory	SI A6 LS DC W
white	SI A6 LS DC WW
light grey	SI A6 LS DC LG
black	SI A6 LS DC SW

metal colours (thermoplastic lacquered)

aluminium (lacquered)	SI A6 AL DC
stainless steel (lacquered)	SI A6 ES DC
anthracite (lacquered)	SI A6 AL DC AN
dark (lacquered)	SI A6 AL DC D

Symbol cover video for LS range

with printed symbols

to clip on video indoor station (ref.-no.: SI VI LS 627 ..., SI VI AL 627, SI VI ES 627)
or push-button modules (ref.-no.: SI TM LS 5073, SI TM LS 5093)

dimensions: 33 x 70.5 mm

Thermoplastic (breakproof) high-gloss

ivory	SI V6 LS DC W
white	SI V6 LS DC WW
light grey	SI V6 LS DC LG
black	SI V6 LS DC SW

metal colours (thermoplastic lacquered)

aluminium (lacquered)	SI V6 AL DC
stainless steel (lacquered)	SI V6 ES DC
anthracite (lacquered)	SI V6 AL DC AN
dark (lacquered)	SI V6 AL DC D

other colours on request

Connection block

(Spare part)

2-gang	SI KB 2
4-gang	SI KB 4
6-gang	SI KB 6

Terminating resistor video

(Spare part)

A terminating resistor is connected between the TaM and TbM terminals of the audio module.

This terminating resistor is required if the modular indoor station is the last device in a video line.

If you loop the bus through the modular indoor station, this terminating resistor must be removed.

SI V-RC

Smart Control 8 see page 699

Ref.-no.

Smart Control 5

for installation in walls, capacitive touch screen
fanless, without rotating parts

black **SC 5 SW**

Intended use

- Visualisation and operation of system statuses and information on building automation
- For vertical installation
- Installation in flush box according to EN 60670-1
- Ensure correct orientation when installing the flush box. Mounting screws must be in vertical alignment.

Product characteristics

- KNX visualisation in combination with Visu Pro Server (ref.-no.: JVP-SERVER-H2)
- KNX visualisation in combination with Smart Visu Server (ref.-no.: SV-SERVER-INT)
- eNet visualisation in combination with eNet server for rail mounting (ref.-no.: ENET-SERVER) with software version 2.2 or higher
- Door call function only in combination with Siedle Smart Gateway SG 650-.. or SG 150-..
- High performance HD screen
- Proximity sensor
- Graphical user interface
- Brightness level of display adapts automatically to ambient brightness
- Smart Gateway with integrated image storage

Technical data

Rated voltage: DC 24 V SELV
 Rated capacity: 12 W
 Screen diagonal: 127 mm / 5"
 Resolution: 720 x 1280
 Frame dimensions (W x H): 81 x 132 mm
 Power supply: PoE acc. to IEEE 802.3af
 or DC 24 V via external power supply (not included)
 Processor: Cortex-A53
 Loudspeaker: integrated
 Microphone: integrated
 LAN connections: 1 x 10/100 Mbit/s
 Ambient temperature: 0 ... +30 °C

Power supply for rail mounting

for Smart Control ref.-no.: SC 5 SW
 Rail mounting device, 4 rail units

NT 2415 REG VDC

Technical data

Input voltage: AC 100 ... 240 V ~, 50/60 Hz
 Input current: 730 mA
 Output voltage: DC 24 V SELV
 Output current: 1.5 A
 Mounting width: 72 mm (4 rail units)
 Connection: screw terminals

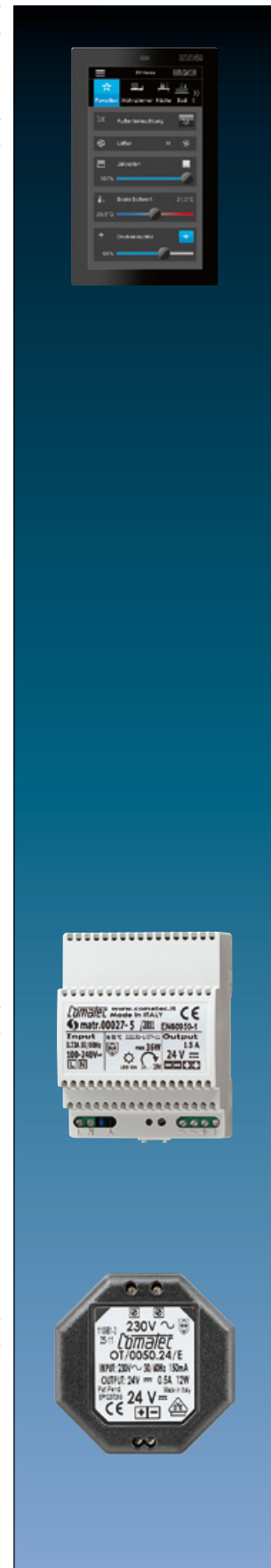
Flush-mounted power supply

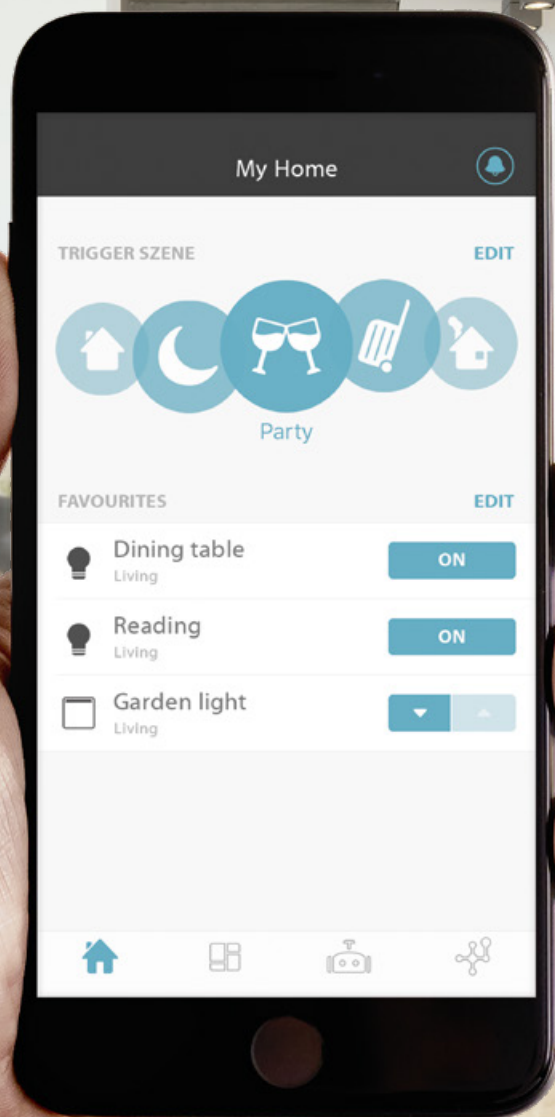
for Smart Control ref.-no.: SC 5 SW

NT 2405 VDC

Technical data

Input voltage: AC 230 V ~, 50/60 Hz
 Input current: 150 mA
 Output voltage: DC 24 V
 Output current: 500 mA
 Dimensions (Ø x H): 54 x 32 mm
 Connection: screw terminals





eNet SMART HOME

eNet SMART HOME is modern radio technology in a future-proof, networked system. It is operated via wall-mounted transmitters, touch displays, tablet and smartphone or via voice command – fully encrypted and secure, even for remote access.

eNet SMART HOME connect

This is the browser-based set-up interface for installers. It links the eNet transmitters to the actuators and makes or defines settings and performs diagnostics.



eNet SMART HOME app

The app is available in Android and iOS versions and enables operation of the eNet SMART HOME facility through a smartphone. Simple operation takes place through the home network or through remote access over the internet.



eNet SMART HOME remote

The home under control at all times: users can always access their eNet installation via the eNet SMART HOME app even when on the move. Up to eight end devices can be used with one registration. The information security of the remote access eNet SMART HOME remote (backend API) is verified by VDE.



The remote service is available to the user free of charge for 12 months.

eNet SMART HOME secure

The eNet SMART HOME is protected by targeted security measures. These include data security, the server location in Germany and protection against manipulation as well as pre-encrypted radio transmission.



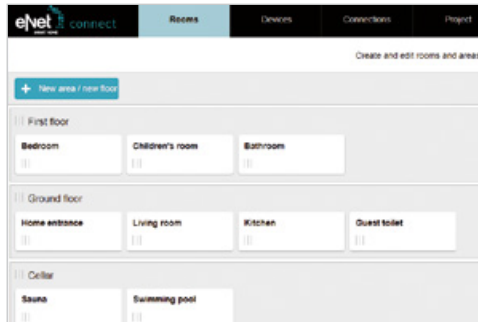
Secure communication

The information security of the remote access eNet SMART HOME remote (backend API) is verified by VDE.



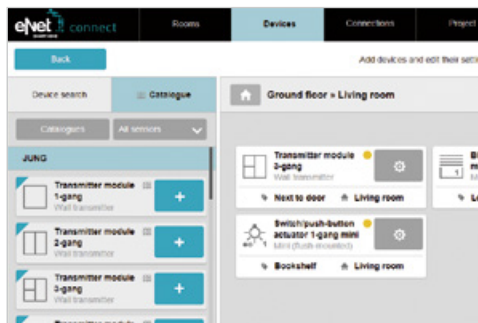
Easy to set up

The browser-based eNet SMART HOME connect set-up interface is already integrated in the eNet Server. This makes it convenient to assign devices, functions and installations on the display. The documentation and processing of created projects are easily done. As soon as the computer and the eNet Server are connected with each other, the application can be started.



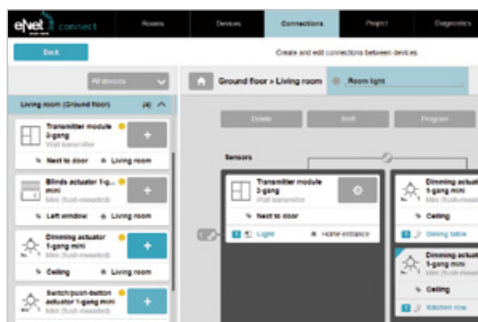
CREATING ROOMS

The rooms for a project are created first. These can be freely named. Careful structure planning is important, as this is reflected 1:1 in the visualisation.



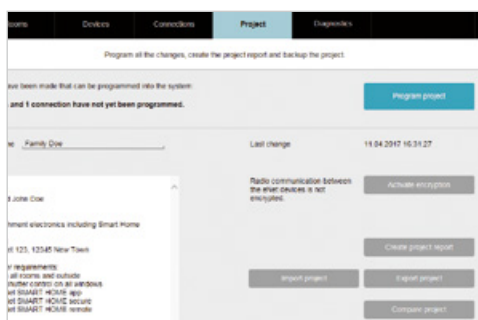
FINDING DEVICES AND ALLOCATING TO ROOMS

The device search is used to add devices from the eNet system to the project. In this way, all devices in learning mode or that have been connected to the electrical supply in the last few minutes are found and displayed. Afterwards, the devices can be allocated to rooms and the device channels named individually as appropriate for their use.



MAKING CONNECTIONS

Now, actuator and sensor channels are assigned to each other and functionally connected with each other. The devices networked in this way communicate with each other directly when operated, which results in a very robust, fail-safe function.



WRITING AND EXPORTING PROJECTS

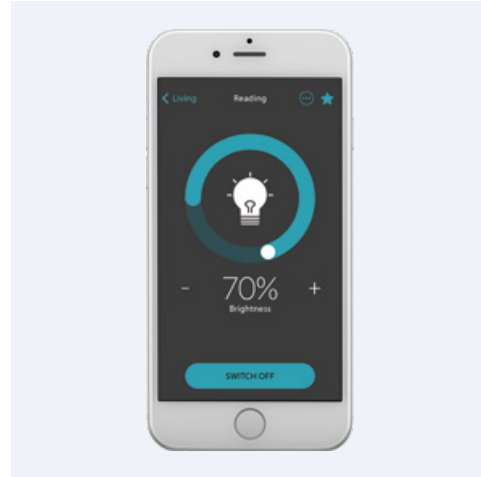
In the final step, the project design data are written to the devices. The app visualisation is generated automatically. In addition, the electrical installer can export the project, use it as a backup or as a template for future projects.

Everything under mobile control

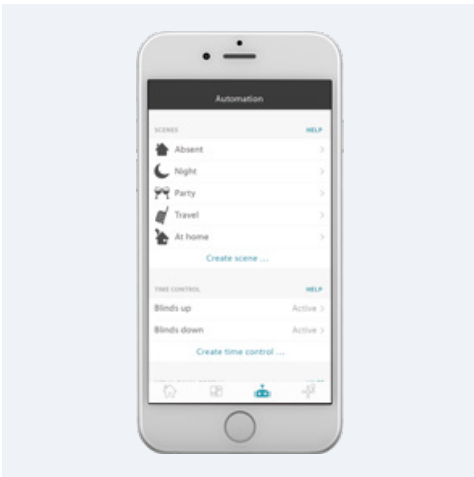
Control eNet SMART HOME from anywhere: simply via mobile app – whether in your own WLAN or via remote access. Including all settings affecting the Smart Home. Base: the eNet Server.



Display all rooms with their functions



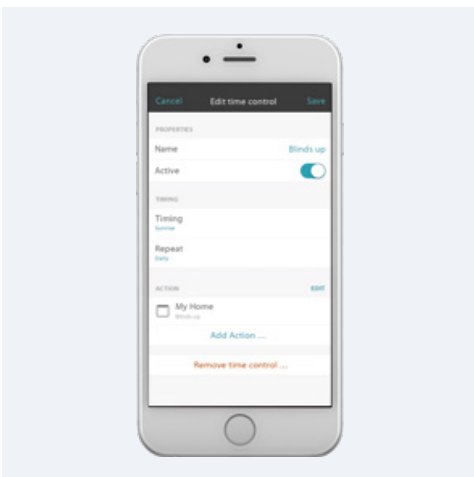
Simply record and control all functions



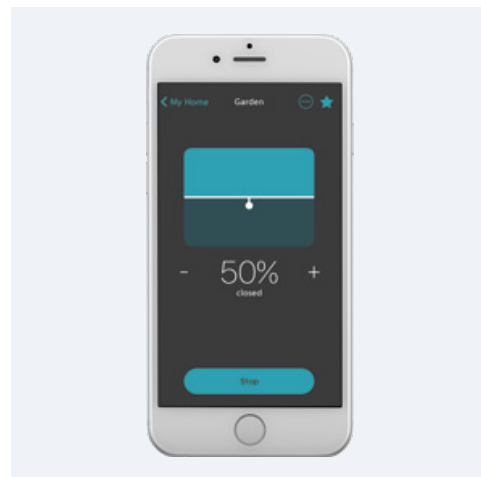
Combine functions into comfort scenes



Integrate smart heating control



Create time-controlled function sequences



Fingertip operation of all individual functions



Ref.-no.

eNet radio hand-held transmitter

1-gang Toggle

New system feature: Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0

anthracite

FM HS 1 T

Intended use

- Radio hand transmitter for radio transmission of switching, dimming, and blind movement commands
- Operation with radio actuators from the eNet system

Product characteristics

- One button for switching and dimming a channel
- Status indication with LED
- Battery-powered device
- Signalling of transmission errors can be switched off

Can be set with eNet server

- Scenes: All On, All Off, individual scenes
- Operating locks

Supplementary functions with eNet server

- Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0
- Update of the device software
- Reading of error memory

Technical data

Rated voltage:	DC 3 V
Battery type:	1 x lithium CR 2450N (included)
Ambient temperature:	-5 ... +45 °C
Dimensions (L x W x H):	55 x 40.5 x 15 mm
Radio frequency:	868.0 ... 868.6 MHz
Transmitting power:	max. 20 mW
Transmission range in free field:	typical 100 m
Receiver category:	2

eNet radio hand-held transmitter

2-gang

New system feature: Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0

anthracite

FM HS 2

Intended use

- Hand transmitter for radio transmission of switching, dimming, blind movement and scene commands
- Operation with radio actuators from the eNet system

Product characteristics

- Two adjacent buttons each belong to one channel
- Status indication with LED
- Switch-on brightness of dimmer actuators can be saved
- Battery-powered device
- Scenes, radio hand transmitter, 2x: All Off, three individual scenes
- Signalling of transmission errors can be switched off

Can be set with eNet server

- Scene All On
- Operating locks

Supplementary functions with eNet server

- Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0
- Update of the device software
- Reading of error memory

Technical data

Rated voltage:	DC 3 V
Battery type:	1 x lithium CR 2450N (included)
Ambient temperature:	-5 ... +45 °C
Dimensions (L x W x H):	55 x 40.5 x 15 mm
Radio frequency:	868.0 ... 868.6 MHz
Transmitting power:	max. 20 mW
Transmission range in free field:	typical 100 m
Receiver category:	2

Ref.-no.

eNet radio hand-held transmitter

4-gang

New system feature: Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0

anthracite

FM HS 4

Intended use

- Hand transmitter for radio transmission of switching, dimming, blind movement and scene commands
- Operation with radio actuators from the eNet system

Product characteristics

- Two adjacent buttons each belong to one channel
- Status indication with LED
- Switch-on brightness of dimmer actuators can be saved
- Battery-powered device
- Scenes, radio hand transmitter, 4x: All Off, seven individual scenes
- Signalling of transmission errors can be switched off

Can be set with eNet server

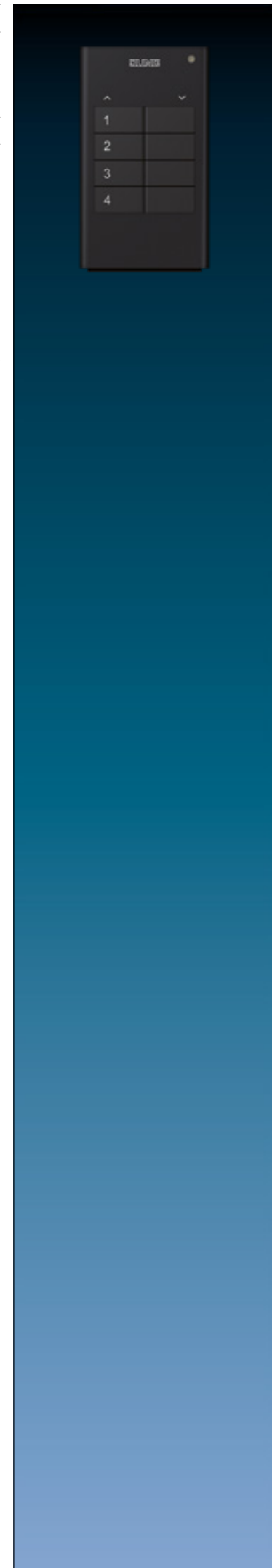
- Scene All On
- Operating locks

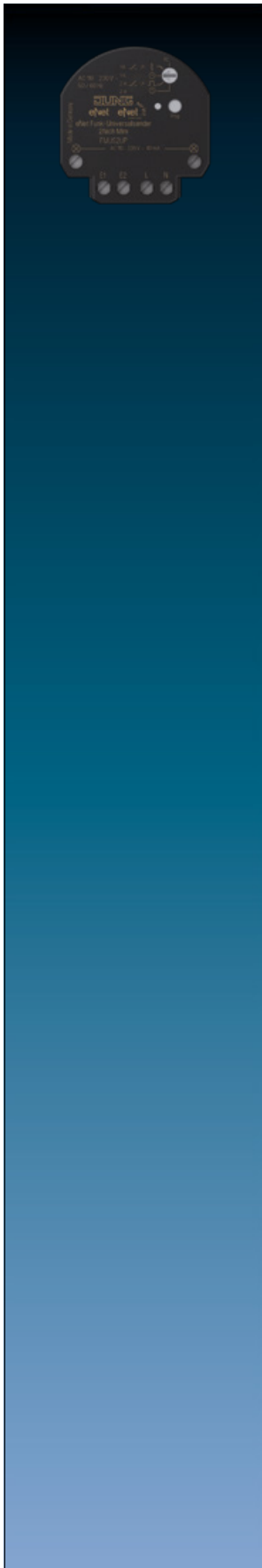
Supplementary functions with eNet server

- Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0
- Update of the device software
- Reading of error memory

Technical data

Rated voltage:	DC 3 V
Battery type:	1 x lithium CR 2450N (included)
Ambient temperature:	-5 ... +45 °C
Dimensions (L x W x H):	93 x 53 x 15.5 mm
Radio frequency:	868.0 ... 868.6 MHz
Transmitting power:	max. 20 mW
Transmission range in free field:	typical 100 m
Receiver category:	2





Ref.-no.

eNet universal radio transmitter mini 2-gang

New system feature: Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0

FM US 2 UP

Intended use

- Transmitter for radio communication of switching, dimming, blind movement and scene commands
- Activation by push-button, switch, shutter push-button, shutter switch or other devices with push-button contact or switching contact
- Installation in flush box according to EN 60670-1 in combination with a suitable cover
- Mounting in surface-mounted housing or mounting adapter (ref.-no. FM-EBG) for false ceilings
- Operation with radio actuators from the eNet system

Product characteristics

- Detection of voltage levels and changes on the input
- Settable transmission behaviour
- Connection for signal lamp – e.g. for connection of push-buttons with separate signal contact (ref.-no. 534 U)
- Display of transmission status with status LED or signal lamp

Operating modes, settable with operating mode switch:

- 1-gang switching/dimming/blind
- 1-gang automatic function
- 2-gang switching/dimming/push-button operation
- 2-gang automatic function
- Can be set with eNet server:
- Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0
- Scenes: All On, All Off, individual scenes
- 2-gang blind
- Operating locks
- Setup connections enabled/disabled
- Status for restraint
- Repeater function
- Update of the device software

Single- and dual-area operation

The operation of functions or electrical loads depends on the application and the connected components. The operation of the usual switching function follows if switches are connected. Two operating modes are used when push-buttons are connected:

- Single-area operation – lighting: Switching lighting on or off or dimming it brighter/darker takes place alternately when the appropriate button is pressed repeatedly.
- Dual-area operation – lighting: Two buttons form a function pair. Pressing the left button switches or dims lighting on or brighter, pressing the right one switches it off or makes it darker.
- Single-area operation – blind: Upward or downward movement takes place alternately when the appropriate button is pressed repeatedly.
- Dual-area operation – blind: Two buttons form a function pair. Pressing the left button moves a blind upwards, pressing the right one moves it downwards.

Technical data

Rated voltage:	AC 110 ... 230 V ~, 50/60 Hz
Stand-by power:	0.5 W
Ambient temperature:	-25 ... +70 °C
Inputs	
Cable length:	max. 100 m
Input current at rated voltage:	approx. 2 mA
Signal duration:	min. 200 ms
Signal lamp output	
Rated voltage (switching voltage):	AC 110 ... 230 V ~
Output current:	40 mA
Connection mode:	
single wire:	1 x 0.75 ... 4 mm ²
stranded with ferrule:	1 x 0.75 ... 2.5 mm ²
Dimensions (Ø x H):	53 x 23 mm
Radio frequency:	868.0 ... 868.6 MHz
Transmitting power:	max. 20 mW
Transmission range in free field:	typical 100 m
Receiver category:	2

Ref.-no.

eNet radio transmitter modules F 50

including mounting plate, adhesive film and fastening screw

New system feature: Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0

Intended use

- Radio sensor for transmission of switching, dimming, blind movement and scene commands
- Operation with radio actuators from the eNet system
- Mounting on flush box according to EN 60670-1, screw fixing on walls or adhesive fixing on smooth, even surfaces (glass)

Product characteristics

- Two adjacent buttons each belong to one channel
- Display of the actuator status for status poll by a green LED per channel
- Display of the transmission status by a red LED
- Switch-on brightness of dimmer actuators can be saved
- Battery-powered device (battery compartment accessible from front)
- Signalling of transmission errors can be switched off

Can be set with eNet server:

- Scene All On
- Operating locks

Supplementary functions with eNet server:

- Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0
- Update of the device software

Technical data

Rated voltage:	DC 3 V
Battery type:	1 x lithium CR 2450N (included)
Ambient temperature:	-5 ... +45 °C
Radio frequency:	868.0 ... 868.6 MHz
Transmitting power:	max. 20 mW
Transmission range in free field:	typical 100 m
Receiver category:	2

eNet radio transmitter modules F 50

for AS and A ranges

eNet radio transmitter module 1-gang

including transparent cover ref.-no.: A 50 NA

for cover kit 1-gang, ref.-no.: A 501 TSA ..

FM A 5001 M

eNet radio transmitter module 2-gang

including transparent cover ref.-no.: A 50 NA

for cover kit 2-gang, ref.-no.: A 502 TSA ..

FM A 5002 M

eNet radio transmitter module 3-gang

including transparent cover ref.-no.: A 50 NA

for cover kit 3-gang, ref.-no.: A 503 TSA ..

FM A 5003 M

eNet radio transmitter module 4-gang

including transparent cover ref.-no.: A 50 NA

for cover kit 4-gang, ref.-no.: A 504 TSA ..

FM A 5004 M

Cover kits see page 662





Ref.-no.

**eNet radio transmitter modules F 50
for CD range**

eNet radio transmitter module 1-gang
including transparent cover ref.-no.: CD 50 NA
for cover kit 1-gang, ref.-no.: CD 501 TSA ..

FM CD 5001 M

eNet radio transmitter module 2-gang
including transparent cover ref.-no.: CD 50 NA
for cover kit 2-gang, ref.-no.: CD 502 TSA ..

FM CD 5002 M

eNet radio transmitter module 3-gang
including transparent cover ref.-no.: CD 50 NA
for cover kit 3-gang, ref.-no.: CD 503 TSA ..

FM CD 5003 M

eNet radio transmitter module 4-gang
including transparent cover ref.-no.: CD 50 NA
for cover kit 4-gang, ref.-no.: CD 504 TSA ..

FM CD 5004 M

Cover kits see page 665

Ref.-no.

**eNet radio transmitter modules F 50
for LS range**

eNet radio transmitter module 1-gang

including transparent cover ref.-no.: LS 50 NA

for cover kit 1-gang, ref.-no.: ..501 TSA .. in the LS range

Cannot be combined with frames in FLAT DESIGN.

FM LS 5001 M

eNet radio transmitter module 2-gang

including transparent cover ref.-no.: LS 50 NA

for cover kit 2-gang, ref.-no.: ..502 TSA .. in the LS range

Cannot be combined with frames in FLAT DESIGN.

FM LS 5002 M

eNet radio transmitter module 3-gang

including transparent cover ref.-no.: LS 50 NA

for cover kit 3-gang, ref.-no.: ..503 TSA .. in the LS range

Cannot be combined with frames in FLAT DESIGN.

FM LS 5003 M

eNet radio transmitter module 4-gang

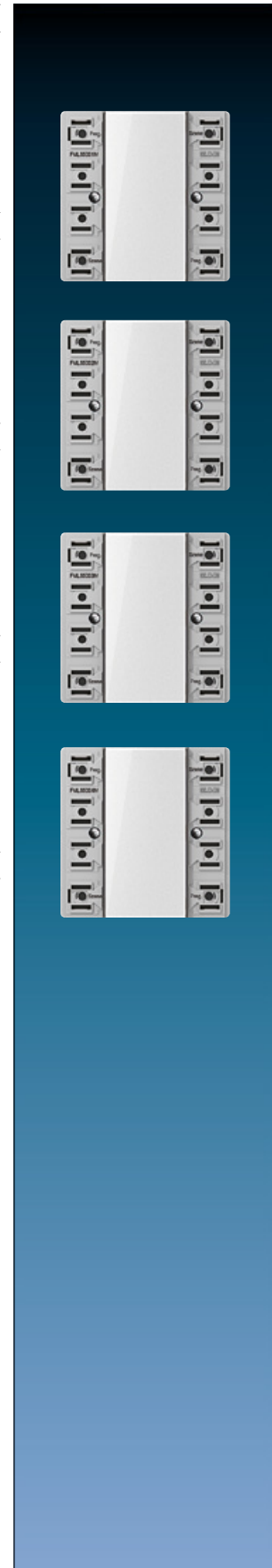
including transparent cover ref.-no.: LS 50 NA

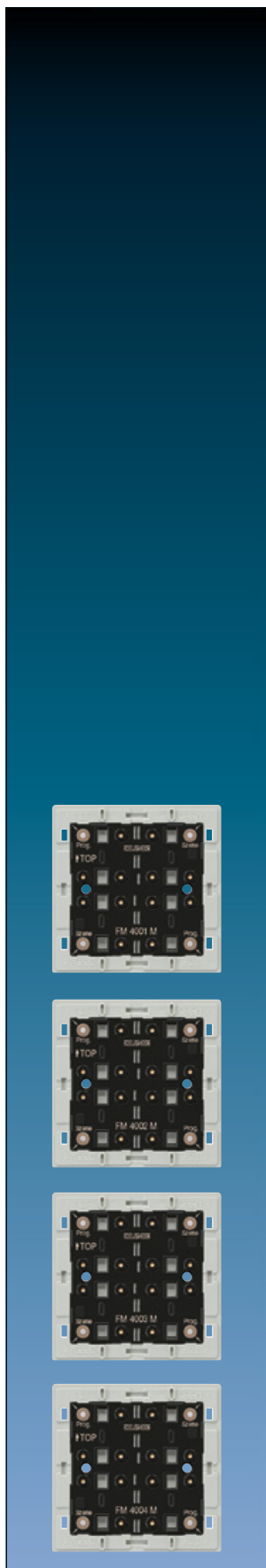
for cover kit 4-gang, ref.-no.: ..504 TSA .. in the LS range

Cannot be combined with frames in FLAT DESIGN.

FM LS 5004 M

Cover kits see page 668





Ref.-no.

eNet radio transmitter modules F 40

New system feature: Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0

Adapter frames are included in delivery:

ref.-no. LS 4 AR for LS range (pre-mounted) and ref.-no. CD 4 AR for CD range.

AS / A ranges without adapter frame.

including mounting plate, adhesive film and fastening screw

Cannot be combined with frames in FLAT DESIGN.

Intended use

- Radio sensor for transmission of switching, dimming, blind movement and scene commands
- Operation with radio actuators from the eNet system
- Mounting on flush box according to EN 60670-1, screw fixing on walls or adhesive fixing on smooth, even surfaces (glass)

Product characteristics

- Each button is "divided" into an upper and lower half belonging to a channel
- Display of the actuator status for status poll by a green LED per channel
- Display of the transmission status by a red LED
- Switch-on brightness of dimmer actuators can be saved
- Battery-powered device
- Signalling of transmission errors can be switched off

Can be set with eNet server:

- Scene All On
- Operating locks

Supplementary functions with eNet server:

- Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0
- Update of the device software

Technical data

Rated voltage:	DC 3 V
Battery type:	1 x lithium CR 2450N (included)
Ambient temperature:	-5 ... +45 °C
Radio frequency:	868.0 ... 868.6 MHz
Transmitting power:	max. 20 mW
Transmission range in free field:	typical 100 m
Receiver category:	2

eNet radio transmitter module 1-gang

for cover kit 1-gang, ref.-no.: .. 401 TSA ..

for cover 1-gang with symbols, ref.-no.: .. 401 TSAP ..

FM 4001 M

eNet radio transmitter module 2-gang

for cover kit 2-gang, ref.-no.: .. 402 TSA ..

for cover 2-gang with symbols, ref.-no.: .. 402 TSAP ..

FM 4002 M

eNet radio transmitter module 3-gang

for cover kit 3-gang, ref.-no.: .. 403 TSA ..

for cover 2-gang with symbols, ref.-no.: .. 402 TSAP ..

for cover 4-gang with symbols, ref.-no.: .. 404 TSAP ..

FM 4003 M

eNet radio transmitter module 4-gang

for cover kit 4-gang, ref.-no.: .. 404 TSA ..

for cover 4-gang with symbols, ref.-no.: .. 404 TSAP ..

FM 4004 M

Cover kits see page 671 – 673

eNet Standard radio centre plate

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE
 for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE,
 1710 DE, 1711 DE, 1713 DSTE, 1723 NE

Intended use

- Manual, radio-controlled and time-controlled operation of e.g. blinds, shutters, awnings, lighting or fans
- Transmitter for radio communication of switching, dimming and blind commands
- Operation with switch, dimmer or blinds insert or satellite insert 3-wire of the LB Management

Product characteristics

- Status feedback to radio transmitter
- Status indication with LED
- Night mode
- Evaluation of satellite inputs

Functions in combination with blinds insert

- Positioning of the blind/shutter via scene request
- Position for sun protection and twilight
- Running time and ventilation position of the blind/shutter can be saved

Functions in combination with light insert

- Scene operation possible
- Switch-on brightness can be saved permanently when combined with flush-mounted inserts for dimming

Functions in combination with relay switch insert 2-channel

- Output a2 switches depending on output a1 e.g. to switch on ventilation, depending on the lighting, and switch it off with a delay.
- Switch-on delay of output a2 adjustable
- Run-on time of output a2 adjustable

Can be set with eNet server from version 2.2 (depending on insert):

- Repeater function
- Slat change-over time/fabric-stretching time
- Change-over time for direction change
- Running direction invertible
- Operating locks
- Deactivating extension evaluation
- Position for sun protection, twilight, lock-out protection and wind alarm
- Maximum brightness
- Minimum brightness
- Dimming speed
- Switch-on delay / switch-off delay
- Dim up/dim down ramp
- Switch-off warning
- Continuous on, Continuous off
- Hotel function
- Run-on time
- Light control

In order to use the eNet Standard radio centre plate, the eNet Server has to have at least version 2.3.

Supplementary functions with eNet server:

- Fully-encrypted radio transmission (AES-CCM)
- Update of the device software
- Reading of error memory



	Ref.-no.
eNet Standard radio centre plate	
for AS range	
Duroplastic (scratch-proof) glossy	
ivory	FM AS 1700
white	FM AS 1700 WW
for A range	
Duroplastic (scratch-proof) glossy	
white	FM A 1700 WW
black	FM A 1700 SW
Duroplastic lacquered	
aluminium	FM A 1700 AL
champagne	FM A 1700 CH
mocha	FM A 1700 MO
Thermoplastic (breakproof) high-gloss	
white	📦 FM A 1700 BF WW
black	📦 FM A 1700 BF SW
matt lacquered	
matt snow white	FM A 1700 BF WWM
matt graphite black	FM A 1700 BF SWM
matt anthracite	FM A 1700 BF ANM
for CD range	
Duroplastic (scratch-proof) glossy	
ivory	FM CD 1700
white	FM CD 1700 WW
brown	FM CD 1700 BR
grey	FM CD 1700 GR
light grey	FM CD 1700 LG
black	FM CD 1700 SW
metal colours (duroplastic lacquered)	
gold-bronze	FM CD 1700 GB
platinum	FM CD 1700 PT
for LS range	
Duroplastic (scratch-proof) glossy	
ivory	FM LS 1700
white	FM LS 1700 WW
light grey	FM LS 1700 LG
black	FM LS 1700 SW
matt lacquered	
matt snow white	FM LS 1700 WWM
matt graphite black	FM LS 1700 SWM
metal versions	
aluminium	📦 FM AL 1700
stainless steel	📦 FM ES 1700
anthracite (aluminium lacquered)	FM AL 1700 AN
dark (aluminium lacquered)	FM AL 1700 D
chrome	FM GCR 1700
gold-coloured	FM GO 1700
classic brass	FM ME 1700 C
antique brass	FM ME 1700 AT

Ref.-no.

eNet Standard radio centre plate "arrows"

for AS range

Duroplastic (scratch-proof) glossy

ivory	FM AS 1700 P
white	FM AS 1700 P WW

for A range

Duroplastic (scratch-proof) glossy

white	FM A 1700 P WW
black	FM A 1700 P SW

Duroplastic lacquered

aluminium	FM A 1700 P AL
champagne	FM A 1700 P CH
mocha	FM A 1700 P MO

Thermoplastic (breakproof) high-gloss

white	FM A 1700 BFP WW
black	FM A 1700 BFP SW

matt lacquered

matt snow white	FM A 1700 BFP WWM
matt graphite black	FM A 1700 BFP SWM
matt anthracite	FM A 1700 BFP ANM

for CD range

Duroplastic (scratch-proof) glossy

ivory	FM CD 1700 P
white	FM CD 1700 P WW
brown	FM CD 1700 P BR
grey	FM CD 1700 P GR
light grey	FM CD 1700 P LG
black	FM CD 1700 P SW

metal colours (duroplastic lacquered)

gold-bronze	FM CD 1700 P GB
platinum	FM CD 1700 P PT

for LS range

Duroplastic (scratch-proof) glossy

ivory	FM LS 1700 P
white	FM LS 1700 P WW
light grey	FM LS 1700 P LG
black	FM LS 1700 P SW

matt lacquered

matt snow white	FM LS 1700 P WWM
matt graphite black	FM LS 1700 P SWM

metal versions

aluminium	FM AL 1700 P
stainless steel	FM ES 1700 P
anthracite (aluminium lacquered)	FM AL 1700 P AN
dark (aluminium lacquered)	FM AL 1700 P D
chrome	FM GCR 1700 P
gold-coloured	FM GO 1700 P
classic brass	FM ME 1700 P C
antique brass	FM ME 1700 P AT



eNet radio centre plate

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE

for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE,
1710 DE, 1711 DE, 1713 DSTE, 1723 NE

Intended use

- Manual, radio-controlled and time-controlled operation of e.g. blinds, shutters, awnings, lighting or fans
- Transmitter for radio communication of switching, dimming and blind commands
- Operation with switch, dimmer or blinds insert or satellite insert 3-wire of the LB Management

Product characteristics

- 2 switching times can be saved, which are repeated in a 24-hour cycle
- Disabling function
- Status feedback to radio transmitter
- Status indication with LED
- Night mode
- Evaluation of satellite inputs

Functions in combination with blinds insert

- Positioning of the blind/shutter via scene request
- Position for sun protection and twilight
- Running time and ventilation position of the blind/shutter can be saved

Functions in combination with light insert

- Scene operation possible
- Switch-on brightness can be saved permanently when combined with flush-mounted inserts for dimming

Functions in combination with relay switch insert 2-channel

- Output a2 switches depending on output a1 e.g. to switch on ventilation, depending on the lighting, and switch it off with a delay.
- Switch-on delay of output a2 adjustable
- Run-on time of output a2 adjustable

Can be set with eNet server from version 2.2 (depending on insert):

- Repeater function
- Slat change-over time/fabric-stretching time
- Change-over time for direction change
- Running direction invertible
- Operating locks
- Deactivating extension evaluation
- Position for sun protection, twilight, lock-out protection and wind alarm
- Maximum brightness
- Minimum brightness
- Dimming speed
- Switch-on delay / switch-off delay
- Dim up/dim down ramp
- Switch-off warning
- Continuous on, Continuous off
- Hotel function
- Run-on time
- Light control

Supplementary functions with eNet server:

- Fully-encrypted radio transmission (AES-CCM)
 - Update of the device software
 - Reading of error memory
-

Ref.-no.

eNet radio centre plate

for AS range

Duroplastic (scratch-proof) glossy

ivory	FM AS 1701
white	FM AS 1701 WW

for A range

Duroplastic (scratch-proof) glossy

white	FM A 1701 WW
black	FM A 1701 SW

Duroplastic lacquered

aluminium	FM A 1701 AL
champagne	FM A 1701 CH
mocha	FM A 1701 MO

Thermoplastic (breakproof) high-gloss

white	 FM A 1701 BF WW
black	 FM A 1701 BF SW

matt lacquered

matt snow white	FM A 1701 BF WWM
matt graphite black	FM A 1701 BF SWM
matt anthracite	FM A 1701 BF ANM

for CD range

Duroplastic (scratch-proof) glossy

ivory	FM CD 1701
white	FM CD 1701 WW
brown	FM CD 1701 BR
grey	FM CD 1701 GR
light grey	FM CD 1701 LG
black	FM CD 1701 SW

metal colours (duroplastic lacquered)

gold-bronze	FM CD 1701 GB
platinum	FM CD 1701 PT

for LS range

Duroplastic (scratch-proof) glossy

ivory	FM LS 1701
white	FM LS 1701 WW
light grey	FM LS 1701 LG
black	FM LS 1701 SW

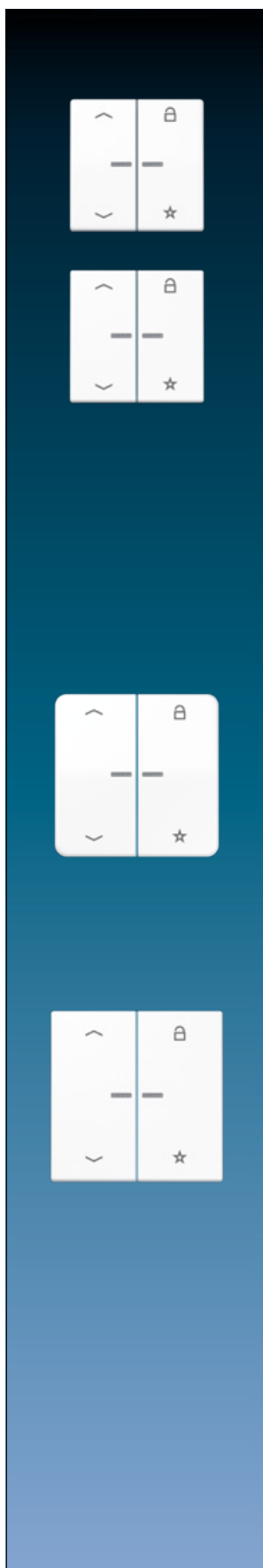
matt lacquered

matt snow white	FM LS 1701 WWM
matt graphite black	FM LS 1701 SWM

metal versions

aluminium	 FM AL 1701
stainless steel	 FM ES 1701
anthracite (aluminium lacquered)	FM AL 1701 AN
dark (aluminium lacquered)	FM AL 1701 D
chrome	FM GCR 1701
gold-coloured	FM GO 1701
classic brass	FM ME 1701 C
antique brass	FM ME 1701 AT





	Ref.-no.
eNet radio centre plate "arrows"	
for AS range	
Duroplastic (scratch-proof) glossy	
ivory	FM AS 1701 P
white	FM AS 1701 P WW
for A range	
Duroplastic (scratch-proof) glossy	
white	FM A 1701 P WW
black	FM A 1701 P SW
Duroplastic lacquered	
aluminium	FM A 1701 P AL
champagne	FM A 1701 P CH
mocha	FM A 1701 P MO
Thermoplastic (breakproof) high-gloss	
white	FM A 1701 BFP WW
black	FM A 1701 BFP SW
matt lacquered	
matt snow white	FM A 1701 BFP WWM
matt graphite black	FM A 1701 BFP SWM
matt anthracite	FM A 1701 BFP ANM
for CD range	
Duroplastic (scratch-proof) glossy	
ivory	FM CD 1701 P
white	FM CD 1701 P WW
brown	FM CD 1701 P BR
grey	FM CD 1701 P GR
light grey	FM CD 1701 P LG
black	FM CD 1701 P SW
metal colours (duroplastic lacquered)	
gold-bronze	FM CD 1701 P GB
platinum	FM CD 1701 P PT
for LS range	
Duroplastic (scratch-proof) glossy	
ivory	FM LS 1701 P
white	FM LS 1701 P WW
light grey	FM LS 1701 P LG
black	FM LS 1701 P SW
matt lacquered	
matt snow white	FM LS 1701 P WWM
matt graphite black	FM LS 1701 P SWM
metal versions	
aluminium	FM AL 1701 P
stainless steel	FM ES 1701 P
anthracite (aluminium lacquered)	FM AL 1701 P AN
dark (aluminium lacquered)	FM AL 1701 P D
chrome	FM GCR 1701 P
gold-coloured	FM GO 1701 P
classic brass	FM ME 1701 P C
antique brass	FM ME 1701 P AT

Ref.-no.

eNet radio brightness detector, solar-powered

New system feature: Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0

FM FS 1 S

Intended use

- Sensor for brightness-dependent control of eNet actuators
- Mounting on window panes in indoor areas

Product characteristics

- Triggers scenes when the set sun protection and twilight value is exceeded or undershot
- Temperature-dependent sun protection possible
- Scene buttons for sun protection and twilight
- Brightness measurement via brightness sensor
- Sends brightness values to the eNet server if brightness changes more than 50 %
- Test operation for adjusting protection and temperature threshold
- Solar-powered device
- Integrated battery as energy storage

Can be set with eNet server:

- Operating locks

Supplementary functions with eNet server:

- Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0
- Update of the device software
- Reading of error memory

Sun protection

The sun protection function allows automatic lowering of a blind/shutter in strong sunlight. If a set sun protection value is exceeded for more than 2 minutes, the sun protection sensor transmits the "Sun protection" scene and the blinds move to their previously saved sun protection position. If the brightness falls below the set sun protection value for longer than 15 minutes, then the blind/shutter will move upwards again.

Sun protection, temperature-dependent

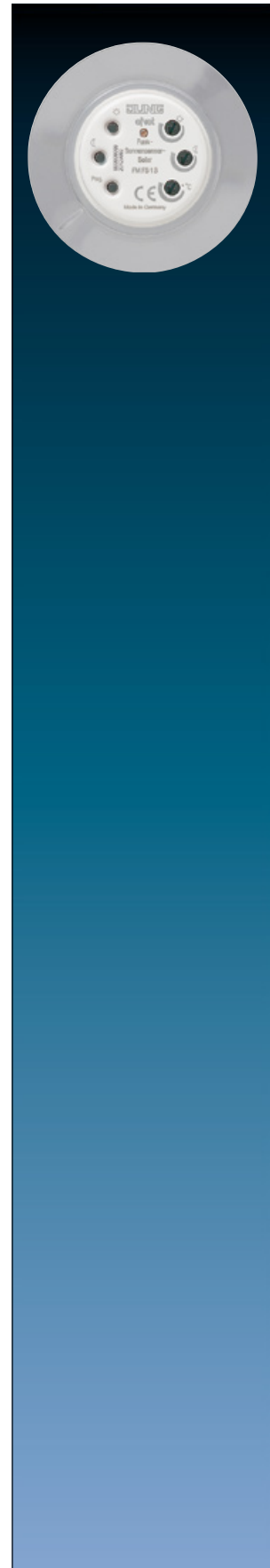
Temperature-dependent sun protection can primarily be used in the colder months of the year. The shading of the interior is triggered when the set temperature value is exceeded, in addition to the sun protection value. After triggering the sun protection, the temperature evaluation is deactivated.

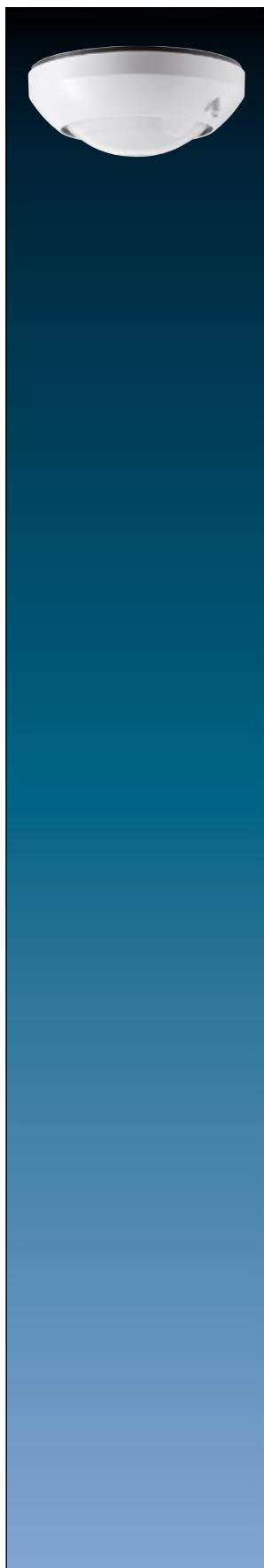
Twilight

When darkness begins, the twilight function allows automatic lowering of a blind/shutter or lighting switching. If the set twilight value is undershot for more than 4 minutes, the "Twilight" scene is opened. If the set twilight threshold is exceeded for approx. 15 minutes, the blind/shutter moves upwards or the lighting switches. To allow the blind/shutter to move upwards automatically, also at dawn, position the sun sensor so that it is not in the shadow of the blind/shutter.

Technical data

Ambient temperature:	-5 ... +45 °C
Brightness setting:	4,000 ... 80,000 lx
Twilight setting:	5 ... 250 lx
Temperature setting:	+15 ... +40 °C (and OFF)
Dimensions (Ø x H):	75 x 27 mm
Radio frequency:	868.0 ... 868.6 MHz
Transmitting power:	max. 20 mW
Transmission range in free field:	typical 100 m
Receiver category:	2





Ref.-no.

eNet motion detector

Battery-powered device for controlling eNet radio actuators

white

FM DW 360 WW

Intended use

- Automatic switching of lighting depending on the thermal movement and ambient brightness
- Operation only with radio actuators for switching or dimming of the eNet system
- Ceiling installation, surface mounting in dry indoor areas

Product characteristics

- LED for signalling
- Battery-powered device
- Brightness threshold adjustable
- Run-on time adjustable
- Sensitivity selectable

Can be set with eNet server:

- Disabling of manual commissioning
- Longer run-on time adjustable
- Brightness threshold adjustable
- Energy saving level
- Settable transmission behaviour

Supplementary functions with eNet server:

- Fully-encrypted radio transmission (AES-CCM)
- Operation with eNet server version 2.2 or higher
- Update of the device software
- Reading of error memory

Technical data

Rated voltage:	DC 6 V
Battery type:	4 x 1.5 V micro LR03 (AAA) alkaline (not included with supply)
Ambient temperature:	-5 ... +45 °C
Brightness setting:	approx. 5 ... 2,000 lx (and daytime operation)
Sensitivity:	25 ... 100 %
Shut-off delay:	approx. 10 s ... 30 min (with eNet server 60 min)
Mounting height:	2.50 m
Detection angle:	360°
Detection range	
Radial movement:	Ø approx. 5 m
Tangential movement:	Ø approx. 8 m
Dimensions (Ø x H):	103 x 42 mm
Transmission range in free field:	typical 100 m
Radio frequency:	868.0 ... 868.6 MHz
Transmitting power:	max. 20 mW
Receiver category:	2

Ref.-no.

eNet radio energy detector 1-gang mini

New system feature: Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0

FM ES 3680 UP

Intended use

- Energy sensor for radio transmission of energy values
- Sensor for load-dependent control of eNet actuators with eNet server
- Operation with eNet server
- Installation in flush box according to EN 60670-1 in combination with a suitable cover
- Mounting in surface-mounted housing or mounting adapter (ref.-no. FM-EBG) for false ceilings

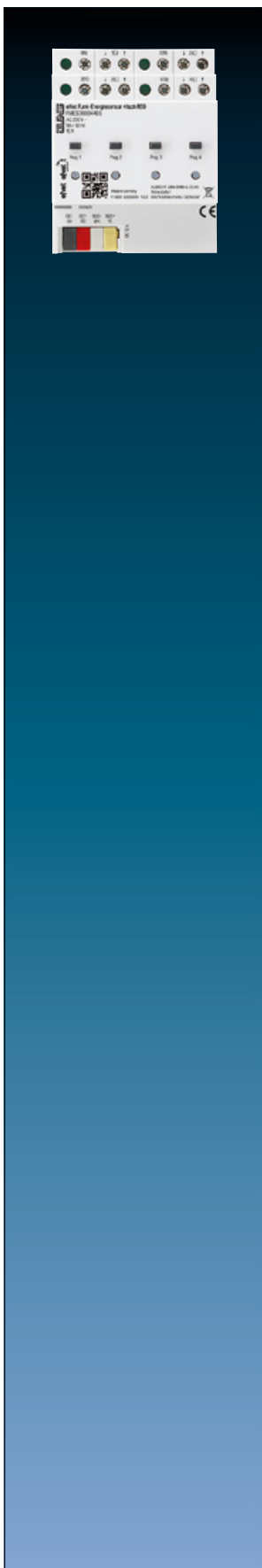
Product characteristics

- Calculation of the active power and the active energy
- Event or time-controlled transmission of measured value telegrams to the eNet server
- Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0
- Update of the device software

Technical data

Rated voltage:	AC 230 V ~, 50/60 Hz
Rated load current:	16 A
Peak current (1 s):	80 A
Peak current (1 min):	24 A
Power consumption:	max. 0.5 W
Transmission interval:	1 ... 60 min
Ambient temperature:	-25 ... +70 °C
Connection mode:	screw terminals
single wire:	1 x 0.75 ... 4 mm ²
stranded with ferrule:	1 x 0.75 ... 2.5 mm ²
Dimensions (Ø x H):	53 x 23 mm
Radio frequency:	868.0 ... 868.6 MHz
Transmitting power:	max. 20 mW
Transmission range in free field:	typical 100 m
Receiver category:	2
Measuring ranges	
Current:	0 mA ... 16 A
Accuracy (current):	± 0.5 % of the current value and ± 8 mA
Voltage:	207 ... 250 V
Accuracy (voltage):	± 0.5 % of the current value
Transmitted power and energy values	
Active power:	-4,000 ... 4,000 W
Apparent power:	0 ... 4000 VA
Reactive power:	-4,000 ... 4,000 var
Accuracy (power):	± 0.5 % of the current value and ± 2 W/VA/var
Active energy:	-99,999 ... 99,999 kWh





Ref.-no.

eNet radio energy detector 4-gang, for rail mounting

New system feature: Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0

FM ES 36804 REG

Intended use

- Energy sensor to determine energy values
- Sensor for load-dependent control of eNet actuators with eNet server
- Transfer of the measured values to the eNet server
- Operation with power supply (ref.-no. NT 1220 REG VDC) and receiver module (ref.-no. FM FK 32 REG) or eNet server
- Installation in distribution boxes on DIN rail according to EN 60715

Product characteristics

- Separate calculation of the active power and the active power for each measuring channel
- Event or time-controlled transmission of measured value telegrams to the eNet server
- Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0
- Update of the device software

Technical data

Rated voltage:	AC 230 V ~, 50/60 Hz
Rated load current:	16 A
Peak current (1 s):	80 A
Peak current (1 min):	24 A
Power consumption per channel:	225 mW
Ambient temperature:	-5 ... +45 °C
Transmission interval:	1 ... 60 min
Connection of load terminals:	screw terminals
single wire:	1 x 1.5 ... 4 mm ²
stranded without ferrule:	1 x 0.75 ... 4 mm ²
stranded with ferrule:	1 x 0.5 ... 2.5 mm ²
Mounting width:	72 mm (4 rail units)
Bus line	
Rated voltage:	DC 12 V SELV
Current consumption:	10 mA
Connection bus:	terminal
Cable length:	max. 3 m
Measuring ranges per channel	
Current:	0 mA ... 16 A
Accuracy (current):	± 0.5 % of the current value and ± 8 mA
Voltage:	207 ... 250 V
Accuracy (voltage):	± 0.5 % of the current value
Transmitted power and energy values	
Active power:	-4,000 ... 4,000 W
Apparent power:	0 ... 4000 VA
Reactive power:	-4,000 ... 4,000 var
Accuracy (power):	± 0.5 % of the current value and ± 2 W/VA/var
Active energy:	-99,999 ... 99,999 kWh

Ref.-no.

eNet radio switch/push-button actuator 1-gang mini

New system feature: Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0

FM AS 10 UP

Intended use

- Switching of lighting
- Operation with suitable eNet radio transmitters
- Installation in flush box according to EN 60670-1 in combination with a suitable cover
- Mounting in surface-mounted housing or mounting adapter (ref.-no. FM-EBG) for false ceilings

Product characteristics

- Operating mode switch for: switch/push-button actuator or parameterisation via eNet server
- Status feedback to radio transmitter
- Scene operation possible
- Switchable output with **Prog** button
- Status indication with LED

Switching operation:

- Switch-on telegram: Device switches on
- Switch-off telegram: Device switches off

Push-button operation:

- Relay contact remains closed as long as ON or OFF telegrams are being received
- The maximum switch-on time is 60 seconds

Can be set with eNet server:

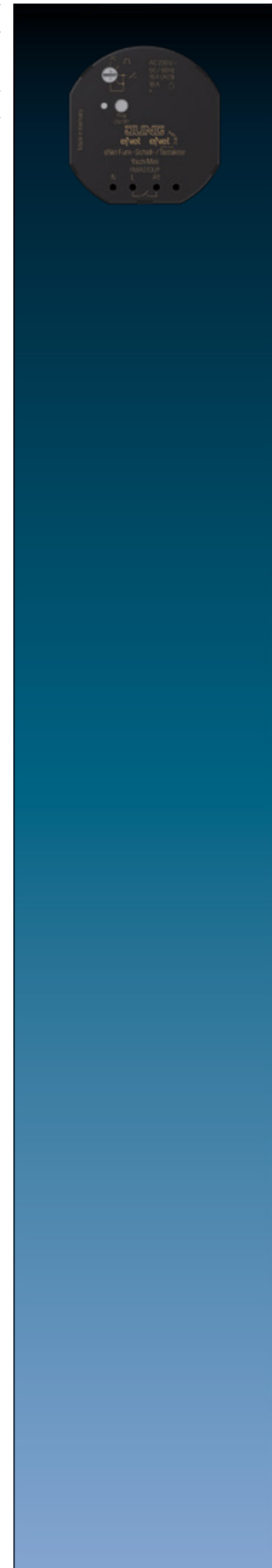
- Flash function
- Run-on time
- Switch-on delay / switch-off delay
- Operation as NO or NC contacts
- Switch-off warning
- Minimum switching repeat time
- Operating locks
- Continuous on, Continuous off

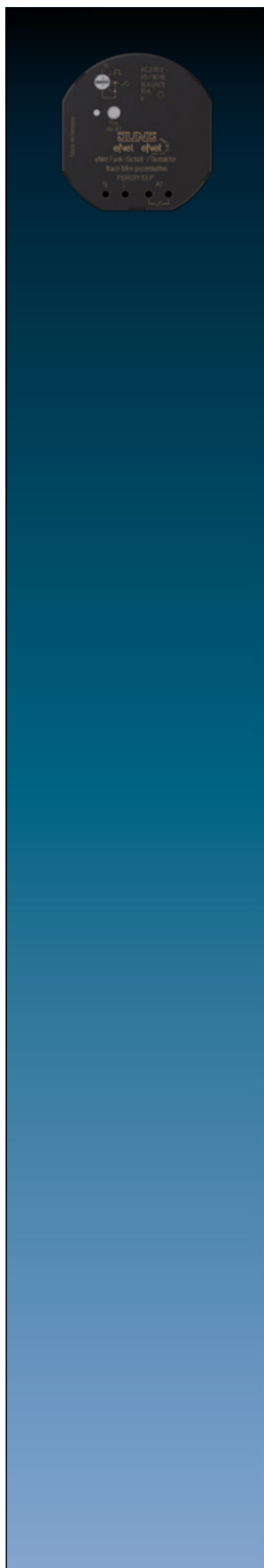
Supplementary functions with eNet server:

- Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0
- Update of the device software
- Repeater function
- Reading of error memory

Technical data

Rated voltage:	AC 230 V ~, 50/60 Hz
Ambient temperature:	-25 ... +70 °C
Switching current at 35 °C	
Ohmic:	16 A (AC1)
For switching current > 10 A connecting cable 2.5 mm ²	
Fluorescent lamps:	4 AX
Contact type:	μ
Stand-by power:	0.5 W
Connected load at 35 °C	
Incandescent lamps:	2300 W
HV halogen lamps:	2000 W
Electronic transformers:	1500 W
Inductive transformers:	1000 VA
HV LED lamps:	typical 500 W
Compact fluorescent lamps:	typical 500 W
Fluorescent lamps	
non-compensated:	920 VA
Capacitive load:	690 VA (560 μF)
Connection mode:	screw terminals
single wire:	1 x 0.75 ... 4 mm ²
stranded with ferrule:	1 x 0.75 ... 2.5 mm ²
Dimensions (Ø x H):	53 x 28 mm
Radio frequency:	868.0 ... 868.6 MHz
Transmitting power:	max. 20 mW
Transmission range in free field:	typical 100 m
Receiver category:	2





Ref.-no.

eNet radio switch/push-button actuator with floating contact, 1-gang mini

New system feature: Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0

FM AS PF 10 UP

Intended use

- Switching of lighting
- Operation with suitable eNet radio transmitters
- Installation in flush box according to EN 60670-1 in combination with a suitable cover
- Mounting in surface-mounted housing or mounting adapter (ref.-no. FM-EBG) for false ceilings

Product characteristics

- Operating mode switch for: switch/push-button actuator or parameterisation via eNet server
- Status feedback to radio transmitter
- Scene operation possible
- Switchable output with **Prog** button
- Status indication with LED

Switching operation:

- Switch-on telegram: Device switches on
- Switch-off telegram: Device switches off

Technical data

Rated voltage:	AC 230 V ~, 50/60 Hz
Ambient temperature:	-25 ... +70 °C
Switching current at 35 °C	
Ohmic:	16 A (AC1)
For switching current > 10 A connecting cable 2.5 mm ²	
Fluorescent lamps:	4 AX
Contact type:	μ
Stand-by power:	0.5 W
Connected load at 35 °C	
Incandescent lamps:	2300 W
HV halogen lamps:	2000 W
Electronic transformers:	1500 W
Inductive transformers:	1000 VA
HV LED lamps:	typical 500 W
Compact fluorescent lamps:	typical 500 W
Fluorescent lamps	
non-compensated:	920 VA
Capacitive load:	690 VA (560 μF)
Connection mode:	screw terminals
single wire:	1 x 0.75 ... 4 mm ²
stranded with ferrule:	1 x 0.75 ... 2.5 mm ²
Dimensions (Ø x H):	53 x 28 mm
Radio frequency:	868.0 ... 868.6 MHz
Transmitting power:	max. 20 mW
Transmission range in free field:	typical 100 m
Receiver category:	2

Push-button operation:

- Relay contact remains closed as long as ON or OFF telegrams are being received
- The maximum switch-on time is 60 seconds

Can be set with eNet server:

- Flash function
- Run-on time
- Switch-on delay / switch-off delay
- Operation as NO or NC contacts
- Switch-off warning
- Minimum switching repeat time
- Operating locks
- Continuous on, Continuous off

Supplementary functions with eNet server:

- Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0
- Update of the device software
- Repeater function
- Reading of error memory

Ref.-no.

eNet radio switch/push-button actuator 2-gang mini

New system feature: Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0

FM AS 26 UP

Intended use

- Switching of lighting and single-phase motors
- Operation with suitable eNet radio transmitters
- Installation in flush box according to EN 60670-1 in combination with a suitable cover
- Mounting in surface-mounted housing or mounting adapter (ref.-no. FM-EBG) for false ceilings

Product characteristics

- Operating mode switch for: switch/push-button actuator together for both outputs or parameterisation via eNet server
- Independent switching of two electrical loads
- Status feedback to radio transmitter
- Scene operation possible
- Status indication with LED

Switching operation:

- Switch-on telegram: Device switches on
- Switch-off telegram: Device switches off

Push-button operation:

- Relay contact remains closed as long as ON or OFF telegrams are being received
- The maximum switch-on time is 60 seconds

Can be set with eNet server for each output:

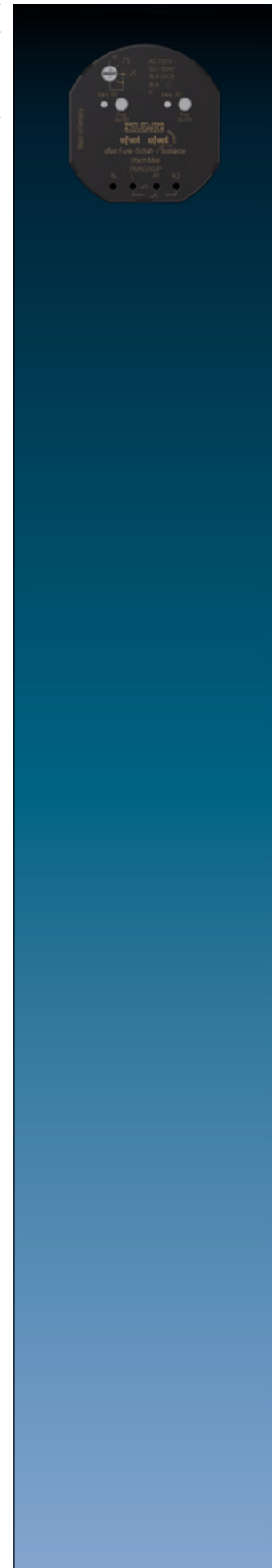
- Flash function
- Run-on time
- Switch-on delay / switch-off delay
- Operation as NO or NC contacts
- Switch-off warning
- Minimum switching repeat time
- Operating locks
- Continuous on, Continuous off

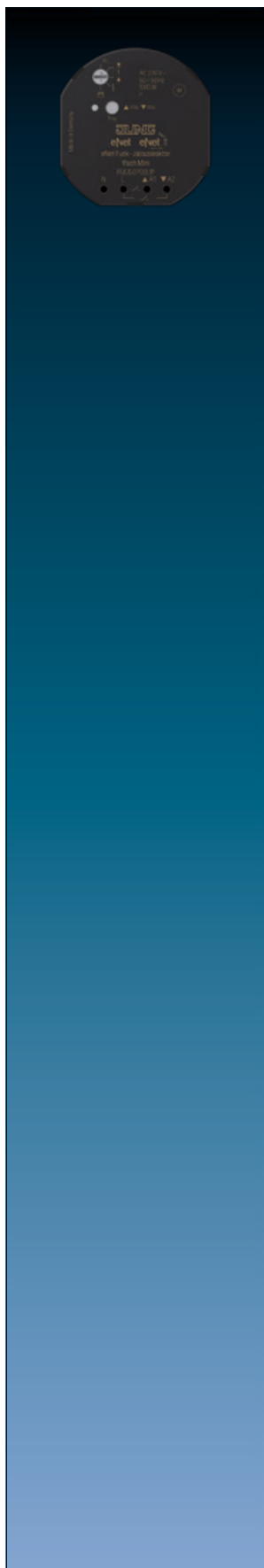
Supplementary functions with eNet server:

- Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0
- Update of the device software
- Repeater function
- Reading of error memory

Technical data

Rated voltage:	AC 230 V ~, 50/60 Hz
Ambient temperature:	-25 ... +70 °C
Switching current at 35 °C	
Ohmic:	16 A (AC1)
For switching current > 10 A connecting cable 2.5 mm ²	
Current carrying capacity of device:	Σ 16 A
Fluorescent lamps:	4 AX
Contact type:	μ
Stand-by power:	max. 0.5 W
Connected load per output at 35 °C	
Incandescent lamps:	2300 W
HV halogen lamps:	2000 W
Electronic transformers:	1500 W
Inductive transformers:	1000 VA
HV LED lamps:	typical 500 W
Compact fluorescent lamps:	typical 500 W
Fluorescent lamps	
non-compensated:	920 VA
Motors:	450 VA
Capacitive load:	690 VA (560 μF)
Connection mode:	screw terminals
single wire:	1 x 0.75 ... 4 mm ²
stranded with ferrule:	1 x 0.75 ... 2.5 mm ²
Dimensions (Ø x H):	53 x 28 mm
Radio frequency:	868.0 ... 868.6 MHz
Transmitting power:	max. 20 mW
Transmission range in free field:	typical 100 m
Receiver category:	2





Ref.-no.

eNet radio blinds actuator 1-gang mini

New system feature: Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0

FM J 50700 UP

Intended use

- Controlling electrically driven blinds, shutters and awnings
- Operation with suitable eNet radio transmitters
- Installation in flush box according to EN 60670-1 in combination with a suitable cover
- Mounting in surface-mounted housing or mounting adapter (ref.-no. FM-EBG) for false ceilings

Product characteristics

- Operating mode switch for switch-over to blind actuator, shutter actuator or parameterisation via eNet server
- Positioning of the blind and slats via scene recall
- Position for sun protection and twilight can be saved
- Status feedback to radio transmitter
- Switchable output with **Prog** button
- Blind/shutter running time can be saved
- Slat change-over time can be saved
- Fabric-stretching for awnings
- Status indication with LED

Can be set with eNet server:

- Change-over time for direction change
- Running direction invertible
- Operating locks
- Position for sun protection, twilight, lock-out protection and wind alarm

Supplementary functions with eNet server:

- Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0
- Update of the device software
- Repeater function
- Reading of error memory

Technical data

Rated voltage:	AC 230 V ~, 50/60 Hz
Ambient temperature:	-25 ... +70 °C
Minimum actuation time in operating mode	
Blind:	0.1 s
Shutter:	0.3 s
Contact type:	μ
Stand-by power:	max. 0.5 W
Running time:	1 ... 600 s
Running time default setting:	120 s
Slat adjusting time:	0 ... 10 s
Connected load	
Motors:	1000 W
Connection mode:	
single wire:	1 x 0.75 ... 4 mm ²
stranded with ferrule:	1 x 0.75 ... 2.5 mm ²
Dimensions (Ø x H):	53 x 28 mm
Radio frequency:	868.0 ... 868.6 MHz
Transmitting power:	max. 20 mW
Transmission range in free field:	typical 100 m
Receiver category:	2

Ref.-no.

eNet radio dimming actuator 1-gang mini

New system feature: Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0

FM UD 20250 UP

Intended use

• Switching and dimming of incandescent lamps, HV halogen lamps, electronic transformers for halogen or LED lamps, dimmable inductive transformers for halogen or LED lamps, HV LED or compact fluorescent lamps • Operation with suitable eNet radio transmitters • Installation in flush box according to EN 60670-1 in combination with a suitable cover • Mounting in surface-mounted housing or mounting adapter (ref.-no. FM-EBG) for false ceilings

Product characteristics

• Switch-on via bulb-preserving soft start • Switch-on brightness can be saved permanently • Minimum brightness can be saved permanently • Scene operation possible • Status indication with LED • Status feedback to radio transmitter • Switchable with **Prog** button • Electronic short-circuit protection with permanent switch-off after 7 seconds at the latest • Electronic over-temperature protection • Automatic or manual setting of the dimming principle suitable for the load • Power extension possible by means of power boosters (ref.-no. ULZ 1755 REG) • Optional accessory: compensation module LED, ref.-no.: KM LED 230 U

Can be set with eNet server:

• Maximum brightness • Dimming speed • Switch-on delay / switch-off delay • Dim up/dim down ramp • Switch-off warning • Operating locks • Continuous on, Continuous off • Hotel function • Run-on time
 Supplementary functions with eNet server: • Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0 • Update of the device software • Repeater function • Reading of error memory

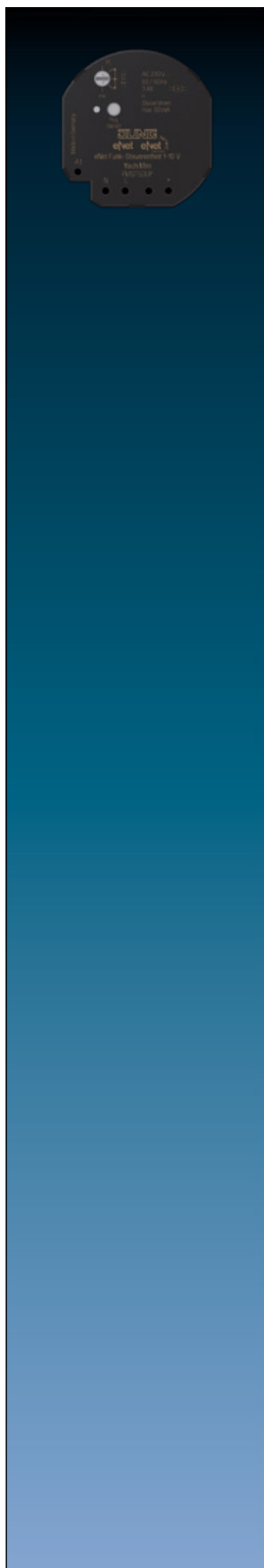


Technical data

Rated voltage:	AC 230 V ~, 50/60 Hz
Power loss:	max. 1.5 W
Stand-by power:	max. 0.5 W
Ambient temperature:	-25 ... +70 °C
Connected load at 45 °C	
Power specifications including transformer power dissipation.	
Operate inductive transformers with at least 85 % nominal load.	
For ohmic-inductive mixed load, maximum 50 % proportion of ohmic load. Otherwise incorrect calibration of the dimmer may result.	
Incandescent lamps:	20 ... 250 W
HV halogen lamps:	20 ... 250 W
Electronic transformers:	20 ... 250 W
Electronic transformers with LV LED:	typical 20 ... 100 W
Inductive transformers:	20 ... 250 VA
Inductive transformers with LV LED:	typical 20 ... 100 VA
Dimmable HV LED lamps:	typical 3 ... 70 W
Dimmable compact fluorescent lamps:	typical 3 ... 70 W
Ohmic-inductive:	20 ... 250 VA
Ohmic-capacitive:	20 ... 250 W
Capacitive-inductive:	not permitted
Ohmic and HV LED:	typical 3 ... 70 W
Ohmic and CFL:	typical 3 ... 70 W

Reduction of load for every 5 °C exceeded 45 °C:	-5 %
for installation into wooden or hollow walls:	-15 %
for installation into multiple combinations:	-20 %
Amplifiers:	see instructions for amplifier
Connection mode:	screw terminals
single wire:	1 x 0.75 ... 4 mm ²
stranded with ferrule:	1 x 0.75 ... 2.5 mm ²
Contact type:	ε
Total length power cable:	max. 100 m
Dimensions (Ø x H):	53 x 28 mm
Radio frequency:	868.0 ... 868.6 MHz
Transmitting power:	max. 20 mW
Transmission range in free field:	typical 100 m
Receiver category:	2





Ref.-no.

eNet radio push-button controller 1 – 10 V 1-gang mini

New system feature: Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0

FM ST 50 UP

Intended use

- Switching and brightness setting of luminaires with 1 – 10 V interface
- Operation with suitable eNet radio transmitters
- Installation in flush box according to EN 60670-1 in combination with a suitable cover
- Mounting in surface-mounted housing or mounting adapter (ref.-no. FM-EBG) for false ceilings

Product characteristics

- Switch-on brightness can be saved permanently
- Minimum brightness can be saved permanently
- Scene operation possible
- Status indication of the 1 – 10 V subscribers via LED
- Status feedback to radio transmitter
- 1 – 10 V subscribers switchable with **Prog** button
- 1 – 10 V interface is protected against reverse polarity

Can be set with eNet server:

- Maximum brightness
- Dimming speed
- Switch-on delay / switch-off delay
- Dim up/dim down ramp
- Switch-off warning
- Operating locks
- Continuous on, Continuous off
- Hotel function
- Run-on time

Supplementary functions with eNet server:

- Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0
- Update of the device software
- Repeater function
- Reading of error memory

Technical data

Rated voltage:	AC 230 V ~, 50/60 Hz
Stand-by power:	max. 0.5 W
Ambient temperature:	-25 ... +70 °C
Contact type:	μ
Control voltage:	0.5 ... 11 V
Control current:	max. 50 mA
Switching current	
Ohmic:	6 A
Fluorescent lamps:	3 AX
Connected load	
Ohmic load:	1380 W
Capacitive load:	690 VA (560 μF)
Connection mode:	screw terminals
single wire:	1 x 0.75 ... 4 mm ²
stranded with ferrule:	1 x 0.75 ... 2.5 mm ²
Dimensions (Ø x H):	53 x 28 mm
Total length power cable:	max. 100 m
Total length of control cable:	max. 100 m
Radio frequency:	868.0 ... 868.6 MHz
Transmitting power:	max. 20 mW
Transmission range in free field:	typical 100 m
Receiver category:	2

Ref.-no.

eNet radio DALI gateway 1-gang mini

New system feature: Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0

FM STD 8 UP

Intended use

- Switching and brightness setting for luminaires with DALI interface
- Operation with suitable eNet radio transmitters
- Installation in flush box according to EN 60670-1 in combination with a suitable cover
- Mounting in surface-mounted housing or mounting adapter (ref.-no. FM-EBG) for false ceilings

Product characteristics

- Joint operation of all the connected DALI ballasts, broadcast
- Electronic short-circuit protection of the DALI supply with permanent switch-off after 8 seconds
- Electronic over-temperature protection of the DALI supply with self-retain
- DALI supply for a maximum of 12 subscribers
- Parallel switching of up to 6 DALI control units with the option of supplying up to 72 DALI subscribers
- Switch-on brightness can be saved permanently
- Minimum brightness can be saved permanently
- Scene operation possible

- Status indication with LED
- Status feedback to radio transmitter
- DALI ballast is switchable with **Prog** button

Can be set with eNet server:

- Maximum brightness
- Dimming speed
- Switch-on delay / switch-off delay
- Dim up/dim down ramp
- Switch-off warning
- Operating locks
- Continuous on, Continuous off
- Hotel function
- Run-on time

Supplementary functions with eNet server:

- Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0
- Update of the device software
- Repeater function
- Reading of error memory

Technical data

Rated voltage:	AC 230 V ~, 50/60 Hz
Power consumption:	max. 2 W
Ambient temperature:	-25 ... +70 °C
DALI system voltage:	DC 16 V
Output current:	max. 24 mA
Number of DALI devices:	max. 12
Reduction of load	
Number of DALI devices over 45 °C:	max. 8
Number of control units in parallel:	max. 6
Connection mode:	screw terminals
single wire:	1 x 0.75 ... 4 mm ²
stranded with ferrule:	1 x 0.75 ... 2.5 mm ²
Dimensions (Ø x H):	53 x 28 mm
Radio frequency:	868.0 ... 868.6 MHz
Transmitting power:	max. 20 mW
Transmission range in free field:	typical 100 m
Receiver category:	2

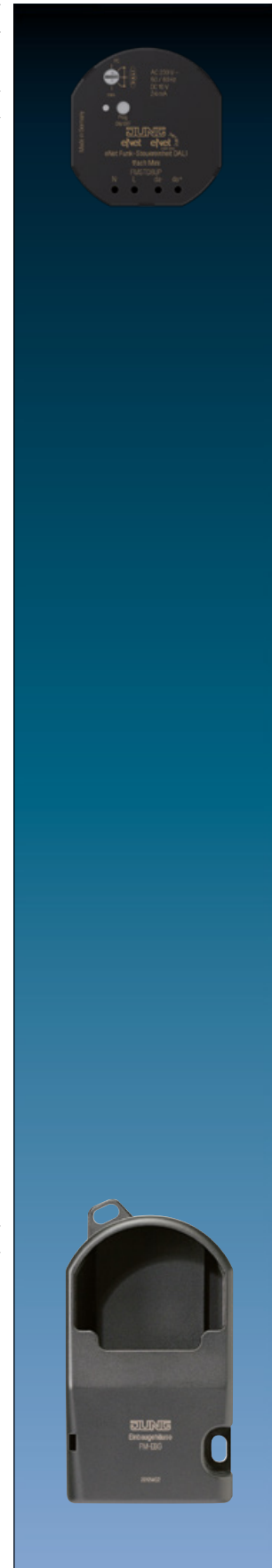
Mounting adapter for mini housing

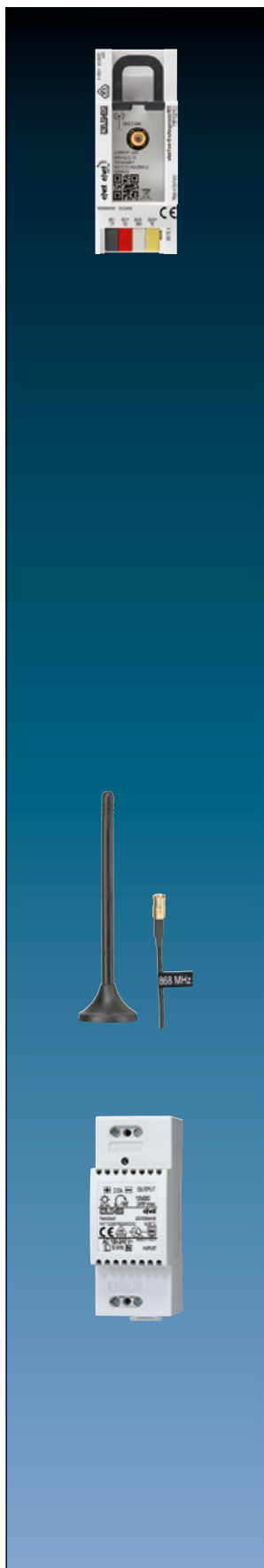
FM-EBG

The mounting adapter is equipped with a strain relief and a cover for the contact terminals.

It enables the installation of mini actuators into false ceilings or on DIN rails.

Dimensions: 97 x 53 x 36 mm





Ref.-no.

eNet master receiver module for rail mounting

Rail mounting device, 2 rail units

New system feature: Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0

FM FK 32 REG

Intended use

- Radio receiver for flush-mounted series modules
- Operation with power supply, ref.-no.: NT 1220 REG VDC
- Mounting on DIN rail according to EN 60715 in distribution boxes

Product characteristics

- Integrated antenna
- External antenna (ref.-no.: FM ANT) can additionally be connected in case of disadvantageous installation conditions, e.g. metallic distribution boxes

Technical data

Rated voltage:	DC 12 V SELV
Current consumption:	typical 15 mA
Ambient temperature:	-5 ... +45 °C
Protection class:	III
Mounting width:	36 mm (2 rail units)
Number of RMD modules:	max. 32
Connection bus:	terminal
Cable length:	max. 3 m
Cable type:	J-Y(St)Y 2 x 2 x 0.8 mm
Radio frequency:	868.0 ... 868.6 MHz
Radio range:	typical 100 m
Transmitting power:	max. 20 mW
Receiver category:	2

eNet antenna

FM ANT

Intended use

The antenna with magnetic pedestal supplements the integrated antenna of the master receiver for rail mounting and eNet server in case of unfavourable installation conditions, e.g. a metallic distribution box.

Technical data

Antenna length:	17 cm
Cable length:	1.4 m
Connection:	SMB connector
Radio frequency:	868.0 ... 868.6 MHz

Power supply for rail mounting

for eNet master receiver ref.-no.: FM FK 32 REG

Rail mounting device, 2 rail units

NT 1220 REG VDC

Technical data

Input voltage:	AC 100 ... 240 V ~, 50/60 Hz
Input current:	505 mA
Output voltage:	DC 12 V
Output current:	2 A
Mounting width:	36 mm (2 rail units)
Connection:	screw terminals

Ref.-no.

eNet radio switch/push-button actuator 1-gang, for rail mounting

Rail mounting device, 2 rail units

New system feature: Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0

FM AS 16 REG

Intended use

- Switching of lighting
- Operation with suitable eNet radio transmitters
- Operation with power supply (ref.-no. NT 1220 REG VDC) and receiver module (ref.-no. FM FK 32 REG) or eNet server
- Installation in distribution boxes on DIN rail according to EN 60715

Product characteristics

- Operating mode switch for: switch/push-button actuator or parameterisation via eNet server
- Status feedback to radio transmitter
- Scene operation possible
- Switchable output with **Prog** button
- Status indication with LED

Switching operation:

- Switch-on telegram: Device switches on
- Switch-off telegram: Device switches off

Push-button operation:

- Relay contact remains closed as long as ON or OFF telegrams are being received
- The maximum switch-on time is 60 seconds

Can be set with eNet server:

- Flash function
- Run-on time
- Switch-on delay / switch-off delay
- Operation as NO or NC contacts
- Switch-off warning
- Minimum switching repeat time
- Operating locks
- Continuous on, Continuous off

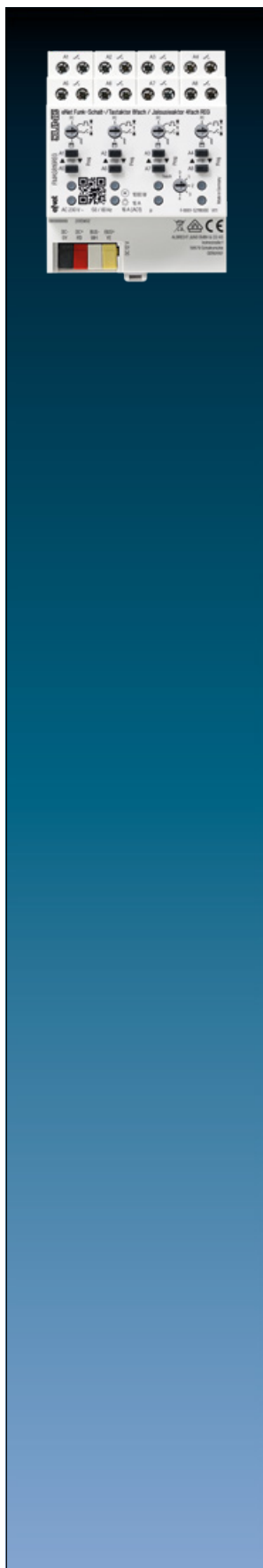
Supplementary functions with eNet server:

- Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0
- Update of the device software
- Reading of error memory

Technical data

Rated voltage:	AC 230 V ~, 50/60 Hz
Ambient temperature:	-5 ... +45 °C
Switching current at AC 230 V ~	
Ohmic:	16 A
For switching current > 10 A connecting cable 2.5 mm ²	
Fluorescent lamps:	4 AX
Contact type:	μ
Stand-by power:	max. 0.2 W
Connected load	
Incandescent lamps:	2300 W
HV halogen lamps:	2000 W
Electronic transformers:	1500 W
HV LED lamps:	typical 500 W
Compact fluorescent lamps:	typical 500 W
Inductive transformers:	1000 VA
Fluorescent lamps	
non-compensated:	920 VA
Capacitive load:	690 VA (560 μF)
Connection, outputs	
Connection mode:	screw terminals
single wire:	1 x 1.5 ... 4 mm ²
stranded without ferrule:	1 x 0.75 ... 4 mm ²
stranded with ferrule:	1 x 0.5 ... 2.5 mm ²
Mounting width:	36 mm (2 rail units)
Bus line	
Rated voltage:	DC 12 V SELV
Current consumption:	max. 20 mA
Connection bus:	terminal
Cable length:	max. 3 m





Ref.-no.

eNet radio switch/push-button actuator 8-gang / blinds actuator 4-gang, for rail mounting

Rail mounting device, 4 rail units

New system feature: Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0

FM AS 816 REG

Intended use

- Switching of lighting
- Switching of single-phase fan motors
- Controlling electrically driven blinds, shutters and awnings
- Operation with suitable eNet radio transmitters
- Operation with power supply (ref.-no. NT 1220 REG VDC) and receiver module (ref.-no. FM FK 32 REG) or eNet server
- Installation in distribution boxes on DIN rail according to EN 60715

Product characteristics

- Operating mode switch for switch-over of switch actuator, push-button actuator, blind actuator, shutter actuator or configuration via eNet server
- Status feedback to radio transmitter
- Scene operation possible
- Outputs switchable with **Prog** button
- Status indication of the outputs via LED

Switching operation:

- Switch-on telegram: Device switches on
- Switch-off telegram: Device switches off

Push-button operation:

- Relay contact remains closed as long as ON or OFF telegrams are being received
- The maximum switch-on time is 60 seconds

Operating mode "Venetian blind/Rolling shutter":

- Positioning of the blind and slats via scene recall
- Position for sun protection and twilight can be saved
- Blind/shutter running time can be saved
- Slat change-over time can be saved
- Fabric-stretching for awnings

Can be set with eNet server in switching/push-button operation:

- Operating mode for each output can be set separately
- Flash function
- Run-on time
- Switch-on delay / switch-off delay
- Operation as NO or NC contacts
- Switch-off warning
- Minimum switching repeat time
- Operating locks
- Continuous on, Continuous off

Can be set in the operating mode "Venetian blind/Rolling shutter" with eNet server:

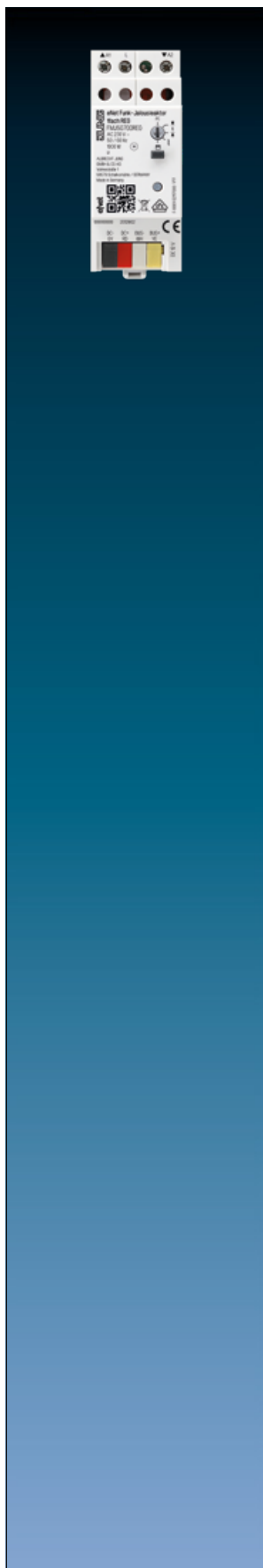
- Change-over time for direction change
- Running direction invertible
- Operating locks
- Position for sun protection, twilight, lock-out protection and wind alarm

Supplementary functions with eNet server:

- Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0
- Update of the device software
- Reading of error memory

Technical data

Rated voltage:	AC 230 V ~, 50/60 Hz
Ambient temperature:	-5 ... +45 °C
Switching voltage:	AC 250 V ~
Minimum actuation time in operating mode	
Blind:	0.1 s
Shutter:	0.3 s
Running time:	1 ... 600 s
Running time default setting:	120 s
Slat adjusting time:	0 ... 10 s
Switching current per output for AC 230 V ~	
Ohmic:	16 A (AC1)
For switching current	
> 10 A connecting cable 2.5 mm ²	
Fluorescent lamps:	4 AX
Switching current neighbouring load outputs:	Σ 20 A
Current carrying capacity of device:	max. 80 A
Contact type:	μ
Stand-by power:	max. 0.5 W
Connected load per output	
Motors:	1000 W
Incandescent lamps:	2300 W
HV halogen lamps:	2000 W
Electronic transformers:	1500 W
Inductive transformers:	1000 VA
HV LED lamps:	typical 500 W
Compact fluorescent lamps:	typical 500 W
Fluorescent lamps	
non-compensated:	920 VA
Capacitive load:	690 VA (560 μF)
Connection, outputs	
Connection mode:	screw terminals
single wire:	1 x 1.5 ... 4 mm ²
stranded without ferrule:	1 x 0.75 ... 4 mm ²
stranded with ferrule:	1 x 0.5 ... 2.5 mm ²
Mounting width:	72 mm (4 rail units)
Bus line	
Rated voltage:	DC 12 V SELV
Current consumption:	60 mA
Connection bus:	terminal
Cable length:	max. 3 m



Ref.-no.

eNet radio blinds actuator 1-gang, for rail mounting

Rail mounting device, 2 rail units

New system feature: Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0

FM J 50700 REG

Intended use

- Controlling electrically driven blinds, shutters and awnings
- Operation with suitable eNet radio transmitters
- Operation with power supply (ref.-no. NT 1220 REG VDC) and receiver module (ref.-no. FM FK 32 REG) or eNet server
- Installation in distribution boxes on DIN rail according to EN 60715

Product characteristics

- Operating mode switch for switch-over to blind actuator, shutter actuator or parameterisation via eNet server
- Positioning of the blind and slats via scene recall
- Position for sun protection and twilight can be saved
- Status feedback to radio transmitter
- Switchable output with **Prog** button
- Blind/shutter running time can be saved
- Slat change-over time can be saved
- Fabric-stretching for awnings
- Status indication with LED

Can be set with eNet server:

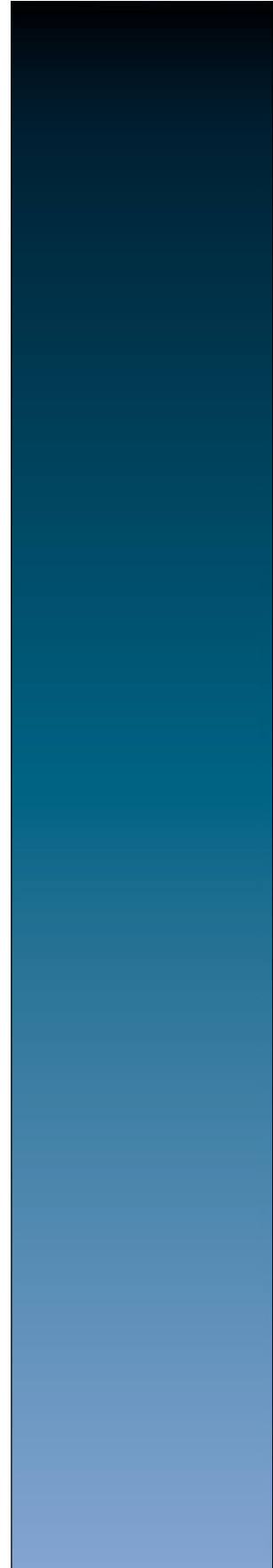
- Change-over time for direction change
- Running direction invertible
- Operating locks
- Position for sun protection, twilight, lock-out protection and wind alarm

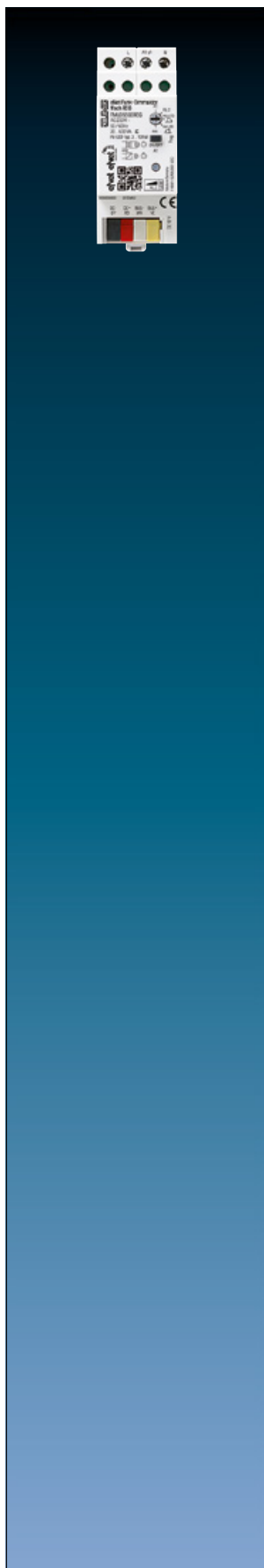
Supplementary functions with eNet server:

- Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0
- Update of the device software
- Reading of error memory

Technical data

Rated voltage:	AC 230 V ~, 50/60 Hz
Ambient temperature:	-5 ... +45 °C
Minimum actuation time in operating mode	
Blind:	0.1 s
Shutter:	0.3 s
Contact type:	μ
Stand-by power:	max. 0.2 W
Running time:	1 ... 600 s
Running time default setting:	120 s
Slat adjusting time:	0 ... 10 s
Connected load	
Motors:	1000 W
Connection of load terminals:	screw terminals
single wire:	1 x 1.5 ... 4 mm ²
stranded without ferrule:	1 x 0.75 ... 4 mm ²
stranded with ferrule:	1 x 0.5 ... 2.5 mm ²
Mounting width:	36 mm (2 rail units)
Bus line	
Rated voltage:	DC 12 V SELV
Current consumption:	max. 20 mA
Connection bus:	terminal
Cable length:	max. 3 m





Ref.-no.

eNet radio dimming actuator 1-gang, for rail mounting

Rail mounting device, 2 rail units

New system feature: Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0

FM UD 5500 REG

Intended use

- Switching and dimming of incandescent lamps, HV halogen lamps, electronic transformers for halogen or LED lamps, dimmable inductive transformers for halogen or LED lamps, HV LED or compact fluorescent lamps
- Operation with power supply (ref.-no. NT 1220 REG VDC) and receiver module (ref.-no. FM FK 32 REG) or eNet server
- Operation with suitable eNet radio transmitters
- Installation in distribution boxes on DIN rail according to EN 60715

Product characteristics

- Switch-on via bulb-preserving soft start
- Switch-on brightness can be saved permanently
- Minimum brightness can be saved permanently
- Scene operation possible
- Status indication with LED
- Status feedback to radio transmitter
- Switchable with **Prog** button
- Electronic short-circuit protection with permanent switch-off after 7 seconds at the latest
- Electronic over-temperature protection
- Automatic or manual setting of the dimming principle suitable for the load
- Power extension possible by means of power boosters (ref.-no. ULZ 1755 REG)
- Optional accessory: compensation module LED, ref.-no.: KM LED 230 U

Can be set with eNet server:

- Maximum brightness
- Dimming speed
- Switch-on delay / switch-off delay
- Dim up/dim down ramp
- Switch-off warning
- Operating locks
- Continuous on, Continuous off
- Hotel function
- Run-on time

Supplementary functions with eNet server:

- Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0
- Update of the device software
- Reading of error memory

Technical data

Rated voltage:	AC 230 V ~, 50/60 Hz
Power loss:	max. 4 W
Stand-by power:	max. 0.3 W
Ambient temperature:	-5 ... +45 °C
Connected load at 35 °C	
Power specifications including transformer power dissipation.	
Operate inductive transformers with at least 85 % nominal load.	
For ohmic-inductive mixed load, maximum 50 % proportion of ohmic load.	
Otherwise incorrect calibration of the dimmer may result.	
Incandescent lamps:	20 ... 500 W
HV halogen lamps:	20 ... 500 W
Electronic transformers:	20 ... 500 W
Electronic transformers with LV LED:	typical 20 ... 100 W
Inductive transformers:	20 ... 500 VA
Inductive transformers with LV LED:	typical 20 ... 100 VA
Dimmable HV LED lamps:	typical 3 ... 100 W
Dimmable compact fluorescent lamps:	typical 3 ... 100 W
With setting "LED trailing edge phase control" the max. connection power for HV LED lamps and electronic transformers with LV LED doubles.	
Ohmic-inductive:	20 ... 500 VA
Ohmic-capacitive:	20 ... 500 VA
Capacitive-inductive:	not permitted
Ohmic and HV LED:	typical 3 ... 100 W
Ohmic and CFL:	typical 3 ... 100 W
Reduction of load for every 5 °C exceeded 35 °C:	-5 %
Amplifiers:	see instructions for amplifier
Connection, outputs	
Connection mode:	screw terminals
single wire:	1 x 1.5 ... 4 mm ²
stranded without ferrule:	1 x 0.75 ... 4 mm ²
stranded with ferrule:	1 x 0.5 ... 2.5 mm ²
Contact type:	ε
Length of output cable, per channel:	max. 100 m
Mounting width:	36 mm (2 rail units)
Bus line	
Rated voltage:	DC 12 V SELV
Current consumption:	10 mA
Connection bus:	terminal
Cable length:	max. 3 m





Ref.-no.

eNet radio dimming actuator 4-gang, for rail mounting

Rail mounting device, 8 rail units

New system feature: Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0

FM UD 420250 REG**Intended use**

- Switching and dimming of incandescent lamps, HV halogen lamps, electronic transformers for halogen or LED lamps, dimmable inductive transformers for halogen or LED lamps, HV LED or compact fluorescent lamps
- Operation with power supply (ref.-no. NT 1220 REG VDC) and receiver module (ref.-no. FM FK 32 REG) or eNet server
- Operation with suitable eNet radio transmitters
- Installation in distribution boxes on DIN rail according to EN 60715

Product characteristics

- Switch-on via bulb-preserving soft start
- Switch-on brightness for each output can be saved permanently
- Minimum brightness for each output can be saved permanently
- Scene operation possible
- Status indication of the outputs via LED
- Status feedback to radio transmitter
- Outputs switchable with **Prog** button
- Increase in output power possible through parallel switching of multiple outputs
- Electronic short-circuit protection with permanent switch-off after 7 seconds at the latest
- Electronic over-temperature protection
- Automatic or manual setting of the dimming principle suitable for the load
- Power extension possible by means of power boosters (ref.-no. ULZ 1755 REG)
- Optional accessory: compensation module LED, ref.-no.: KM LED 230 U

Can be set with eNet server:

- Maximum brightness
- Dimming speed
- Switch-on delay / switch-off delay
- Dim up/dim down ramp
- Switch-off warning
- Operating locks
- Continuous on, Continuous off
- Hotel function
- Run-on time

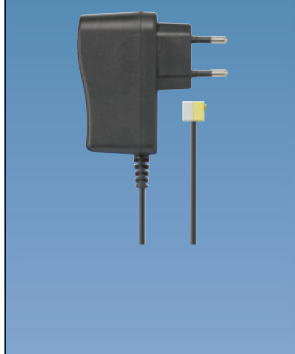
Supplementary functions with eNet server:

- Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0
- Update of the device software
- Reading of error memory

Technical data

Rated voltage:	AC 230 V ~, 50/60 Hz
Power loss:	max. 8 W
Stand-by power:	max. 1.2 W
Ambient temperature:	-5 ... +45 °C
Connected load per output at 45 °C	
Power specifications including transformer power dissipation.	
Operate inductive transformers with at least 85 % nominal load.	
For ohmic-inductive mixed load, maximum 50 % proportion of ohmic load.	
Otherwise incorrect calibration of the dimmer may result.	
Max. load for outputs connected in parallel is limited to 95 %.	
The minimum load of parallel switching of load outputs is 250 VA.	
Incandescent lamps:	20 ... 250 W
HV halogen lamps:	20 ... 250 W
Electronic transformers:	20 ... 250 W
Electronic transformers with LV LED:	typical 20 ... 100 W
Inductive transformers:	20 ... 250 VA
Inductive transformers with LV LED:	typical 20 ... 100 VA
Dimmable HV LED lamps:	typical 3 ... 50 W
Dimmable compact fluorescent lamps:	typical 3 ... 50 W
With setting "LED trailing edge phase control" the max. connection power for HV LED lamps and electronic transformers with LV LED doubles.	
Ohmic-inductive:	20 ... 250 VA
Ohmic-capacitive:	20 ... 250 VA
Capacitive-inductive:	not permitted
Amplifiers:	see instructions for amplifier
Connection, outputs	
Connection mode:	screw terminals
single wire:	1 x 1.5 ... 4 mm ²
stranded without ferrule:	1 x 0.75 ... 4 mm ²
stranded with ferrule:	1 x 0.5 ... 2.5 mm ²
Contact type:	ε
Length of output cable, per channel:	max. 100 m
Mounting width:	144 mm (8 rail units)
Bus line	
Rated voltage:	DC 12 V SELV
Current consumption:	10 mA
Connection bus:	terminal
Cable length:	max. 3 m





Ref.-no.

eNet server for rail mounting

Rail mounting device, 6 rail units

including plug-in power supply (ref.-no. ST NT 12 VDC) for provisional operation at construction site

New system feature: Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0

ENET-SERVER

Intended use

- Commissioning, diagnosis and maintenance of an eNet installation via PC, tablet and laptop
- Operation of an eNet installation via smartphone
- Radio receiver for eNet RMD modules
- Operation only with approved power supply
- Mounting on DIN rail according to EN 60715 in distribution boxes with power supply RMD (ref.-no. NT 1220 REG VDC)
- Mobile use of the eNet server with plug-in power supply (ref.-no. ST NT 12 VDC)

Product characteristics

- Internal eNet radio and WLAN antenna
- External eNet radio and WLAN antennas for extending the radio ranges can additionally be connected
- LEDs for signalling
- Buttons for construction site mode and restart of the eNet server
- Electrical separation between the connections of the external antennas and the Ethernet connection
- Fully-encrypted radio transmission (AES-CCM) from eNet Server software version 2.0

Technical data

Rated voltage:	DC 12 V SELV
Current consumption:	400 mA
Power consumption	
Operation:	max. 6 W
Stand-by:	max. 2 W
Ambient temperature:	-5 ... +45 °C
Storage/transport temperature:	-20 ... +70 °C
Relative humidity:	20 ... 70 % (no condensation)
Protection class:	III
Mounting width:	108 mm (6 rail units)
Connection, power supply:	terminal
LAN:	RJ45 socket 8-pin
WLAN antenna, external:	SMB connector
Bus line	
Cable length:	max. 3 m
Number of RMD modules:	max. 32
IP communication	
LAN:	10/100 Mbit/s Ethernet
WLAN:	2.4 GHz, IEEE 802.11g
IP connections:	max. 8
eNet communication	
Radio frequency:	868.0 ... 868.6 MHz
Transmission range in free field:	typical 100 m
Transmitting power:	max. 20 mW
Receiver category:	2

Plug-in power supply 12 V

(Spare part)

ST NT 12 VDC

Technical data

Rated voltage:	AC 230/240 V ~, 50/60 Hz
Output voltage:	DC 12 V
Output current:	max. 1 A
Primary current:	max. 130 mA
Connected load:	12 W
Efficiency:	approx. 80 %
Ambient temperature:	+5 ... +25 °C

Ref.-no.

Power supply for rail mounting

for eNet server ref.-no.: ENET-SERVER

Rail mounting device, 2 rail units

NT 1220 REG VDC

Technical data

Input voltage:	AC 100 ... 240 V ~, 50/60 Hz
Input current:	505 mA
Output voltage:	DC 12 V
Output current:	2 A
Mounting width:	36 mm (2 rail units)
Connection:	screw terminals

eNet antenna

FM ANT

Intended use

The antenna with magnetic pedestal supplements the integrated antenna of the master receiver for rail mounting and eNet server in case of unfavourable installation conditions, e.g. a metallic distribution box.

Technical data

Antenna length:	17 cm
Cable length:	1.4 m
Connection:	SMB connector
Radio frequency:	868.0 ... 868.6 MHz

WLAN antenna

antenna with magnetic pedestal

FM WLAN ANT

Intended use

The antenna with magnetic pedestal supplements the integrated antenna of the eNet server in case of unfavourable installation conditions, e.g. a metallic distribution box.

Technical data

Antenna length:	17 cm
Cable length:	1.4 m
Connection:	SMB connector
Radio frequency:	2.4 GHz

eNet radio signal quality meter

Not suitable for encrypted radio transmission.

Only with eNet server software up to version 1.4.

FM DT

Product characteristics

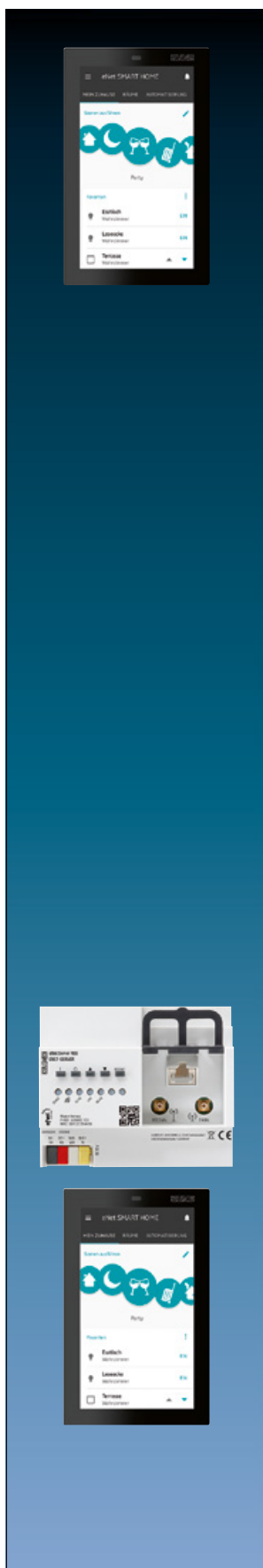
- Display of the signal quality of a selected eNet device using LEDs
- Display of the signal quality of status messages using LEDs
- Display of radio signals of non-eNet radio transmitters in the 868.0 ... 868.6 MHz frequency band using LEDs
- Switch-on, switch-off of the repeater functions of network-operated actuators, transmitters and energy sensors
- Battery operation with one included lithium button cell (CR 2450N)
- Device switches off after 5 minutes without actuation

Technical data

Rated voltage:	DC 3 V
Battery type:	1 x lithium CR 2450N (included)
Ambient temperature:	-5 ... +45 °C
Radio frequency:	868.0 ... 868.6 MHz
Transmission range in free field:	max. 100 m
Transmitting power:	max. 20 mW
Receiver category:	2



Smart Control 8 see page 699



Ref.-no.

Smart Control 5

for installation in walls, capacitive touch screen
fanless, without rotating parts
black

SC 5 SW

Intended use

- Visualisation and operation of system statuses and information on building automation
- For vertical installation
- Installation in flush box according to EN 60670-1
- Ensure correct orientation when installing the flush box.
Mounting screws must be in vertical alignment.

Product characteristics

- KNX visualisation in combination with Visu Pro Server (ref.-no.: JVP-SERVER-H2)
- KNX visualisation in combination with Smart Visu Server (ref.-no.: SV-SERVER-INT)
- Display of diagrams not possible
- eNet visualisation in combination with eNet server for rail mounting (ref.-no.: ENET-SERVER) with software version 2.2 or higher
- Door call function only in combination with Siedle Smart Gateway SG 650-.. or SG 150-..
- High performance HD screen
- Proximity sensor
- Graphical user interface
- Brightness level of display adapts automatically to ambient brightness
- Smart Gateway with integrated image storage

Technical data

Rated voltage:	DC 24 V SELV
Rated capacity:	12 W
Screen diagonal:	127 mm / 5"
Resolution:	720 x 1280
Frame dimensions (W x H):	81 x 132 mm
Power supply:	PoE acc. to IEEE 802.3af or DC 24 V via external power supply (not included)
Processor:	Cortex-A53
Loudspeaker:	integrated
Microphone:	integrated
LAN connections:	1 x 10/100 Mbit/s
Ambient temperature:	0 ... +30 °C

eNet server set Smart Control 5

consists of eNet-Server (ref.-no.: ENET-SERVER) and Smart Control 5 (ref.-no.: SC 5 SW)
black

ENET-S-SC 5 SW

Ref.-no.

Power supply for rail mounting
for Smart Control ref.-no.: SC 5 SW
Rail mounting device, 4 rail units

NT 2415 REG VDC

Technical data

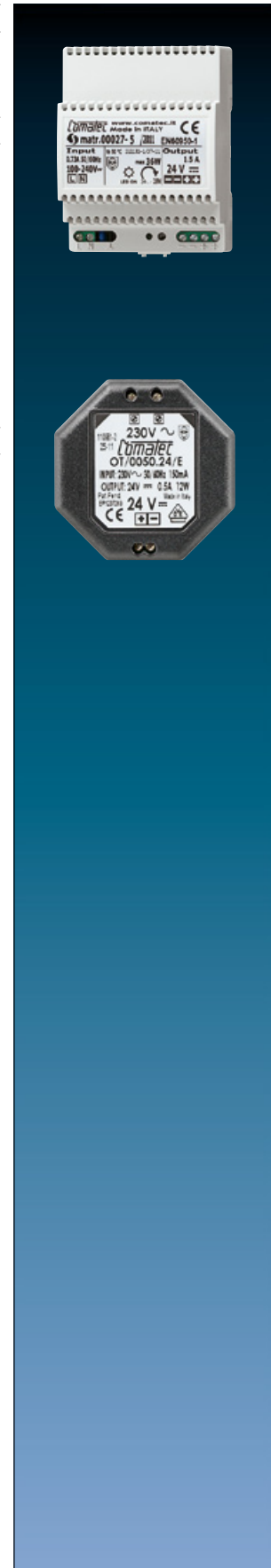
Input voltage:	AC 100 ... 240 V ~, 50/60 Hz
Input current:	730 mA
Output voltage:	DC 24 V SELV
Output current:	1.5 A
Mounting width:	72 mm (4 rail units)
Connection:	screw terminals

Flush-mounted power supply
for Smart Control ref.-no.: SC 5 SW

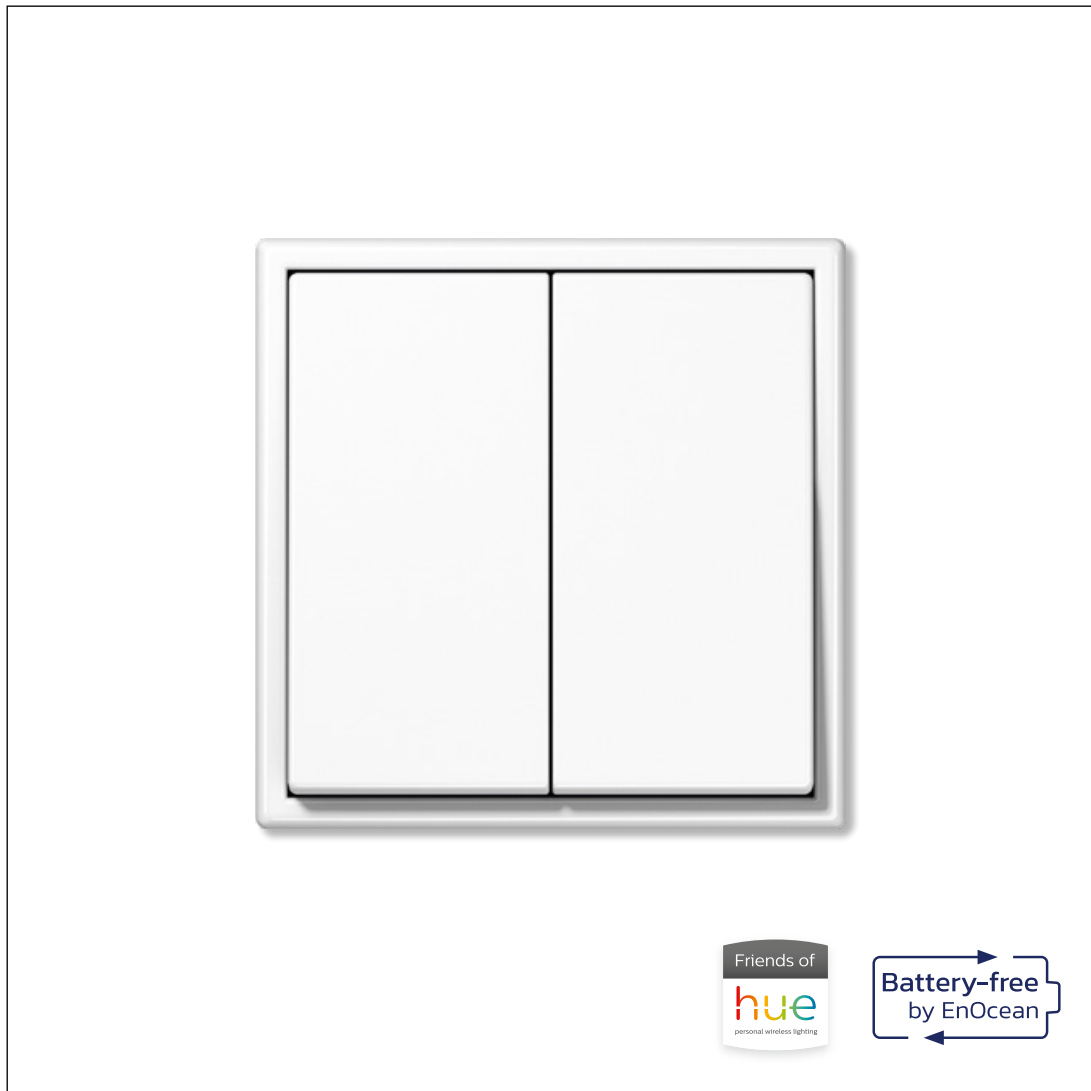
NT 2405 VDC

Technical data

Input voltage:	AC 230 V ~, 50/60 Hz
Input current:	150 mA
Output voltage:	DC 24 V
Output current:	500 mA
Dimensions (Ø x H):	54 x 32 mm
Connection:	screw terminals



Wall-mounted transmitters for Philips Hue



No smartphone needed: With the freely programmable JUNG wall-mounted transmitters, lamps from the Philips Hue lighting system can be controlled simply with the push of a button. The switches are compatible with the JUNG A and LS range and work without cables or battery. They are available compatible with the JUNG AS 550 and LS 990 switch ranges.

Ref.-no.

Friends of Hue switch set

including mounting plate, adhesive film and fastening screw

- Smart switch for wireless remote control of Philips Hue lamps
- For switching, dimming and controlling individual light scenes
- For residential use only
- Mounting on flush box according to EN 60670-1, screw fixing on walls or adhesive fixing on smooth, even surfaces (glass)
- Battery-free device without external power supply
- Transmitting energy is generated from mechanical energy of actuation (energy harvesting)
- Encrypted transmission with device-specific code
- Wireless standard ZigBee Green Power, compatible with Friends of Hue and Apple HomeKit
- Automatic range extension via Philips Hue lamps
- Simple commissioning and configuration via Philips Hue app and Hue Bridge V2 or higher

Technical data

Radio frequency:	2.402 ... 2.480 GHz
Transmission range	
in free field:	up to 175 m
in buildings:	approx. 20 m
Transmitting power:	7 dBm / 5 mW
Ambient temperature:	-5 ... +45 °C
Storage/transport temperature:	-25 ... +65 °C
Atmospheric humidity:	0 ... 95 % (no condensation)

A range

Friends of Hue switch set

4-channel
max. 4 light scenes
including A 550 frame ref.: A 5581 BF WW

Thermoplastic (breakproof) high-gloss

white ■ FOHS A 550 595 WW

LS range

Friends of Hue switch set

4-channel
max. 4 light scenes
including LS 990 frame ref.: LS 981 WW

Thermoplastic (breakproof) high-gloss

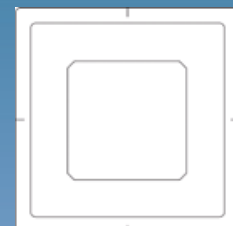
white ■ FOHS LS 995 WW

Adhesive film for radio transmitter

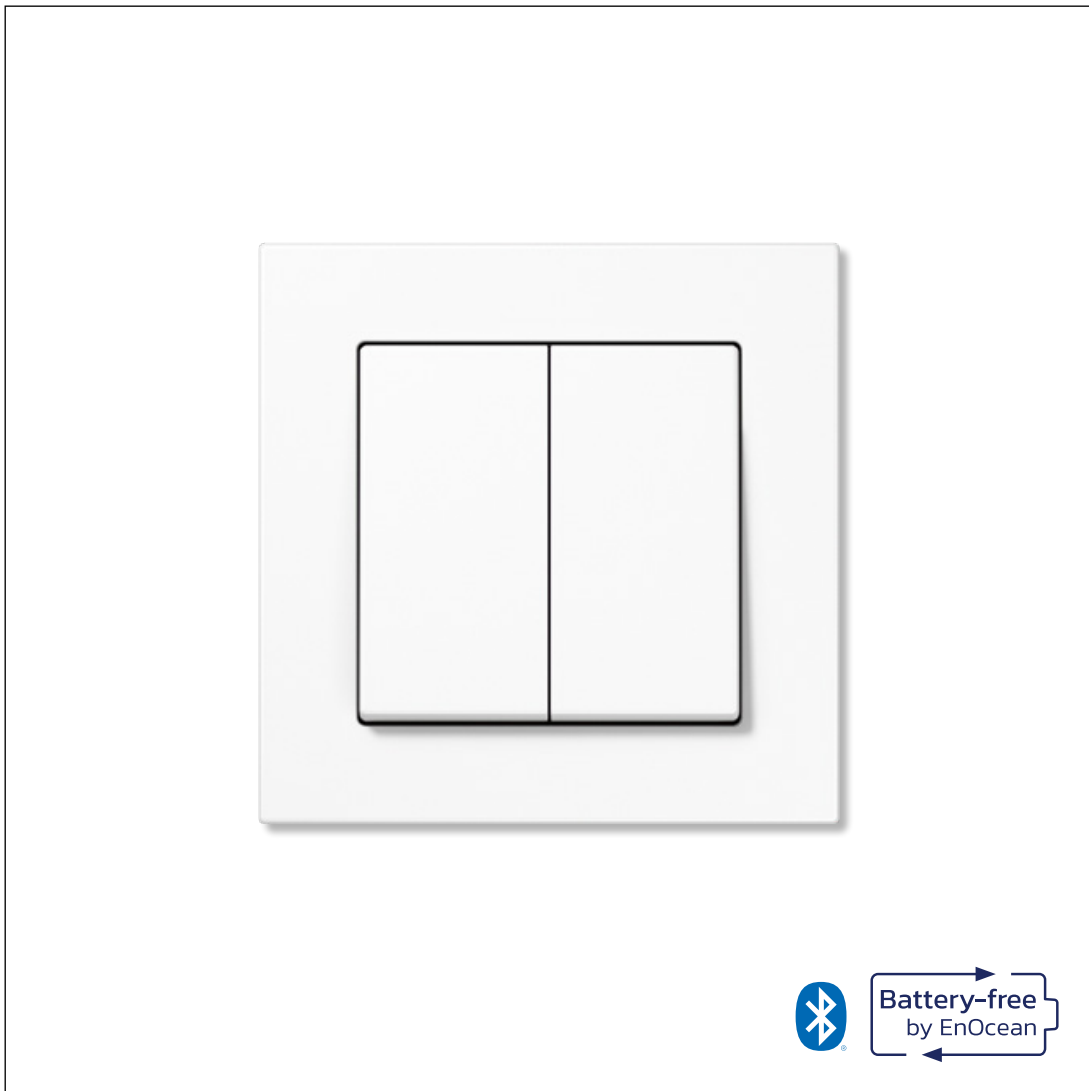
(Spare part)

80 KLEFO

- Adhesive fixing in indoor areas on window panes, walls or furniture



Wall-mounted transmitters with Bluetooth Low Energy



Wall-mounted transmitters with Bluetooth Low Energy operate lights and actuators from numerous manufacturers within compatible smart home systems. They are available in the JUNG A and LS ranges and work with battery-free EnOcean technology.



Ref.-no.

Bluetooth Low Energy radio transmitter

including mounting plate, adhesive film and fastening screw

- Smart switch for wireless device control using wireless standard Bluetooth Low Energy (BLE) • For switching, dimming and controlling individual light scenes • Mounting on flush box according to EN 60670-1, screw fixing on walls or adhesive fixing on smooth, even surfaces (glass) • Battery-free device without external power supply
- Transmitting energy is generated from mechanical energy of actuation (energy harvesting) • Encrypted transmission with AES-128 (CBC mode) and sequence counter • Compatible with these wireless Bluetooth systems: Casambi, XICATO Controls, Häfele Connect, WiSilica, Wirepas, Blu2Light (Vossloh Schwabe), Aruba, Fulham, Helvar • Configuration interface: NFC Forum Type 2 Tag (ISO/IEC 14443 Part 2 + 3) • Automatic range extension (depending on the system) via BT Mesh devices connected to the mains

Technical data

Radio frequency:	2.402 ... 2.480 GHz	Transmitting power:	0.4 dBm / 1.1 mW
Transmission range		Ambient temperature:	-5 ... +45 °C
in free field:	up to 75 m	Storage/transport temperature:	-25 ... +65 °C
in buildings:	approx. 10 m	Atmospheric humidity:	0 ... 95 % (no condensation)

A range

Bluetooth Low Energy radio transmitter

2-channel

Thermoplastic (breakproof) high-gloss


white  BLE A 590 WW

matt lacquered

matt anthracite  BLE A 590 ANM

4-channel

Thermoplastic (breakproof) high-gloss

white  BLE A 595 WW

matt lacquered


matt anthracite  BLE A 595 ANM

LS range

Bluetooth Low Energy radio transmitter

2-channel

Thermoplastic (breakproof) high-gloss

white  BLE LS 990 WW

black  BLE LS 990 SW

4-channel

Thermoplastic (breakproof) high-gloss

white  BLE LS 995 WW

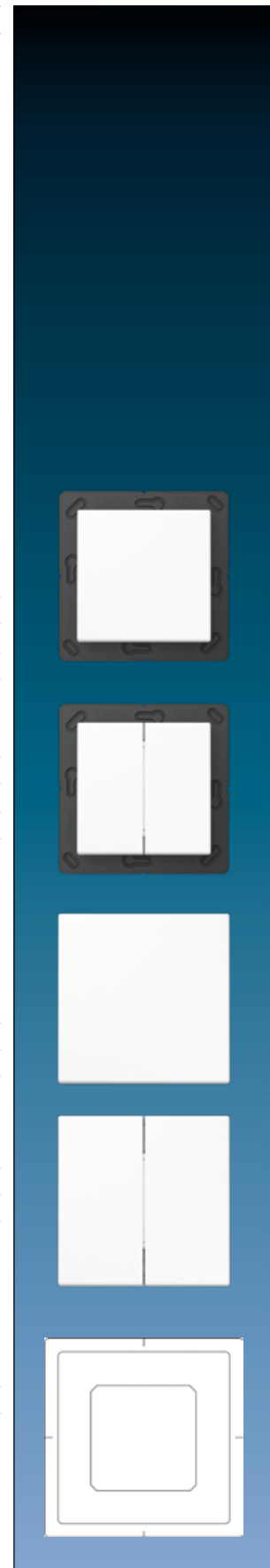
black  BLE LS 995 SW

Adhesive film for radio transmitter

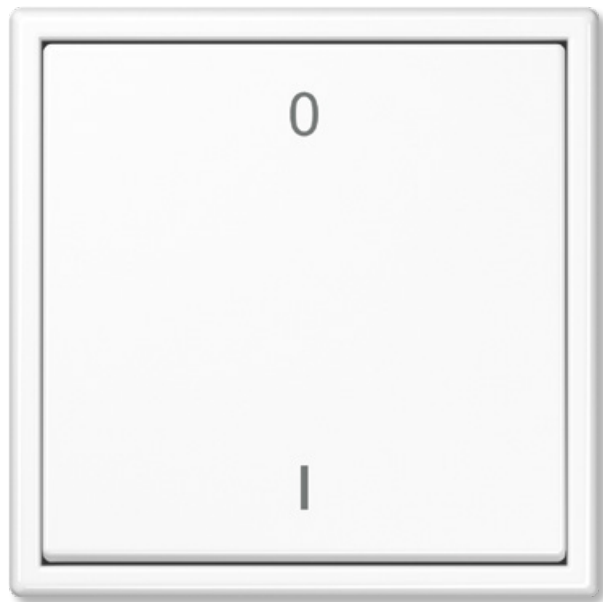
(Spare part)

 80 KLEFO

- Adhesive fixing in indoor areas on window panes, walls or furniture



Flush-mounting radio transmitters with EnOcean



ENOCEAN FLUSH-MOUNTING RADIO TRANSMITTER

The flush-mounting radio transmitters without batteries in the JUNG design transmit switching, dimming and blind commands to radio receivers from the EnOcean system. They generate their transmission energy from the mechanical pressure when actuated.

The JUNG EnOcean transmitters are compatible with all EnOcean receivers (EnOcean Ingredient Logo) – independent of the manufacturer.
Via gateways the transmitters can also communicate with various bus systems, e.g. KNX.

EnOcean Technology

The idea that led to this innovative technology is based on a very simple observation. Where sensors record a measurement reading, the level of energy changes. Pressing a button a change of temperature or brightness – there is enough energy in processes like these to transmit wireless signals over a distance of up to 300 meters. The radio technology that transmits reading and switching signals without battery, consists essentially of two components: First, the locally available energy is converted into electrical energy (Energy Harvesting). Then an extremely low-power electronics prepares the data and sends short radio signals to a special receiver unit. The wireless protocol is optimised to transmit information at extremely low energy with maximum security. EnOcean transmits radio signal with a frequency of 868 MHz.

Benefits

- Flexibility: no cabling, simple fitting and removal, e.g. switches on glass, stone, wood and furniture
- Simple planning of complex and flexible systems: optimal sensor positioning even for changing conditions of use
- Cost savings in installation, maintenance, renovation and energy use
- Environmentally friendly: far less cable material (copper, sheaths, etc.)
- Reduced risks through less fire load
- Subsequent fitting of wireless sensors in preservation listed buildings
- Interoperability: straightforward combination of products from a variety of manufacturers and for a wide selection of applications
- Scalability of the building system ensures a sustained building structure
- Time-savings: planning is speeded up, fast fitting, integration, configuration
- Service-free wireless sensors: no batteries needed, no replacement and disposal worries
- Little noise, dust and dirt

EnOcean radio transmitter

including mounting plate, adhesive film and fastening screw

Intended use

- Radio transmitter for the transmission of switching, dimming or shutter commands to radio receivers of the EnOcean radio system
- Mounting on flush box according to EN 60670-1, screw fixing on walls or adhesive fixing on smooth, even surfaces (glass)

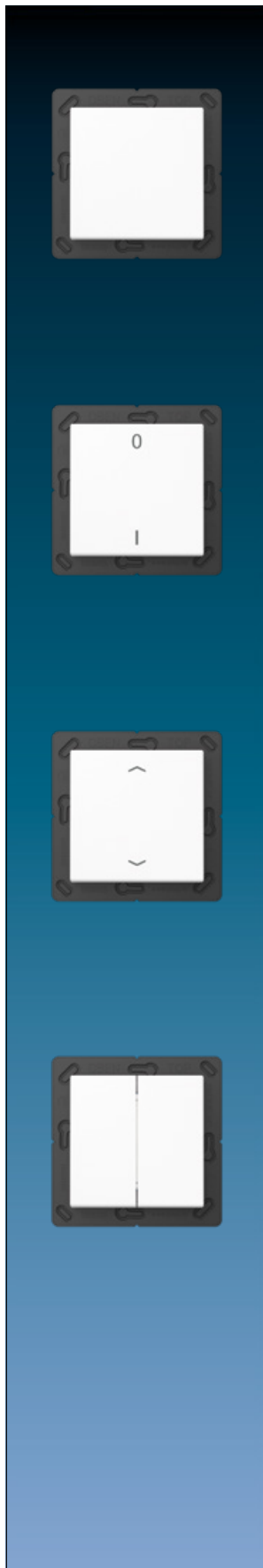
Product characteristics

- Battery-free device without external power supply
- Transmitting energy is generated from mechanical energy of actuation (energy harvesting)
- Configuration interface: NFC Forum Type 2 Tag (ISO/IEC 14443 Part 2 + 3)
- Optional: Encrypted transmission with AES-128 and sequence counter

Technical data

Carrier frequency:	868 MHz (ASK)
Transmission range	
in free field:	up to 300 m
in buildings:	approx. 30 m
Transmitting power:	-1.9 dBm / 0.7 mW
Ambient temperature:	-5 ... +45 °C
Storage/transport temperature:	-25 ... +65 °C
Atmospheric humidity:	0 ... 95 % (no condensation)

The JUNG EnOcean transmitters are compatible with all EnOcean receivers (EnOcean Ingredient Logo) – independent of the manufacturer. Via gateways the transmitters can also communicate with various bus systems, e.g. KNX.



		Ref.-no.
AS and A ranges		
EnOcean radio transmitter		
Thermoplastic (breakproof) high-gloss		
ivory	2-channel	ENO A 590
white	2-channel	ENO A 590 WW
black	2-channel	ENO A 590 SW
Thermoplastic (breakproof) lacquered		
aluminium	2-channel	ENO A 590 AL
matt lacquered		
matt snow white	2-channel	ENO A 590 WWM
matt graphite black	2-channel	ENO A 590 SWM
matt anthracite	2-channel	ENO A 590 ANM
EnOcean radio transmitter with symbols 0 1		
Thermoplastic (breakproof) high-gloss		
ivory	2-channel	ENO A 590-01
white	2-channel	ENO A 590-01 WW
black	2-channel	ENO A 590-01 SW
Thermoplastic (breakproof) lacquered		
aluminium	2-channel	ENO A 590-01 AL
matt lacquered		
matt snow white	2-channel	ENO A 590-01 WWM
matt graphite black	2-channel	ENO A 590-01 SWM
matt anthracite	2-channel	ENO A 590-01 ANM
EnOcean radio transmitter with symbols ▲ ▼		
Thermoplastic (breakproof) high-gloss		
ivory	2-channel	ENO A 590 P
white	2-channel	ENO A 590 P WW
black	2-channel	ENO A 590 P SW
Thermoplastic (breakproof) lacquered		
aluminium	2-channel	ENO A 590 P AL
matt lacquered		
matt snow white	2-channel	ENO A 590 P WWM
matt graphite black	2-channel	ENO A 590 P SWM
matt anthracite	2-channel	ENO A 590 P ANM
EnOcean radio transmitter		
Thermoplastic (breakproof) high-gloss		
ivory	4-channel	ENO A 595
white	4-channel	ENO A 595 WW
black	4-channel	ENO A 595 SW
Thermoplastic (breakproof) lacquered		
aluminium	4-channel	ENO A 595 AL
matt lacquered		
matt snow white	4-channel	ENO A 595 WWM
matt graphite black	4-channel	ENO A 595 SWM
matt anthracite	4-channel	ENO A 595 ANM

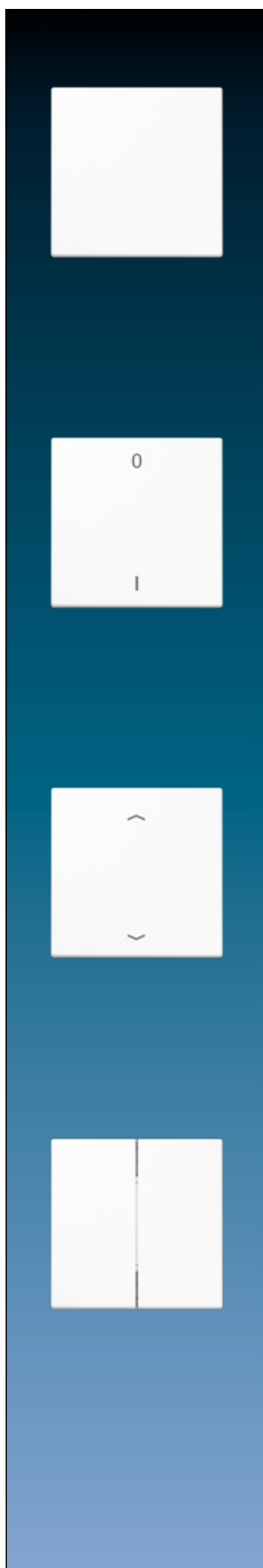
The JUNG EnOcean transmitters are compatible with all EnOcean receivers (EnOcean Ingredient Logo) – independent of the manufacturer.
Via gateways the transmitters can also communicate with various bus systems, e.g. KNX.

		Ref.-no.
EnOcean radio transmitter with symbols 0 I		
Thermoplastic (breakproof) high-gloss		
ivory	4-channel	ENO A 595-01
white	4-channel	ENO A 595-01 WW
black	4-channel	ENO A 595-01 SW
Thermoplastic (breakproof) lacquered		
aluminium	4-channel	ENO A 595-01 AL
matt lacquered		
matt snow white	4-channel	ENO A 595-01 WWM
matt graphite black	4-channel	ENO A 595-01 SWM
matt anthracite	4-channel	ENO A 595-01 ANM
EnOcean radio transmitter with symbols ▲▼		
Thermoplastic (breakproof) high-gloss		
ivory	4-channel	ENO A 595 MP
white	4-channel	ENO A 595 MP WW
black	4-channel	ENO A 595 MP SW
Thermoplastic (breakproof) lacquered		
aluminium	4-channel	ENO A 595 MP AL
matt lacquered		
matt snow white	4-channel	ENO A 595 MP WWM
matt graphite black	4-channel	ENO A 595 MP SWM
matt anthracite	4-channel	ENO A 595 MP ANM
EnOcean radio transmitter with symbols 0 I and ▲▼		
Thermoplastic (breakproof) high-gloss		
ivory	4-channel	ENO A 595 P01
white	4-channel	ENO A 595 P01 WW
black	4-channel	ENO A 595 P01 SW
Thermoplastic (breakproof) lacquered		
aluminium	4-channel	ENO A 595 P01 AL
matt lacquered		
matt snow white	4-channel	ENO A 595 P01 WWM
matt graphite black	4-channel	ENO A 595 P01 SWM
matt anthracite	4-channel	ENO A 595 P01 ANM
EnOcean module for AS and A ranges		
(Spare part)		
for 2- and 4-channel applications		ENO A 42 F
Adhesive film for radio transmitter		
(Spare part)		
		80 KLEFO

- Adhesive fixing in indoor areas on window panes, walls or furniture



The JUNG EnOcean transmitters are compatible with all EnOcean receivers (EnOcean Ingredient Logo) – independent of the manufacturer. Via gateways the transmitters can also communicate with various bus systems, e.g. KNX.



		Ref.-no.
LS range		
EnOcean radio transmitter		
Thermoplastic (breakproof) high-gloss		
ivory	2-channel	ENO LS 990
white	2-channel	ENO LS 990 WW
light grey	2-channel	ENO LS 990 LG
black	2-channel	ENO LS 990 SW
matt lacquered		
matt snow white	2-channel	ENO LS 990 WWM
matt graphite black	2-channel	ENO LS 990 SWM
metal colours (thermoplastic lacquered)		
aluminium (lacquered)	2-channel	ENO AL 2990-L
stainless steel (lacquered)	2-channel	ENO ES 2990-L
EnOcean radio transmitter with symbols 0 1		
Thermoplastic (breakproof) high-gloss		
ivory	2-channel	ENO LS 990-01
white	2-channel	ENO LS 990-01 WW
light grey	2-channel	ENO LS 990-01 LG
black	2-channel	ENO LS 990-01 SW
matt lacquered		
matt snow white	2-channel	ENO LS 990-01 WWM
matt graphite black	2-channel	ENO LS 990-01 SWM
metal colours (thermoplastic lacquered)		
aluminium (lacquered)	2-channel	ENO AL 2990-01-L
stainless steel (lacquered)	2-channel	ENO ES 2990-01-L
EnOcean radio transmitter with symbols ▲ ▼		
Thermoplastic (breakproof) high-gloss		
ivory	2-channel	ENO LS 990 P
white	2-channel	ENO LS 990 P WW
light grey	2-channel	ENO LS 990 P LG
black	2-channel	ENO LS 990 P SW
matt lacquered		
matt snow white	2-channel	ENO LS 990 P WWM
matt graphite black	2-channel	ENO LS 990 P SWM
metal colours (thermoplastic lacquered)		
aluminium (lacquered)	2-channel	ENO AL 2990 P-L
stainless steel (lacquered)	2-channel	ENO ES 2990 P-L
EnOcean radio transmitter		
Thermoplastic (breakproof) high-gloss		
ivory	4-channel	ENO LS 995
white	4-channel	ENO LS 995 WW
light grey	4-channel	ENO LS 995 LG
black	4-channel	ENO LS 995 SW
matt lacquered		
matt snow white	4-channel	ENO LS 995 WWM
matt graphite black	4-channel	ENO LS 995 SWM
metal colours (thermoplastic lacquered)		
aluminium (lacquered)	4-channel	ENO AL 2995-L
stainless steel (lacquered)	4-channel	ENO ES 2995-L

The JUNG EnOcean transmitters are compatible with all EnOcean receivers (EnOcean Ingredient Logo) – independent of the manufacturer.
Via gateways the transmitters can also communicate with various bus systems, e.g. KNX.

		Ref.-no.
EnOcean radio transmitter with symbols 0 I		
Thermoplastic (breakproof) high-gloss		
ivory	4-channel	ENO LS 995-01
white	4-channel	ENO LS 995-01 WW
light grey	4-channel	ENO LS 995-01 LG
black	4-channel	ENO LS 995-01 SW
matt lacquered		
matt snow white	4-channel	ENO LS 995-01 WWM
matt graphite black	4-channel	ENO LS 995-01 SWM
metal colours (thermoplastic lacquered)		
aluminium (lacquered)	4-channel	ENO AL 2995-01-L
stainless steel (lacquered)	4-channel	ENO ES 2995-01-L
EnOcean radio transmitter with symbols ▲▼		
Thermoplastic (breakproof) high-gloss		
ivory	4-channel	ENO LS 995 MP
white	4-channel	ENO LS 995 MP WW
light grey	4-channel	ENO LS 995 MP LG
black	4-channel	ENO LS 995 MP SW
matt lacquered		
matt snow white	4-channel	ENO LS 995 MP WWM
matt graphite black	4-channel	ENO LS 995 MP SWM
metal colours (thermoplastic lacquered)		
aluminium (lacquered)	4-channel	ENO AL 2995 MP-L
stainless steel (lacquered)	4-channel	ENO ES 2995 MP-L
EnOcean radio transmitter with symbols 0 I and ▲▼		
Thermoplastic (breakproof) high-gloss		
ivory	4-channel	ENO LS 995 P01
white	4-channel	ENO LS 995 P01 WW
light grey	4-channel	ENO LS 995 P01 LG
black	4-channel	ENO LS 995 P01 SW
matt lacquered		
matt snow white	4-channel	ENO LS 995 P01 WWM
matt graphite black	4-channel	ENO LS 995 P01 SWM
metal colours (thermoplastic lacquered)		
aluminium (lacquered)	4-channel	ENO AL 2995 P01-L
stainless steel (lacquered)	4-channel	ENO ES 2995 P01-L
EnOcean module for LS range		
(Spare part) for 2- and 4-channel applications		ENO LS 42 F
Adhesive film for radio transmitter		
(Spare part)		80 KLEFO

- Adhesive fixing in indoor areas on window panes, walls or furniture



Overview of the advantages

SIMPLE, FAST INSTALLATION

Modular system in which inserts and covers can be combined depending on the required function. Simple connector system for cover and insert and plenty of room for wiring to enable fast working.



BACKWARDS COMPATIBILITY

Only individual modules from existing light and blind management installations can also be replaced by new ones from LB management and "old and new" used together.



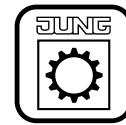
TEST BUTTON/OPERATING MODE SWITCH

At the site, test operation is possible using the test button without the cover. It is also used to set various operating modes. This optimises commissioning even more.



CLEVER CONFIG APP

With this app, the Bluetooth devices of the LB Management are set and operated using a smartphone: Convenient control of the functions, displays of values and states, creation of time controls, and configuration.



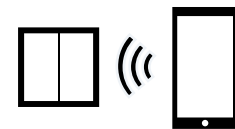
CONTROLLING LIGHT, SHADE AND TEMPERATURE

Light, shading and temperature control in one system and one design. From switching and dimming to comfortable temperature: always easy to operate due to identical covers.



CONVENIENT OPERATION

Manually using control buttons with clear symbols for identification of functions. By Bluetooth from a smartphone. Automatically using a timer switch, presence detector or automatic switch. Always intuitive.



BLUETOOTH LOW ENERGY

With Bluetooth Low Energy, connecting and data transmission are particularly convenient. Therefore, this technology is used for LB Management – not just for configuration but also for operation. Independent of WLAN and networks.



INEXPENSIVE RETROFITTING

In existing light or blind management installations, the components can be easily replaced by a specialist tradesman or further modules seamlessly added. Inexpensive, without great effort.



LB Management



STANDARD TIMER WITH DISPLAY

JUNG LB Management is the new system for modern lighting and automatic shading control. Using the combination of various inserts and covers, the modular system provides a needs-based and easy to use solution for almost every desired function. When retrofitting existing installations, individual components (always insert plus cover) can also be replaced by new devices from LB Management and the others can continue to be used.

Operating controls



STANDARD CENTRE PLATE

The standard centre plate is a 1-channel attachment for all LB Management inserts. Operation of light and shade is manual. The button can be actuated at the top, bottom and also full surface. The attachment is available with or without symbols.



UNIVERSAL CENTRE PLATE

The universal centre plate with memory and lock function is suitable for almost all LB Management inserts. A coloured LED is assigned to each rocker half and is used for the function or status display. Operation is performed manually or automatically. The cover for the automatic shading control is available with appropriate arrow symbols.



STANDARD TIMER WITH DISPLAY

The blinds centre plate with timer function "standard" is a 1-channel timer for all inserts. The high-quality, real glass surface has an illuminated display and six sensor buttons for operation. The current time can be saved as the switching time using fast programming. The lock function deactivates automatic functions, satellites and timer programmes. Thanks to the Astro function, switching times are adapted to the position of the sun.



UNIVERSAL TIMER BLUETOOTH

The blinds centre plate with timer function "universal" is an attachment for all inserts for lighting and automatic shading control. It is operated either manually with the two rockers or with a smartphone using the Clever Config app. Colour LEDs for function display and the appropriate button imprints optimise use.



ROOM THERMOSTAT WITH DISPLAY

With the room thermostat, JUNG integrates the temperature control in LB Management. The new thermostat is identical to the standard timer with display in both design and operating concept. The temperature can thus be controlled as effortlessly as lighting or blinds.

Inserts

LIGHT INSERTS

From simple switching to dimming energy saving lamps or Tunable White control, the light inserts provide all possibilities. Possible as a master unit just as much as a satellite unit.

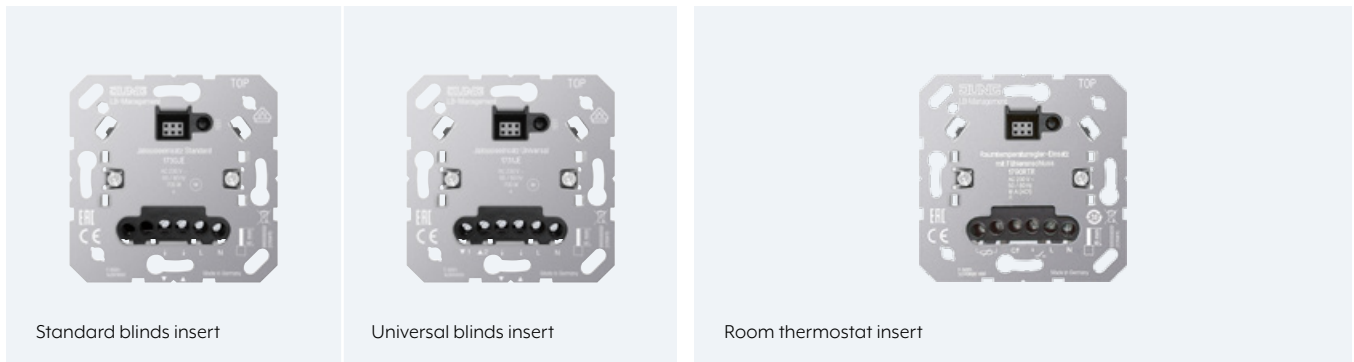


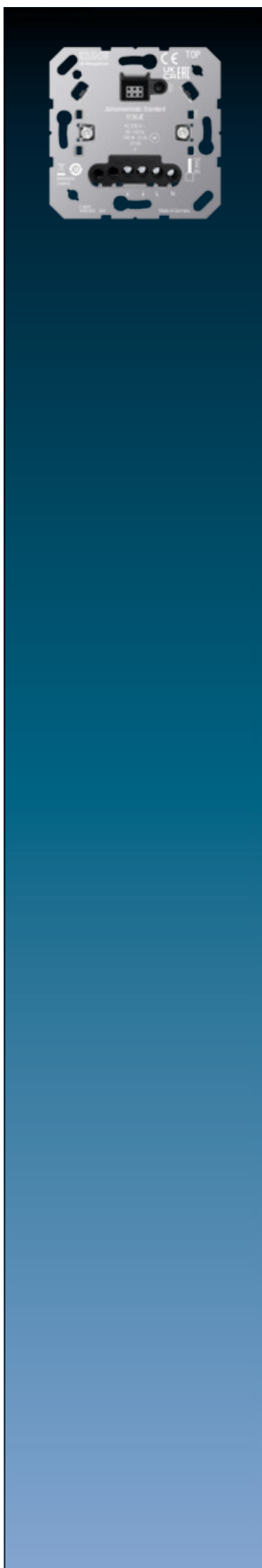
BLIND INSERTS

All requirements for modern automatic shading control are covered with the two blind inserts "Standard" and "Universal" in combination with the LB Management covers.

THERMOSTAT INSERT

The room thermostat has time programs available and can if required be used for heating or cooling.





Ref.-no.

Standard blinds insert

without satellite input

for covers ref.-no.: .. 1700 .., .. 1701 .., .. 1750 D .., .. 1751 BT ..

1730 JE

Intended use

- Controlling electrically driven blinds, shutters and awnings
- Automatic time control via cover
- Operation with suitable cover of the LB Management
- Installation in flush box according to EN 60670-1

Product characteristics

- Automatic control via timer
- Test operation for functional test
- Pole changing of outputs for simplified commissioning from version V01 upwards
- Saving of a ventilation position possible using the cover

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50/60 Hz
Ambient temperature:	-5 ... +45 °C
Contact type:	μ
Stand-by power:	max. 0.5 W
Running time:	approx. 120 s
Connected load	
Motors:	700 W
Connection	
Connection mode:	screw terminals
single wire:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded without ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded with ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 1.5 mm ²

Ref.-no.

Universal blinds insert

with satellite input

for covers ref.-no.: .. 1700 .., .. 1701 .., .. 1750 D .., .. 1751 BT ..

1731 JE

Intended use

- Controlling electrically driven blinds, shutters and awnings
- Automatic time control via cover or satellite input
- Operation with suitable cover of the LB Management
- Installation in flush box according to EN 60670-1

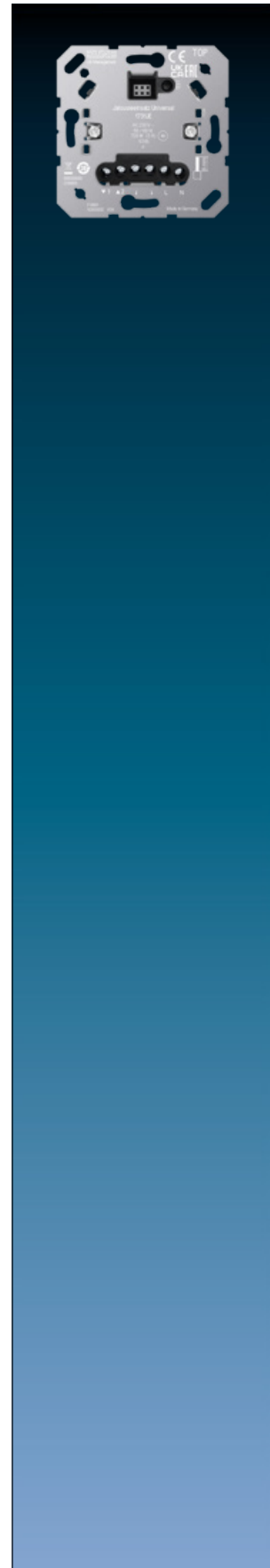
Product characteristics

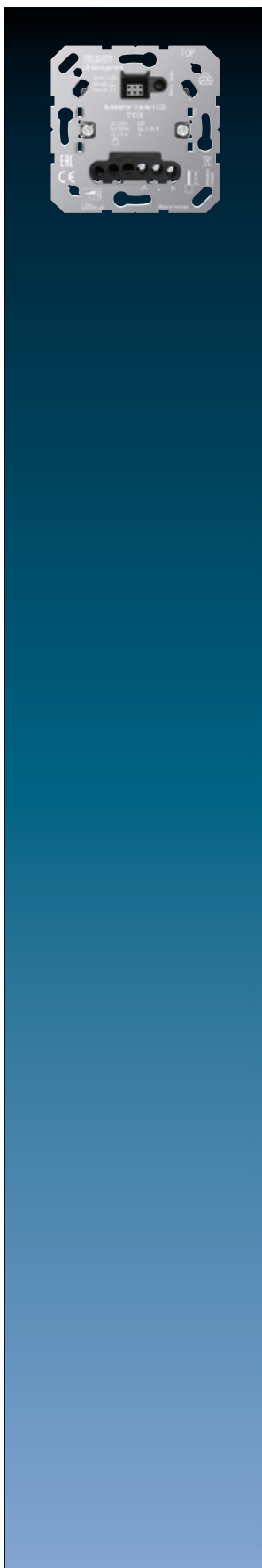
- The integration into group controls or master controls is possible by means of extension inputs
- Automatic control via timer
- Test operation for functional test
- Operation as a main device or extension unit
- Wind alarm interlock via the extension input
- Pole changing of outputs for simplified commissioning from version V01 upwards
- Saving of a ventilation position possible using the cover

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50/60 Hz
Ambient temperature:	-5 ... +45 °C
Contact type:	μ
Stand-by power:	max. 0.2 W
Running time:	approx. 120 s
Connected load	
Motors:	700 W
Connection	
Connection mode:	screw terminals
single wire:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded without ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded with ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 1.5 mm ²

Decoupling relays, weather station and awning control: starting from page 290





Ref.-no.

Standard touch dimmer insert LED

without satellite input

for covers ref.-no.: .. 1700 .., .. 1701 .., .. 1750 D .., .. 1751 BT .., .. 17180 .., .. 17280 .., .. 17181 .., .. 17281 .., DWPM 17360 ..

1710 DE

Intended use

- Switching and dimming of lighting
- Operation with suitable cover of the LB Management
- Installation in flush box according to EN 60670-1

Product characteristics

- Device works according to the leading edge phase control or trailing edge phase control principle
- Automatic or manual setting of the dimming principle suitable for the load
- Display of the set operating mode by means of LED
- Device can be operated without neutral conductor
- Switch-on via bulb-preserving soft start
- Switch-on with last brightness or saved switch-on brightness
- Switch-on brightness can be saved permanently
- Minimum brightness can be saved permanently
- Electronic short-circuit protection with permanent switch-off after 7 seconds at the latest
- Electronic over-temperature protection
- Test operation for functional test
- Power extension possible by means of power boosters (ref.-no. ULZ 1755 REG)
- Optional accessory: compensation module LED, ref.-no.: KM LED 230 U

Technical data

Rated voltage: AC 230 V ~
 Mains frequency: 50/60 Hz
 Power loss: approx. 2 W
 Ambient temperature: -5 ... +45 °C
 Connected load at 25 °C

Incandescent lamps:	20 ... 210 W
HV halogen lamps:	20 ... 210 W
Electronic transformers:	20 ... 210 W
Electronic transformers with LV LED:	typical 20 ... 60 W
Inductive transformers:	20 ... 210 VA
Inductive transformers with LV LED:	typical 20 ... 60 VA
Dimmable HV LED lamps:	typical 3 ... 60 W
Dimmable compact fluorescent lamps:	typical 3 ... 60 W

With setting "LED trailing edge phase control" the max. connection power for HV LED lamps and electronic transformers with LV LED doubles.

Ohmic-capacitive:	20 ... 210 W
Capacitive-inductive:	not permitted
Ohmic-inductive:	20 ... 210 VA
Ohmic and HV LED:	typical 3 ... 60 W
Ohmic and CFL:	typical 3 ... 60 W

Amplifiers: see instructions for amplifier

Connection:	screw terminals
single wire:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded without ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded with ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 1.5 mm ²
Total length power cable:	max. 100 m



Ref.-no.

Universal touch dimmer insert LED

with satellite input

for covers ref.-no.: .. 1700 .., .. 1701 .., .. 1750 D .., .. 1751 BT .., .. 17180 ..,
.. 17280 .., .. 17181 .., .. 17281 .., DWPM 17360 ..

1711 DE

Intended use

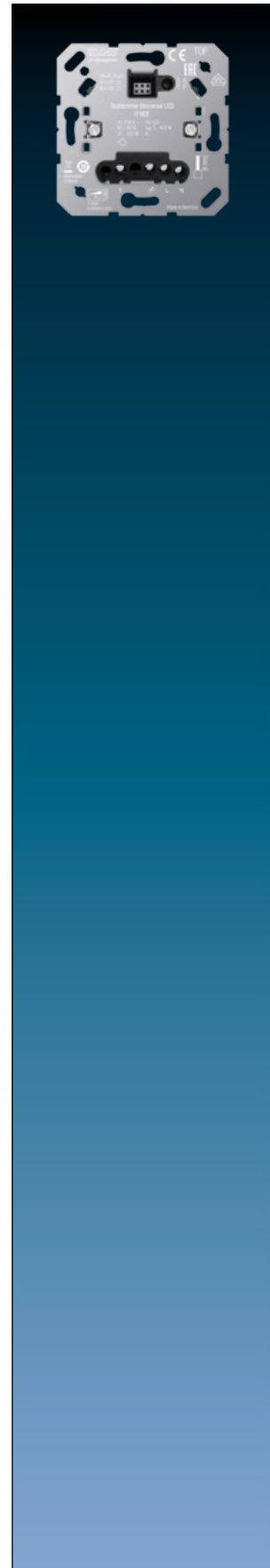
• Switching and dimming of lighting • Operation with suitable cover of the LB Management • Installation in flush box according to EN 60670-1

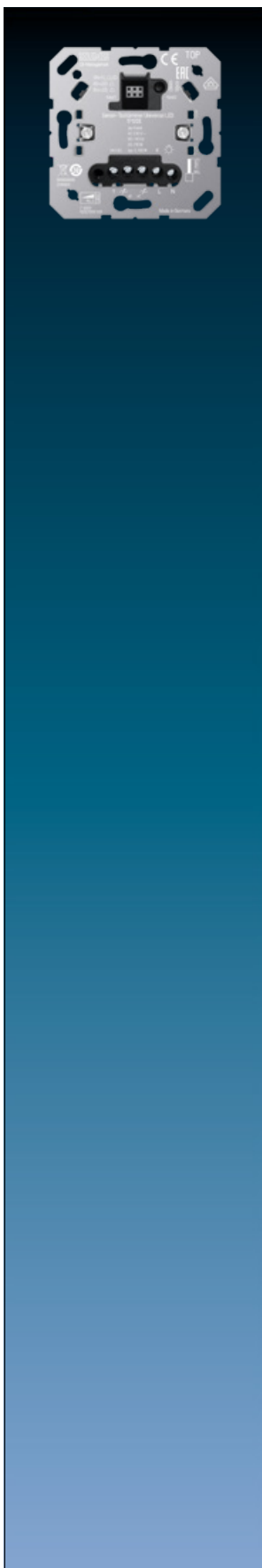
Product characteristics

• Device works according to the leading edge phase control or trailing edge phase control principle • Automatic or manual setting of the dimming principle suitable for the load • Display of the set operating mode by means of LED • Device can be operated without neutral conductor • Switch-on via bulb-preserving soft start • Switch-on with last brightness or saved switch-on brightness • Switch-on brightness can be saved permanently • Minimum brightness can be saved permanently • Connection of satellite units possible • Electronic short-circuit protection with permanent switch-off after 7 seconds at the latest • Electronic over-temperature protection • Test operation for functional test • Key card function • Power extension possible by means of power boosters (ref.-no. ULZ 1755 REG) • Optional accessory: compensation module LED, ref.-no.: KM LED 230 U

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50/60 Hz
Stand-by power depending on the cover:	approx. 0.1 ... 0.5 W
Power loss:	approx. 4 W
Ambient temperature:	-5 ... +45 °C
Connected load at 25 °C	
Incandescent lamps:	20 ... 420 W
HV halogen lamps:	20 ... 420 W
Electronic transformers:	20 ... 420 W
Electronic transformers with LV LED:	typical 20 ... 100 W
Inductive transformers:	20 ... 420 VA
Inductive transformers with LV LED:	typical 20 ... 100 VA
Dimmable HV LED lamps:	typical 3 ... 100 W
Dimmable compact fluorescent lamps:	typical 3 ... 100 W
Operating mode LED trailing edge phase control: Rated power for HV LED lamps, typ. 3 ... 400 W, electronic transformers with LV LED typ. 20 ... 200 W.	
Ohmic-capacitive:	20 ... 420 W
Capacitive-inductive:	not permitted
Ohmic-inductive:	20 ... 420 VA
Ohmic and HV LED:	typical 3 ... 100 W
Ohmic and CFL:	typical 3 ... 100 W
Amplifiers:	see instructions for amplifier
Connection:	screw terminals
single wire:	1 x 0.5 ... 4.0 mm ²
stranded without ferrule:	2 x 0.5 ... 2.5 mm ²
stranded with ferrule:	1 x 0.5 ... 4.0 mm ²
stranded with ferrule:	2 x 0.5 ... 2.5 mm ²
stranded with ferrule:	1 x 0.5 ... 4.0 mm ²
stranded with ferrule:	2 x 0.5 ... 1.5 mm ²
Number of satellite units	
Satellite insert 2-wire 1720 NE:	unlimited
Satellite insert 3-wire 1723 NE:	10
Rotary satellite insert 3-wire 1733 DNE:	10
Push-buttons:	unlimited
Total length of extension unit cable:	max. 100 m
Total length power cable:	max. 100 m





Ref.-no.

Universal 2-gang touch dimmer insert LED

with satellite input
for covers ref.-no.: .. 1702 ..

1712 DE

Intended use

- Switching and dimming of lighting
- Operation with suitable cover of the LB Management
- Installation in flush box according to EN 60670-1

Product characteristics

- Two independent outputs for two light groups
- Asymmetric load distribution possible
- Device works according to the leading edge phase control or trailing edge phase control principle
- Automatic or manual setting of the dimming principle suitable for the load
- Display of the set operating mode by means of LED
- Device can be operated without neutral conductor
- Switch-on via bulb-preserving soft start
- Switch-on with last brightness or saved switch-on brightness
- Switch-on brightness can be saved permanently
- Minimum brightness can be saved permanently
- Connection of satellite units possible
- Electronic short-circuit protection with permanent switch-off after 7 seconds at the latest
- Electronic over-temperature protection
- Test operation for functional test
- Power extension possible by means of power boosters (ref.-no. ULZ 1755 REG)
- Optional accessory: compensation module LED, ref.-no.: KM LED 230 U

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50/60 Hz
Stand-by power depending on the cover:	approx. 0.1 ... 0.5 W
Power loss:	approx. 4 W
Ambient temperature:	-5 ... +45 °C
Connected load per output at 25 °C	
Incandescent lamps:	20 ... 210 W
HV halogen lamps:	20 ... 210 W
Electronic transformers:	20 ... 210 W
Electronic transformers with LV LED:	typical 20 ... 50 W
Inductive transformers:	20 ... 210 VA
Inductive transformers with LV LED:	typical 20 ... 50 VA
Dimmable HV LED lamps:	typical 3 ... 50 W
Dimmable compact fluorescent lamps:	typical 3 ... 50 W
With setting "LED trailing edge phase control" the max. connection power for HV LED lamps and electronic transformers with LV LED doubles.	
Ohmic-capacitive:	20 ... 210 W
Capacitive-inductive:	not permitted
Ohmic-inductive:	20 ... 210 VA
Ohmic and HV LED:	typical 3 ... 50 W
Ohmic and CFL:	typical 3 ... 50 W
Amplifiers:	see instructions for amplifier
Connection:	screw terminals
single wire:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded without ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded with ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 1.5 mm ²
Number of satellite units	
Satellite insert 2-wire 1720 NE:	unlimited
Satellite insert 3-wire 1723 NE:	10
Rotary satellite insert 3-wire 1733 DNE:	10
Push-buttons:	unlimited
Total length of extension unit cable:	max. 100 m
Total length of power cable:	max. 100 m



Ref.-no.

Power DALI push-button controller TW

with satellite input

for covers ref.-no.: .. 1700 .., .. 1701 .., .. 1702 .., .. 1750 D .., .. 1751 BT ..,
.. 17180 .., .. 17280 .., .. 17181 .., .. 17281 .., DWPM 17360 ..

1713 DSTE

Intended use

- Switching and brightness setting for luminaires with DALI interface
- Setting of colour temperature for luminaires with DALI Device Type 8 for tunable white acc. to IEC 62386-209
- Operation with suitable cover of the LB Management
- If several automatic switches are to be used, a DALI push-button controller can be connected to up to five 3-wire satellite inserts. Parallel connection of several DALI push-button controllers with automatic switches or motion/presence detectors is not possible.
- Installation in flush box according to EN 60670-1

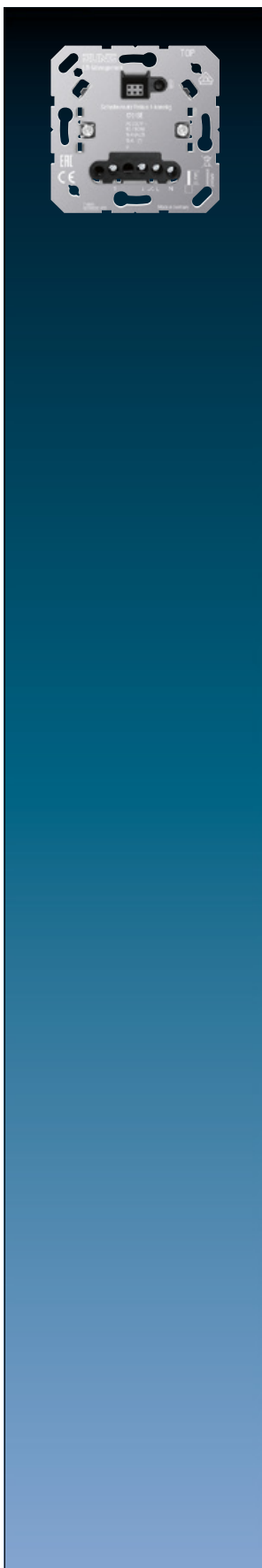
Product characteristics

- DALI supply for a maximum of 18 subscribers
- Parallel switching of up to 4 DALI control units with the option of supplying up to 72 DALI subscribers
- Saving of minimum brightness, coldest and warmest colour temperature
- Switch-on with last brightness / colour temperature or saved switch-on brightness / colour temperature
- With centre plate 2-gang: Adjustment of the colour temperature via right rocker
- Test operation for functional test

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50/60 Hz
Power consumption:	max. 2.8 W
Ambient temperature:	-5 ... +45 °C
Rated voltage DALI:	DC 16 V
Output current:	max. 36 mA
Short-circuit current:	max. 60 mA
Colour temperature setting:	2,000 ... 10,000 K
Number of DALI devices:	max. 18
Number of control units in parallel:	max. 4
Connection:	screw terminals
single wire:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded without ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded with ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 1.5 mm ²





Ref.-no.

Relay switch insert 1-channel

with satellite input

for covers ref.-no.: .. 1700 .., .. 1701 .., .. 1750 D .., .. 1751 BT .., .. 17180 ..,
 .. 17280 .., .. 17181 .., .. 17281 .., DWPM 17360 ..
 for displays ref.-no.: .. 1790 D ..

1701 SE

Intended use

- Switching of lighting and motors
- Operation with suitable cover of the LB Management
- Controlling of electric underfloor heating systems and electrothermal valve drives in combination with a room thermostat cover
- Installation in flush box according to EN 60670-1

Product characteristics

- Connection of satellite units possible
- Run-on times adjustable
- Test operation for functional test
- Adaptive zero-point switching

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50/60 Hz
Stand-by power depending on the cover:	approx. 0.1 ... 0.5 W
Switching current at 35 °C	
Ohmic:	16 A (AC1)
Connected load	
Incandescent lamps:	2300 W
HV halogen lamps:	2300 W
Electronic transformers:	1500 W
Inductive transformers:	1000 VA
HV LED lamps:	typical 400 W
Compact fluorescent lamps:	typical 500 W
Fluorescent lamps	
non-compensated:	1200 VA
Motor switching current:	6 A
Capacitive load:	920 VA (115 µF)
Connection:	screw terminals
single wire:	1 x 0.5 ... 4.0 mm ²
	2 x 0.5 ... 2.5 mm ²
stranded without ferrule:	1 x 0.5 ... 4.0 mm ²
	2 x 0.5 ... 2.5 mm ²
stranded with ferrule:	1 x 0.5 ... 4.0 mm ²
	2 x 0.5 ... 1.5 mm ²
Ambient temperature:	-25 ... +45 °C
Storage/transport temperature:	-20 ... +70 °C
Number of satellite units	
Satellite insert 2-wire 1720 NE:	unlimited
Satellite insert 3-wire 1723 NE:	10
Push-buttons:	unlimited
Shut-off delay:	without, 1 min, 5 min, 30 min, 60 min

Ref.-no.

Relay switch insert 2-channel

with satellite input

for covers ref.-no.: .. 1700 .., .. 1701 .., .. 1702 .., .. 1750 D .., .. 1751 BT .., .. 17180 .., .. 17280 .., .. 17181 .., .. 17281 .., DWPM 17360 ..

1702 SE

Intended use

• Switching of lighting and motors • Operation with suitable cover of the LB Management • Installation in flush box according to EN 60670-1

- Output a2 switches depending on output a1 e.g. to switch on ventilation, depending on the lighting, and switch it off with a delay.
- Switch-on delay of output a2 adjustable
- Run-on time of output a2 adjustable

Product characteristics

- Connection of satellite units possible
- Test operation for functional test

In combination with satellite insert 3-wire and centre plate 2-gang:
• Two independent outputs

In combination with centre plate 2-gang:

- Two independent outputs
- Time function for output a2 adjustable

In combination with satellite insert 2-wire, rotary satellite insert or push-button:

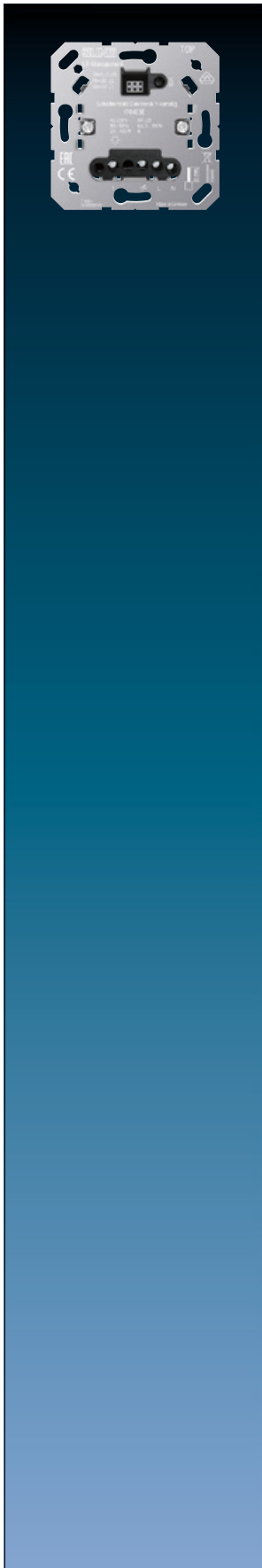
- Output a2 switches depending on output a1 e.g. to switch on ventilation, depending on the lighting, and switch it off with a delay.

In combination with centre plate (ref.-no. ..1700.., ..1701..), timer, automatic switch:

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50/60 Hz
Stand-by power depending on the cover:	approx. 0.1 ... 0.5 W
Ambient temperature:	-25 ... +45 °C
Storage/transport temperature:	-20 ... +70 °C
Switching current per device:	Σ 16 A
Switching current per channel for 25 °C	
Ohmic:	10 A (AC1)
Motors:	3 A (cos φ = 0.68)
Connected load per channel for 25 °C	
Incandescent lamps:	1500 W
HV halogen lamps:	1500 W
Electronic transformers:	1000 W
Inductive transformers:	625 VA
HV LED lamps:	typical 500 W
Compact fluorescent lamps:	typical 500 W
Fluorescent lamps non-compensated:	750 VA
Capacitive load:	580 VA (70 μF)
Connection:	screw terminals
single wire:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded without ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded with ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 1.5 mm ²
Number of satellite units	
Satellite insert 2-wire 1720 NE:	unlimited
Satellite insert 3-wire 1723 NE:	10
Rotary satellite insert 3-wire 1733 DNE:	10
Push-buttons:	unlimited
Shut-off delay:	without, 1 min, 5 min, 30 min, 60 min
Switch-on delay:	without, 3 min





Ref.-no.

Electronic switch insert 1-channel

with satellite input

for covers ref.-no.: .. 1700 .., .. 1701 .., .. 1750 D .., .. 1751 BT .., .. 17180 ..,
.. 17280 .., .. 17181 .., .. 17281 .., DWPM 17360 ..
for displays ref.-no.: .. 1790 D ..

1704 ESE

Intended use

- Operation with suitable cover of the LB Management
- Installation in flush box according to EN 60670-1

Operation with neutral conductor:

- Switching of incandescent lamps, HV halogen lamps, electronic or inductive transformers with halogen or LED lamps, switchable or dimmable HV-LED or compact fluorescent lamps

Operation without neutral conductor:

- Switching of incandescent lamps, HV halogen lamps, electronic or inductive transformers with halogen or LED lamps, dimmable HV-LED or compact fluorescent lamps

Product characteristics

- Switch-on via bulb-preserving soft start
- Connection of satellite units possible
- Electronic short-circuit protection with permanent switch-off after 7 seconds at the latest
- Electronic over-temperature protection
- Test operation for functional test

Operation with neutral conductor:

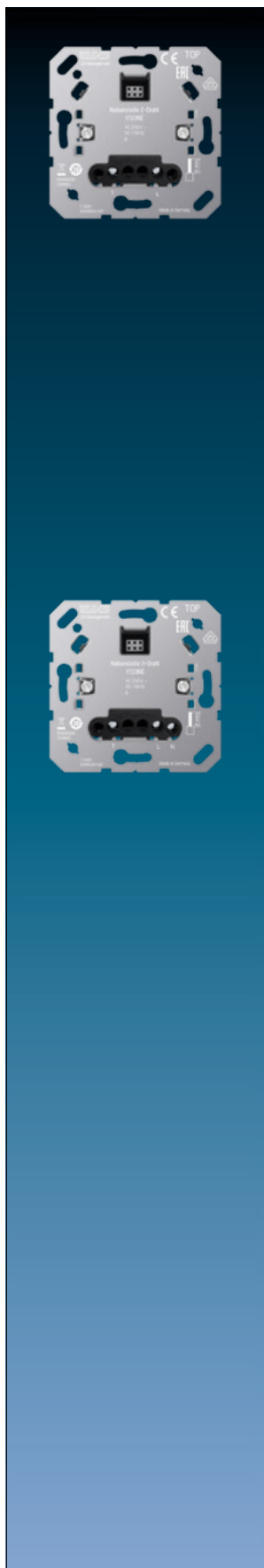
- Device is powered via phase conductor and neutral conductor , therefore there is no leading edge phase control or trailing edge phase control

Operation without neutral conductor:

- Device is powered via the phase conductor and the connected load and therefore works in the leading edge phase control or trailing edge phase control principle
- Automatic or manual setting of the operating mode suitable for the load
- Display of the set operating mode by means of LED

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50/60 Hz
Stand-by power:	approx. 0.25 W
Power loss:	approx. 4 W
Ambient temperature:	-5 ... +45 °C
Connected load at 25 °C	
Incandescent lamps:	20 ... 400 W
HV halogen lamps:	20 ... 400 W
Electronic transformers:	20 ... 400 W
Electronic transformers with LV LED:	20 ... 100 W
Inductive transformers:	20 ... 400 VA
Inductive transformers with LV LED:	20 ... 100 VA
HV LED lamps:	typical 3 ... 100 W
Compact fluorescent lamps:	typical 3 ... 100 W
When operating with neutral conductor or without neutral conductor in operating mode LED trailing edge phase control:	
Connection power for HV LED lamps typ. 3 ... 200 W, electronic transformers with LV LED typ. 20 ... 200 W.	
Ohmic-capacitive:	20 ... 400 W
Capacitive-inductive:	not permitted
Ohmic-inductive:	20 ... 400 VA
Ohmic and HV LED:	typical 3 ... 100 W
Ohmic and CFL:	typical 3 ... 100 W
Operation without neutral conductor in operating mode R,L,C,LED :	
Ohmic-inductive mixed load: maximum 50 % proportion of ohmic load.	
Otherwise incorrect calibration of the dimmer may result.	
Operation without neutral conductor: Minimum load 50 W.	
Does not apply to loads with HV LED and compact fluorescent lamps.	
When using LED lamps that are not dimmable the neutral conductor must be connected.	
Connection:	screw terminals
single wire:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded without ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded with ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 1.5 mm ²
Number of satellite units	
Satellite insert 2-wire 1720 NE:	unlimited
Satellite insert 3-wire 1723 NE:	5
Push-buttons:	unlimited
Total length of extension unit cable:	max. 100 m
Total length power cable:	max. 100 m



Ref.-no.

Satellite insert 2-wire

for covers ref.-no.: .. 1700 ..

1720 NE

Intended use

- Extension unit operation of suitable inserts of the LB Management
- Operation with standard centre plate
- Installation in flush box according to EN 60670-1

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50/60 Hz
Ambient temperature:	-20 ... +45 °C
Connection:	screw terminals
single wire:	1 x 0.5 ... 4.0 mm ²
	2 x 0.5 ... 2.5 mm ²
stranded without ferrule:	1 x 0.5 ... 4.0 mm ²
	2 x 0.5 ... 2.5 mm ²
stranded with ferrule:	1 x 0.5 ... 4.0 mm ²
	2 x 0.5 ... 1.5 mm ²
Total length of extension unit cable:	max. 100 m

Satellite insert 3-wire

for covers ref.-no.: .. 1700 .., .. 1701 .., .. 1702 .., .. 1750 D .., .. 1751 BT .., .. 17180 .., .. 17280 .., .. 17181 .., .. 17281 .., DWPM 17360 ..

1723 NE

Intended use

- Extension unit operation of suitable inserts of the LB Management
- Satellite for extending the detection field of motion and presence detectors
- Central control of multiple main devices
- Operation with suitable cover of the LB Management
- Installation in flush box according to EN 60670-1
- Neutral conductor required

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50/60 Hz
Ambient temperature:	-20 ... +45 °C
Connection:	screw terminals
single wire:	1 x 0.5 ... 4.0 mm ²
	2 x 0.5 ... 2.5 mm ²
stranded without ferrule:	1 x 0.5 ... 4.0 mm ²
	2 x 0.5 ... 2.5 mm ²
stranded with ferrule:	1 x 0.5 ... 4.0 mm ²
	2 x 0.5 ... 1.5 mm ²
Total length of extension unit cable:	max. 100 m

Ref.-no.

Pulse insert

for covers ref.-no.: .. 1700 .., .. 1700 P .., .. 17180 .., .. 17280 .., .. 17181 ..,
.. 17281 .., DWPM 17360 ..

1708 IE

Intended use

- Manual or automatic control of the power unit ref.-no. 1208 REG
- Operation with suitable cover of the LB Management
- Installation in flush box according to EN 60670-1

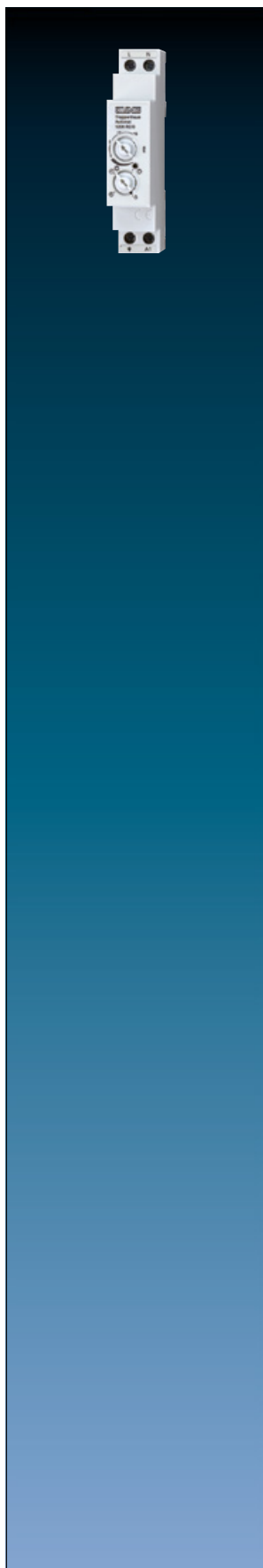
Product characteristics

- Manual switching in combination with standard centre plate ref.-no.: .. 1700 .., .. 1700 P ..
- Automatic switching in combination with motion detectors of the LB Management
- Operation in 3- or 4-conductor circuit
- Insert designed with 2-wire technology

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50 Hz
Power consumption:	0.25 ... 0.45 W
Current consumption:	approx. 2.8 mA
Ambient temperature:	-5 ... +45 °C
Pulse duration:	approx. 60 ms
Pulse interval:	approx. 8 s
Connection:	screw terminals
single wire:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded without ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded with ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 1.5 mm ²





Ref.-no.

Power unit for rail mounting

1208 REG

Intended use

- Manual or automatic switching of light in stairways
- Installation in distribution boxes on DIN rail according to EN 60715
- Switch-on via pulse insert or push-button

Product characteristics

- Run-on time adjustable
- Electronic overload protection for the control input

Four different operating modes can be set:

- Automatic function without switch-off warning
- Automatic function with switch-off warning
- Light switched ON continuously
- Light switched OFF continuously

Automatic switching of light

The pulse insert is combined with a motion detector cover. As soon as the brightness drops below a value set on the motion detector cover and motions are detected, the pulse insert sends a switch-on signal cyclically to the automatic RMD. The latter switches on the light for the set run-on time. After the run-on time has elapsed, the automatic RMD switches the light off. After switch-off, pulse inserts with motion detector covers will not detect any motions for approx. 3 seconds.

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50 Hz
Power consumption:	approx. 1 W
Ambient temperature:	+5 ... +45 °C
Shut-off delay:	approx. 10 s ... 15 min
Shut-off delay tolerance:	± 20 %
Permissible current for control input A1:	max. 40 mA
Switching voltage:	AC 250 V ~
Switching current	
Ohmic:	16 A
Switch-on current 20 ms:	max. 165 A
Connected load	
Incandescent lamps:	2300 W
HV halogen lamps:	2300 W
HV LED lamps:	400 W
Fluorescent lamps	
parallel compensated:	920 W
Fluorescent lamps	
non-compensated:	1200 VA
Fluorescent lamps lead-lag circuit:	2300 W / 140 µF
Electronic transformers:	1500 W
Inductive transformers:	1000 VA
Electronic ballast:	depending on type
Mounting width:	18 mm (1 rail unit)
Total length power cable:	max. 100 m
Total length of control cable:	max. 100 m
Connection:	screw terminals
single wire:	1 x 0.75 ... 4.0 mm ²
	2 x 0.75 ... 2.5 mm ²
stranded without ferrule:	1 x 0.75 ... 4.0 mm ²
	2 x 0.75 ... 2.5 mm ²
stranded with ferrule:	1 x 0.5 ... 2.5 mm ²

Ref.-no.

Room thermostat insert

with sensor connection
for displays ref.-no.: .. 1790 D ..

1790 RTR

Intended use

- Switching of electric underfloor heating systems and electrothermal valve drives
- Operation with room temperature controller cover of the LB Management
- Installation in flush box according to EN 60670-1

Product characteristics

- Pulse width modulation (PWM) or two-point control (on/off)
- Enables connection of a remote sensor (ref.-no.: FF 7.8)
- Input for switching to cooling mode
- Interrupts the heating process after 60 minutes (overheating protection of a heater)

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50/60 Hz
Stand-by power depending on the cover:	approx. 0.1 ... 0.5 W
Switching current 230 V AC1:	10 mA ... 16 A
Connected load:	max. 3,600 W
Connection	
single wire:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded without ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded with ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 1.5 mm ²
Ambient temperature:	-5 ... +45 °C

Displays standard for room temperature control see page 264

External temperature sensor

for room thermostat ref.-no. 1790 RTR, TR D .. 1790 ..

spare part for floor thermostat ref.-no. FTR .. 231 ..

The sensor cable can be connected using a bifilar cable of 1.5 mm² in diameter that is suitable for mains voltage. When installed in a cable duct or near high voltage current cables, a shielded cable must be used.

FF 7.8

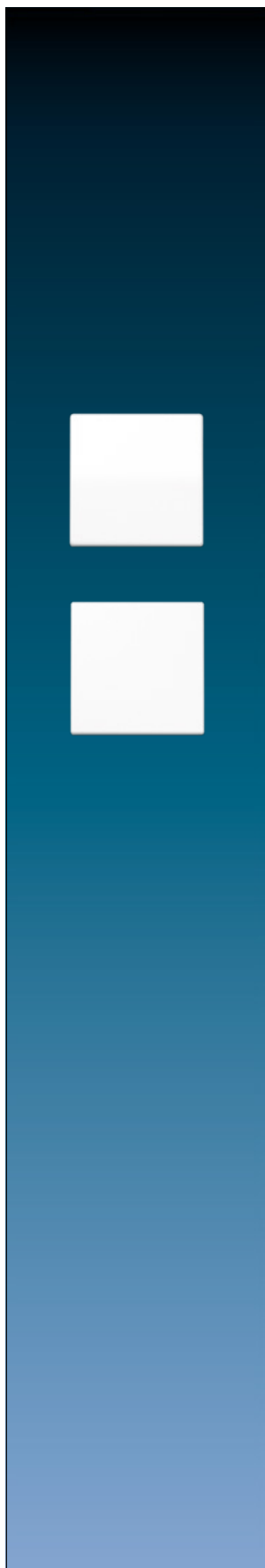
Also suitable as external temperature sensor for the following KNX devices,

ref.-no.: .. 2178 TS .., .. 2178 ORTS .., .. 5192 KRM TS D, .. 5194 KRM TS D, 2177 SV R, 23066 REGHE

Technical data

NTC sensor in plastic cap 7.8 mm Ø	
Cable length:	4 m
Ambient temperature:	-25 ... +70 °C





Ref.-no.

Standard centre plate

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE
for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE,
1710 DE, 1711 DE, 1713 DSTE, 1720 NE, 1723 NE, 1708 IE

Intended use

- Manual operation of Venetian blinds, shutters, awnings or lighting
- Operation with blinds, switch, dimmer, pulse or satellite insert of the LB Management

Product characteristics

- Activation of blinds/shutters, with blinds insert
- Switching and dimming of lighting, with switch / dimmer or pulse insert
- Ventilation position of the blind/shutter can be saved, with blinds insert
- Switch-on brightness of lighting can be saved, with dimmer insert and DALI push-button controller

for AS range

Duroplastic (scratch-proof) glossy

ivory	AS 1700
white	AS 1700 WW

for A range

Duroplastic (scratch-proof) glossy

white	A 1700 WW
black	A 1700 SW

Duroplastic lacquered

aluminium	A 1700 AL
champagne	A 1700 CH
mocha	A 1700 MO

Thermoplastic (breakproof) high-gloss

white	A 1700 BF WW
black	A 1700 BF SW

matt lacquered

matt snow white	A 1700 BF WWM
matt graphite black	A 1700 BF SWM
matt anthracite	A 1700 BF ANM

Ref.-no.

Standard centre plate

for CD range

Duroplastic (scratch-proof) glossy

ivory	CD 1700
white	CD 1700 WW
brown	CD 1700 BR
grey	CD 1700 GR
light grey	CD 1700 LG
black	CD 1700 SW

metal colours (duroplastic lacquered)

gold-bronze	CD 1700 GB
platinum	CD 1700 PT

for LS range

Duroplastic (scratch-proof) glossy

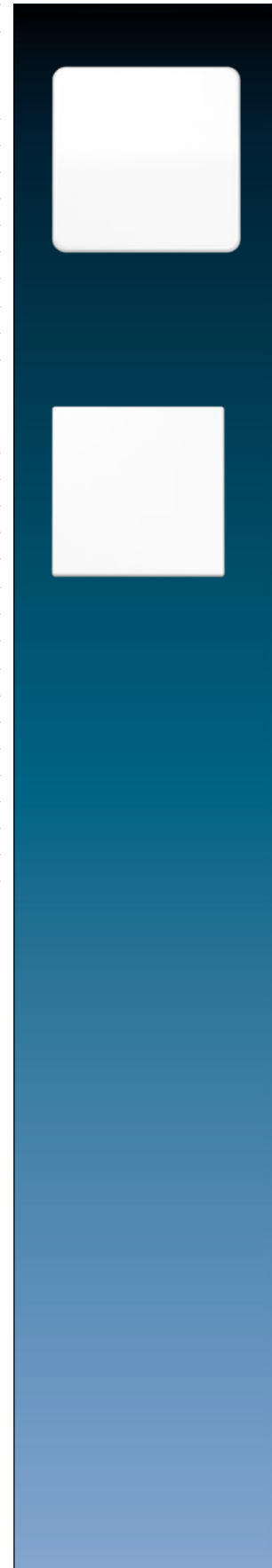
ivory	LS 1700
white	LS 1700 WW
light grey	LS 1700 LG
black	LS 1700 SW

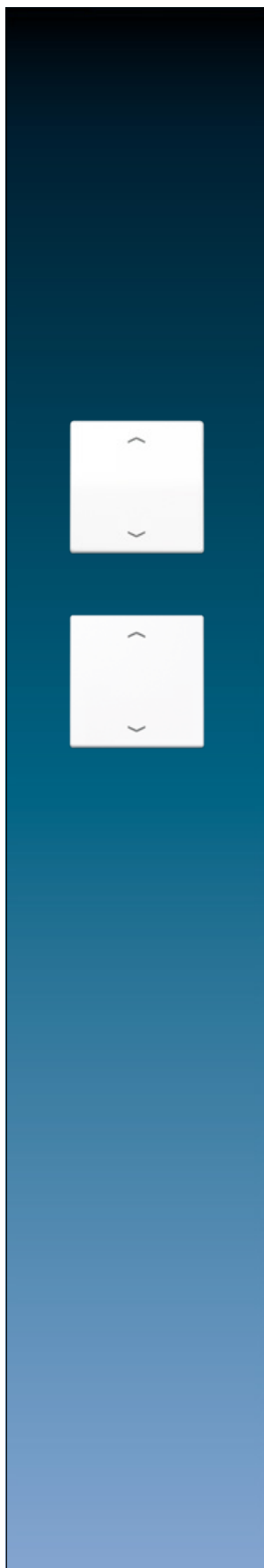
matt lacquered

matt snow white	LS 1700 WWM
matt graphite black	LS 1700 SWM

metal versions

aluminium	AL 1700
stainless steel	ES 1700
anthracite (aluminium lacquered)	AL 1700 AN
dark (aluminium lacquered)	AL 1700 D
chrome	GCR 1700
gold-coloured	GO 1700
classic brass	ME 1700 C
antique brass	ME 1700 AT





Ref.-no.

Standard centre plate "arrows"

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE
for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE,
1710 DE, 1711 DE, 1713 DSTE, 1720 NE, 1723 NE, 1708 IE

Intended use

- Manual operation of Venetian blinds, shutters, awnings or lighting
- Operation with blinds, switch, dimmer, pulse or satellite insert of the LB Management

Product characteristics

- Activation of blinds/shutters, with blinds insert
- Switching and dimming of lighting, with switch / dimmer or pulse insert
- Ventilation position of the blind/shutter can be saved, with blinds insert
- Switch-on brightness of lighting can be saved, with dimmer insert and DALI push-button controller

for AS range

Duroplastic (scratch-proof) glossy

ivory	AS 1700 P
white	AS 1700 P WW

for A range

Duroplastic (scratch-proof) glossy

white	A 1700 P WW
black	A 1700 P SW

Duroplastic lacquered

aluminium	A 1700 P AL
champagne	A 1700 P CH
mocha	A 1700 P MO

Thermoplastic (breakproof) high-gloss

white	A 1700 BFP WW
black	A 1700 BFP SW

matt lacquered

matt snow white	A 1700 BFP WWM
matt graphite black	A 1700 BFP SWM
matt anthracite	A 1700 BFP ANM

Ref.-no.

Standard centre plate "arrows"

for CD range

Duroplastic (scratch-proof) glossy

ivory	CD 1700 P
white	CD 1700 P WW
brown	CD 1700 P BR
grey	CD 1700 P GR
light grey	CD 1700 P LG
black	CD 1700 P SW

metal versions (anodized aluminium)

gold-bronze	CD 1700 P GB
platinum	CD 1700 P PT

for LS range

Duroplastic (scratch-proof) glossy

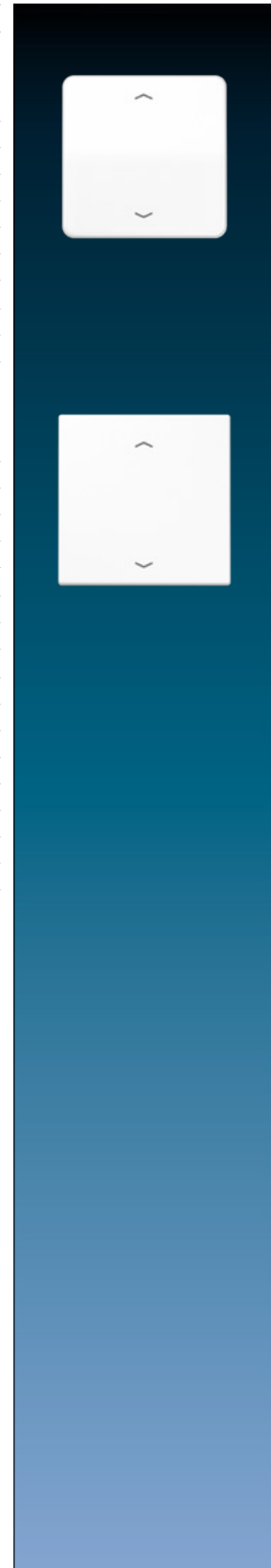
ivory	LS 1700 P
white	LS 1700 P WW
light grey	LS 1700 P LG
black	LS 1700 P SW

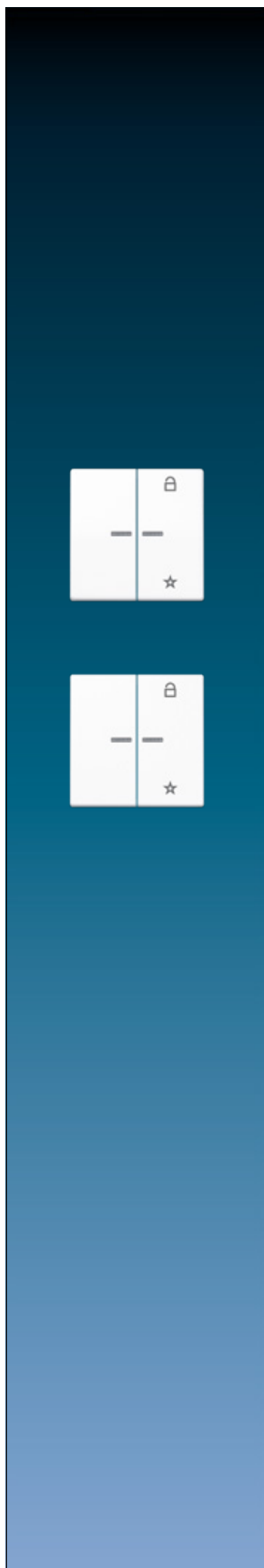
matt lacquered

matt snow white	LS 1700 P WWM
matt graphite black	LS 1700 P SWM

metal versions

aluminium	AL 1700 P
stainless steel	ES 1700 P
anthracite (aluminium lacquered)	AL 1700 P AN
dark (aluminium lacquered)	AL 1700 P D
chrome	GCR 1700 P
gold-coloured	GO 1700 P
classic brass	ME 1700 P C
antique brass	ME 1700 P AT





Ref.-no.

Universal centre plate

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE
for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE,
1710 DE, 1711 DE, 1713 DSTE, 1723 NE

Intended use

- Manual and time-controlled operation of Venetian blinds, shutters, awnings or lighting
- Operation with switch, dimmer or blinds insert or satellite insert 3-wire of the LB Management

Product characteristics

- Activation of blinds/shutters, with blinds insert
- Switching and dimming of lighting, with switch or dimmer insert
- Ventilation position of the blind/shutter can be saved, with blinds insert
- Switch-on brightness of lighting can be saved, with dimmer insert and DALI push-button controller
- Disabling function
- 2 switching times can be saved, which are repeated in a 24-hour cycle

for AS range

Duroplastic (scratch-proof) glossy

ivory	AS 1701
white	AS 1701 WW

for A range

Duroplastic (scratch-proof) glossy

white	A 1701 WW
black	A 1701 SW

Duroplastic lacquered

aluminium	A 1701 AL
champagne	A 1701 CH
mocha	A 1701 MO

Thermoplastic (breakproof) high-gloss

white	■ A 1701 BF WW
black	■ A 1701 BF SW

matt lacquered

matt snow white	A 1701 BF WWM
matt graphite black	A 1701 BF SWM
matt anthracite	A 1701 BF ANM

Ref.-no.

Universal centre plate

for CD range

Duroplastic (scratch-proof) glossy

ivory	CD 1701
white	CD 1701 WW
brown	CD 1701 BR
grey	CD 1701 GR
light grey	CD 1701 LG
black	CD 1701 SW

metal colours (duroplastic lacquered)

gold-bronze	CD 1701 GB
platinum	CD 1701 PT

for LS range



Duroplastic (scratch-proof) glossy

ivory	LS 1701
white	LS 1701 WW
light grey	LS 1701 LG
black	LS 1701 SW

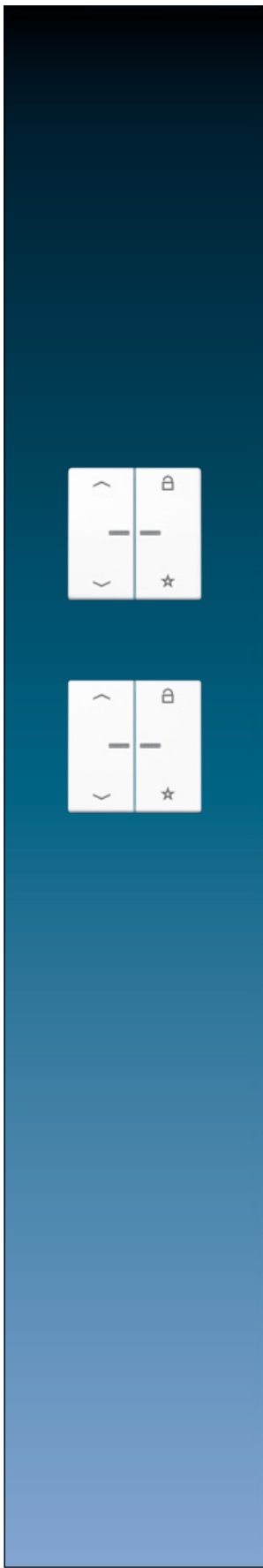
matt lacquered

matt snow white	LS 1701 WWM
matt graphite black	LS 1701 SWM

metal versions

aluminium	 AL 1701
stainless steel	 ES 1701
anthracite (aluminium lacquered)	AL 1701 AN
dark (aluminium lacquered)	AL 1701 D
chrome	GCR 1701
gold-coloured	GO 1701
classic brass	ME 1701 C
antique brass	ME 1701 AT





Ref.-no.

Universal centre plate "arrows"

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE
 for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE,
 1710 DE, 1711 DE, 1713 DSTE, 1723 NE

Intended use

- Manual and time-controlled operation of Venetian blinds, shutters, awnings or lighting
- Operation with switch, dimmer or blinds insert or satellite insert 3-wire of the LB Management

Product characteristics

- Activation of blinds/shutters, with blinds insert
- Switching and dimming of lighting, with switch or dimmer insert
- Ventilation position of the blind/shutter can be saved, with blinds insert
- Switch-on brightness of lighting can be saved, with dimmer insert and DALI push-button controller
- Disabling function
- 2 switching times can be saved, which are repeated in a 24-hour cycle

for AS range

Duroplastic (scratch-proof) glossy

ivory	AS 1701 P
white	AS 1701 P WW

for A range

Duroplastic (scratch-proof) glossy

white	A 1701 P WW
black	A 1701 P SW

Duroplastic lacquered

aluminium	A 1701 P AL
champagne	A 1701 P CH
mocha	A 1701 P MO

Thermoplastic (breakproof) high-gloss

white	A 1701 BFP WW
black	A 1701 BFP SW

matt lacquered

matt snow white	A 1701 BFP WWM
matt graphite black	A 1701 BFP SWM
matt anthracite	A 1701 BFP ANM

Ref.-no.

Universal centre plate "arrows"

for CD range

Duroplastic (scratch-proof) glossy

ivory	CD 1701 P
white	CD 1701 P WW
brown	CD 1701 P BR
grey	CD 1701 P GR
light grey	CD 1701 P LG
black	CD 1701 P SW

metal colours (duroplastic lacquered)

gold-bronze	CD 1701 P GB
platinum	CD 1701 P PT

for LS range

Duroplastic (scratch-proof) glossy

ivory	LS 1701 P
white	LS 1701 P WW
light grey	LS 1701 P LG
black	LS 1701 P SW

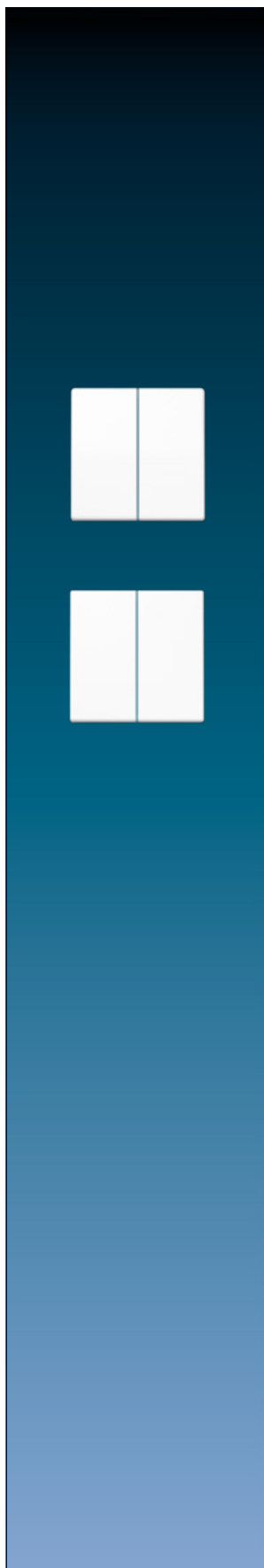
matt lacquered

matt snow white	LS 1701 P WWM
matt graphite black	LS 1701 P SWM

metal versions

aluminium	AL 1701 P
stainless steel	ES 1701 P
anthracite (aluminium lacquered)	AL 1701 P AN
dark (aluminium lacquered)	AL 1701 P D
chrome	GCR 1701 P
gold-coloured	GO 1701 P
classic brass	ME 1701 P C
antique brass	ME 1701 P AT





Ref.-no.

Standard centre plate 2-gang

for LB Management inserts "light" ref.-no.: 1702 SE, 1712 DE, 1713 DSTE, 1723 NE

Intended use

- Manual operation of lighting
- Operation with 2-channel switch or dimmer insert, DALI push-button controller or satellite insert 3-wire of the LB Management

Product characteristics

- Switching, dimming and colour temperature setting of lighting, with switch or dimmer insert
- Full control of switch and dimmer inserts, with satellite insert 3-wire
- Switch-on brightness of lighting can be saved, with dimmer insert and DALI push-button controller
- Colour temperature can be saved, with DALI push-button controller

for AS range

Duroplastic (scratch-proof) glossy

ivory	AS 1702
white	AS 1702 WW

for A range



Duroplastic (scratch-proof) glossy

white	A 1702 WW
black	A 1702 SW

Duroplastic lacquered

aluminium	A 1702 AL
champagne	A 1702 CH
mocha	A 1702 MO

Thermoplastic (breakproof) high-gloss

white	 A 1702 BF WW
black	 A 1702 BF SW

matt lacquered

matt snow white	A 1702 BF WWM
matt graphite black	A 1702 BF SWM
matt anthracite	A 1702 BF ANM

Ref.-no.

Standard centre plate 2-gang

for CD range

Duroplastic (scratch-proof) glossy

ivory	CD 1702
white	CD 1702 WW
brown	CD 1702 BR
grey	CD 1702 GR
light grey	CD 1702 LG
black	CD 1702 SW

metal colours (duroplastic lacquered)

gold-bronze	CD 1702 GB
platinum	CD 1702 PT

for LS range


Duroplastic (scratch-proof) glossy

ivory	LS 1702
white	LS 1702 WW
light grey	LS 1702 LG
black	LS 1702 SW

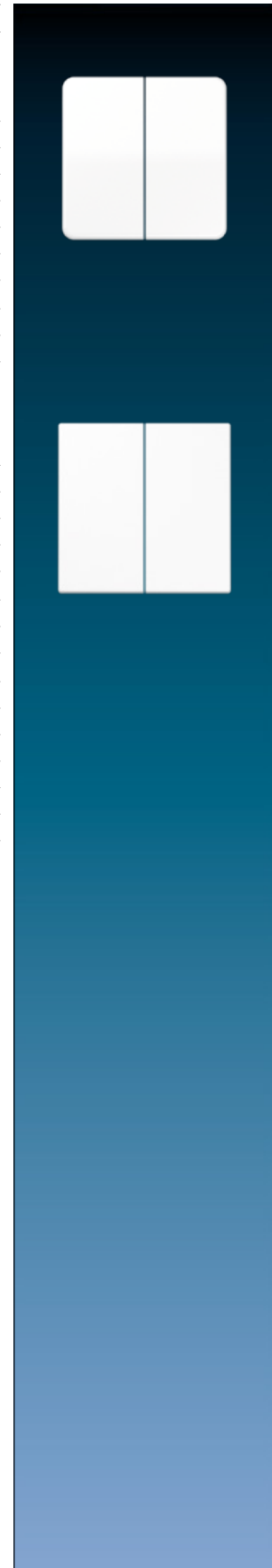
matt lacquered

matt snow white	LS 1702 WWM
matt graphite black	LS 1702 SWM

metal versions

aluminium	 AL 1702
stainless steel	 ES 1702
anthracite (aluminium lacquered)	AL 1702 AN
dark (aluminium lacquered)	AL 1702 D
classic brass	ME 1702 C
antique brass	ME 1702 AT

eNet radio centre plates, see chapter eNet, page 172



Standard timer with display

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE
 for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE,
 1710 DE, 1711 DE, 1713 DSTE, 1723 NE

Intended use

- Manual and time-controlled operation of Venetian blinds, shutters, awnings or lighting
- Operation with switch, dimmer or blinds insert or satellite insert 3-wire of the LB Management

Product characteristics

- Real glass front panel
- 6 sensor buttons
- Current time can be saved as switching time, quick programming
- Automatic summer/winter time changeover, can be switched off
- Switching at sunrise and/or before sunset (astro function) adjustable for 18 countries
- Astro time shift for sunrise and sunset
- Disabling function
- Display switches off after 2 minutes, permanent indication of the current time possible
- Activation of blinds/shutters, with blinds insert
- Programming of one up time and one down time each for the parts of the week Mo-Fr and Sa+Su
- Ventilation position of the blind/shutter can be saved, with blinds insert
- Switching and dimming of lighting, with switch or dimmer insert
- Programming of two memory areas with one switch-on and one switch-off time each for the parts of the week Mo-Fr and Sa+Su
- Switch-on brightness of lighting can be saved, with dimmer insert and DALI push-button controller

for AS and A ranges

white	A 1750 D WW
black	A 1750 D SW

for CD range

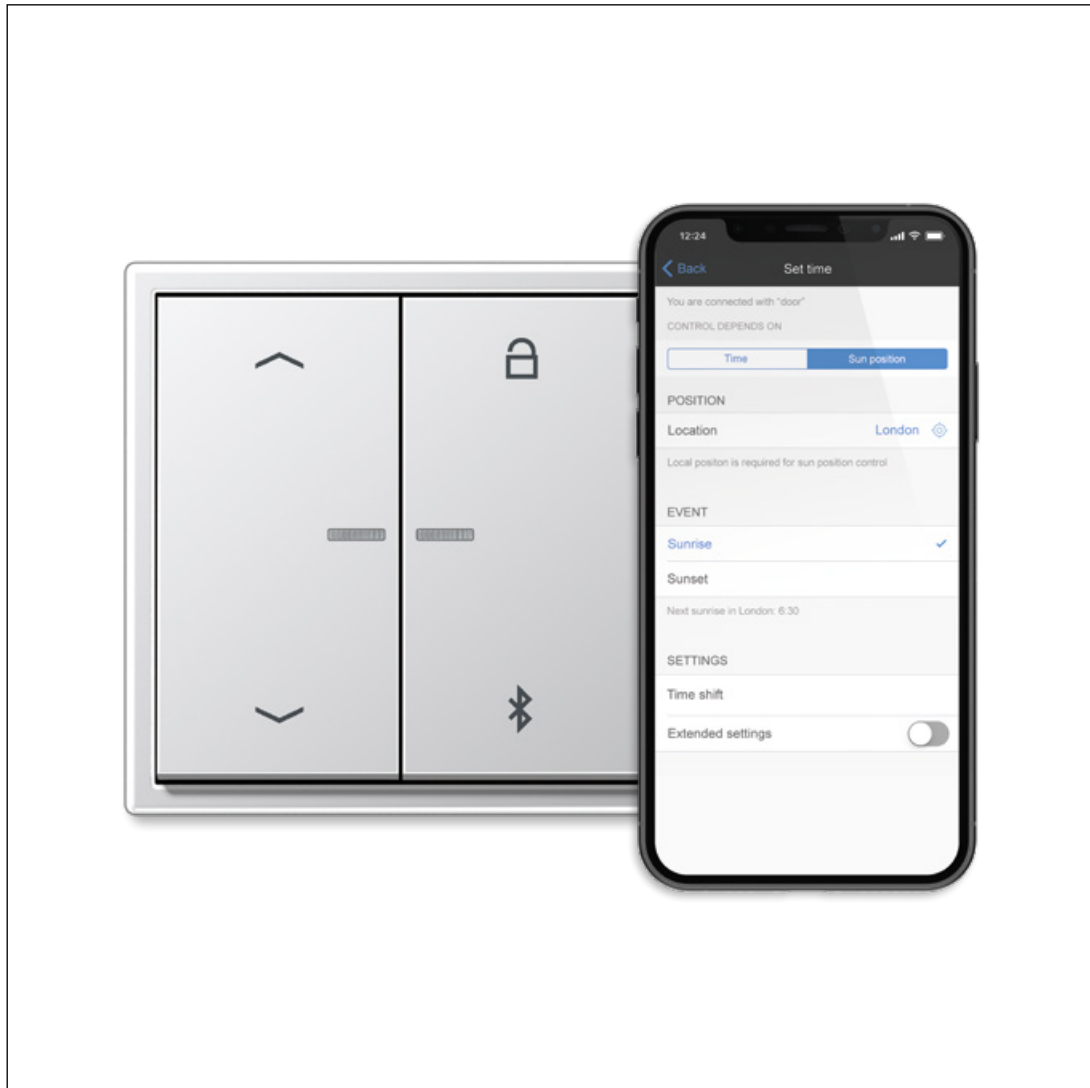
white	CD 1750 D WW
black	CD 1750 D SW

for LS range

white	LS 1750 D WW
black	LS 1750 D SW



Universal timer Bluetooth and Clever Config app



The universal timer Bluetooth is primarily impressive due to its operating concept. Sun protection and light can be operated both mechanically by pressing a button as well on the move. The configuration and control of the Bluetooth devices from LB Management, such as the timer, is particularly easy using the Clever Config app: Displays of values and states, creation of time controls and adjustment of parameters such as shut-off delay or brightness, and the control of the functions.

Universal timer Bluetooth

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE
for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE,
1710 DE, 1711 DE, 1713 DSTE, 1723 NE

Intended use

- Manual and time-controlled operation of Venetian blinds, shutters, awnings, lighting or fans
- Operation and programming with smartphone in combination with Clever Config App via Bluetooth
- Operation with switch, dimmer or blinds insert or satellite insert 3-wire of the LB Management

Product characteristics

Functions directly via cover

- Operation of blinds/shutters and lighting
- Activating / deactivating the disabling function
- Activating / deactivating automatic operation
- Running time and ventilation position of the blind/shutter can be saved
- Switch-on brightness or switch on to last brightness (with dimming insert) can be saved
- Night mode

Functions via Clever Config App

- Operation of blinds/shutters and lighting with status feedback
- Display of current blind/shutter position, dimming position or switching state
- Programming of up to 40 individual switching times
- Blind and slat positions or switching and dimming values can be saved for each switching time
- Possible to copy switching times to other universal timers Bluetooth
- Switching at sunrise and/or before sunset (astro function)
- Astro time by means of geolocation
- Astro time shift can be set for each switching time
- Automatic summer/winter time changeover, can be switched off
- Random function
- Automatic date and time update when connecting with smartphone
- Code request for protection for time programs and configuration possible
- Save a ventilation position, blind/shutter running time, slat change-over time and change-over time for direction change
- Switch to inverse operation for Venetian blind inserts possible
- Maximum brightness and minimum brightness for dimming insert can be set
- Sun protection and twilight function possible via optional brightness / temperature sensor
ref.-no.: 1792 HT BT

Technical data

Ambient temperature:	-5 ... +45 °C
Storage/transport temperature:	-20 ... +70 °C
Accuracy per month:	± 10 s
The time is updated with every connection to the app.	
Power reserve:	approx. 4 h
Radio frequency:	2.402 ... 2.480 GHz
Transmitting power:	max. 2.5 mW (class 2)
Transmission range:	typical 10 m

Ref.-no.

Universal timer Bluetooth

for AS range

Duroplastic (scratch-proof) glossy

ivory	AS 1751 BT
white	AS 1751 BT WW

for A range


Duroplastic (scratch-proof) glossy

white	A 1751 BT WW
black	A 1751 BT SW

Duroplastic lacquered

aluminium	 A 1751 BT AL
champagne	A 1751 BT CH
mocha	A 1751 BT MO

Thermoplastic (breakproof) high-gloss

white	 A 1751 BFBT WW
black	 A 1751 BFBT SW

matt lacquered

matt snow white	A 1751 BFBT WWM
matt graphite black	A 1751 BFBT SWM
matt anthracite	A 1751 BFBT ANM

for CD range

Duroplastic (scratch-proof) glossy

ivory	CD 1751 BT
white	CD 1751 BT WW
brown	CD 1751 BT BR
grey	CD 1751 BT GR
light grey	CD 1751 BT LG
black	CD 1751 BT SW

metal colours (duroplastic lacquered)

gold-bronze	CD 1751 BT GB
platinum	CD 1751 BT PT

for LS range



Duroplastic (scratch-proof) glossy

ivory	LS 1751 BT
white	LS 1751 BT WW
light grey	LS 1751 BT LG
black	LS 1751 BT SW

matt lacquered

matt snow white	LS 1751 BT WWM
matt graphite black	LS 1751 BT SWM

metal versions

aluminium	 AL 1751 BT
stainless steel	 ES 1751 BT
anthracite (aluminium lacquered)	AL 1751 BT AN
dark (aluminium lacquered)	AL 1751 BT D
chrome	GCR 1751 BT
gold-coloured	GO 1751 BT
classic brass	ME 1751 BT C
antique brass	ME 1751 BT AT



Universal timer Bluetooth "arrows"

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE

for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE,
1710 DE, 1711 DE, 1713 DSTE, 1723 NE

Intended use

- Manual and time-controlled operation of Venetian blinds, shutters, awnings, lighting or fans
- Operation and programming with smartphone in combination with Clever Config App via Bluetooth
- Operation with switch, dimmer or blinds insert or satellite insert 3-wire of the LB Management

Product characteristics

Functions directly via cover

- Operation of blinds/shutters and lighting
- Activating / deactivating the disabling function
- Activating / deactivating automatic operation
- Running time and ventilation position of the blind/shutter can be saved
- Switch-on brightness or switch on to last brightness (with dimming insert) can be saved
- Night mode

Functions via Clever Config App

- Operation of blinds/shutters and lighting with status feedback
- Display of current blind/shutter position, dimming position or switching state
- Programming of up to 40 individual switching times
- Blind and slat positions or switching and dimming values can be saved for each switching time
- Possible to copy switching times to other universal timers Bluetooth
- Switching at sunrise and/or before sunset (astro function)
- Astro time by means of geolocation
- Astro time shift can be set for each switching time
- Automatic summer/winter time changeover, can be switched off
- Random function
- Automatic date and time update when connecting with smartphone
- Code request for protection for time programs and configuration possible
- Save a ventilation position, blind/shutter running time, slat change-over time and change-over time for direction change
- Switch to inverse operation for Venetian blind inserts possible
- Maximum brightness and minimum brightness for dimming insert can be set
- Sun protection and twilight function possible via optional brightness / temperature sensor
ref.-no.: 1792 HT BT

Technical data

Ambient temperature:	-5 ... +45 °C
Storage/transport temperature:	-20 ... +70 °C
Accuracy per month:	± 10 s
The time is updated with every connection to the app.	
Power reserve:	approx. 4 h
Radio frequency:	2.402 ... 2.480 GHz
Transmitting power:	max. 2.5 mW (class 2)
Transmission range:	typical 10 m

Ref.-no.

Universal timer Bluetooth "arrows"

for AS range

Duroplastic (scratch-proof) glossy

ivory	AS 1751 PBT
white	AS 1751 PBT WW

for A range

Duroplastic (scratch-proof) glossy

white	A 1751 PBT WW
black	A 1751 PBT SW

Duroplastic lacquered

aluminium	A 1751 PBT AL
champagne	A 1751 PBT CH
mocha	A 1751 PBT MO

Thermoplastic (breakproof) high-gloss

white	A 1751 BFPBT WW
black	A 1751 BFPBT SW

matt lacquered

matt snow white	A 1751 BFPBT WWM
matt graphite black	A 1751 BFPBT SWM
matt anthracite	A 1751 BFPBT ANM

for CD range

Duroplastic (scratch-proof) glossy

ivory	CD 1751 PBT
white	CD 1751 PBT WW
brown	CD 1751 PBT BR
grey	CD 1751 PBT GR
light grey	CD 1751 PBT LG
black	CD 1751 PBT SW

metal colours (duroplastic lacquered)

gold-bronze	CD 1751 PBT GB
platinum	CD 1751 PBT PT

for LS range

Duroplastic (scratch-proof) glossy

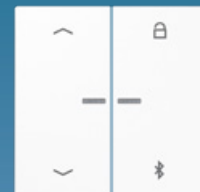
ivory	LS 1751 PBT
white	LS 1751 PBT WW
light grey	LS 1751 PBT LG
black	LS 1751 PBT SW

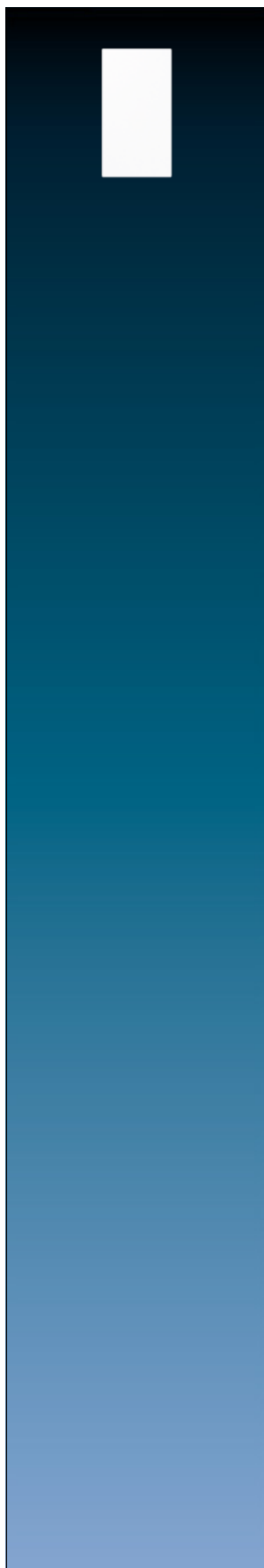
matt lacquered

matt snow white	LS 1751 PBT WWM
matt graphite black	LS 1751 PBT SWM

metal versions

aluminium	AL 1751 PBT
stainless steel	ES 1751 PBT
anthracite (aluminium lacquered)	AL 1751 PBT AN
dark (aluminium lacquered)	AL 1751 PBT D
chrome	GCR 1751 PBT
gold-coloured	GO 1751 PBT
classic brass	ME 1751 PBT C
antique brass	ME 1751 PBT AT





Ref.-no.

Brightness / temperature sensor Bluetooth

1792 HT BT

Intended use

- Sensor for detection of brightness and temperature
- Operation with universal timer Bluetooth of the LB Management
- Adhesive fixing in indoor areas on window panes, walls or furniture

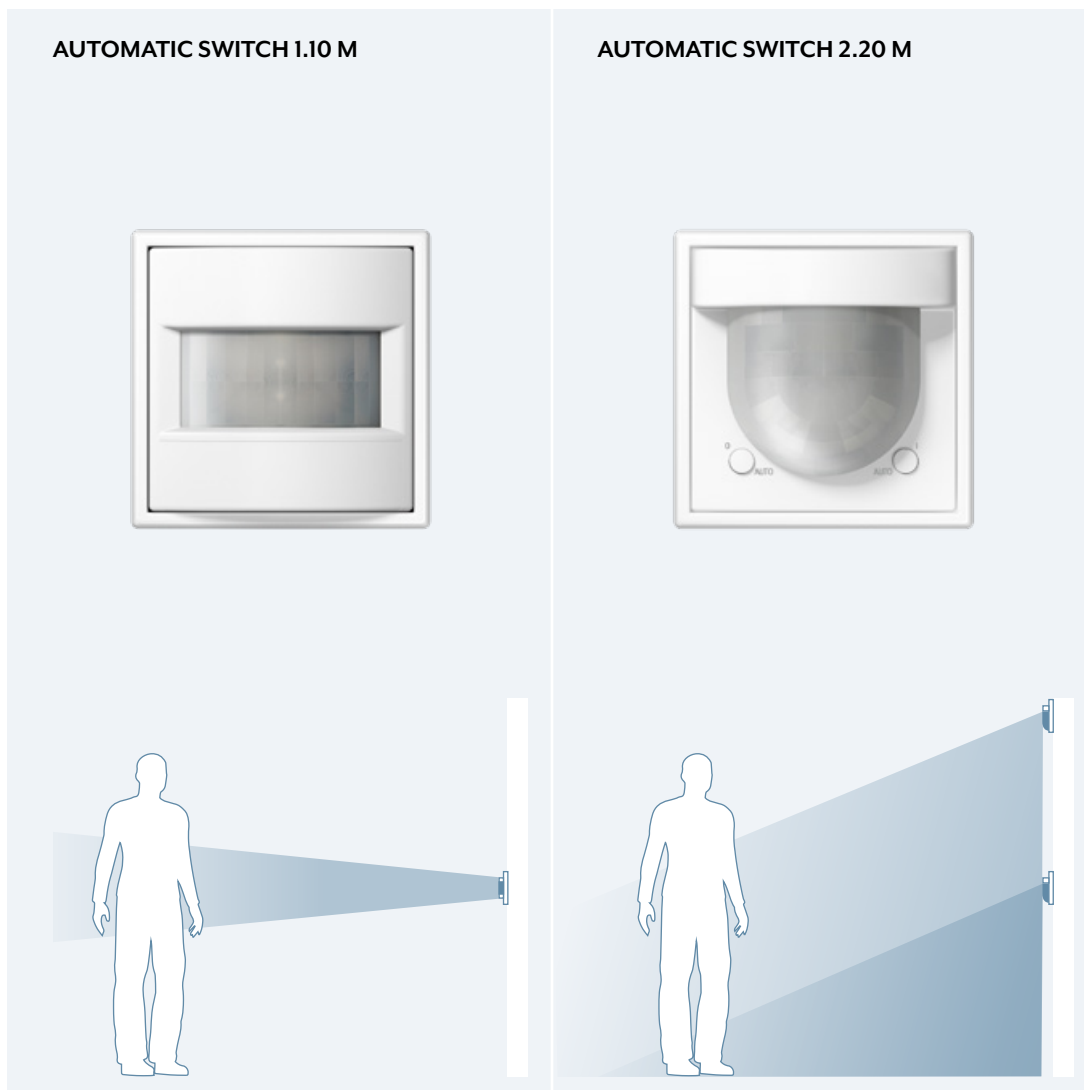
Product characteristics

- Brightness and temperature measurement takes place once per minute
- Transmits the current brightness and temperature value every 5 minutes
- Transmits the brightness value if the brightness changes by more than 10 % of the last transmitted value
- Transmits the current temperature value if the temperature changes by more than 0.2 K
- Extended functions for Timer Bluetooth: sun protection function, dusk and dawn
- Indicates low battery level
- Battery-powered device
- Commissioning with Clever Config App

Technical data

Rated voltage:	DC 3 V
Battery type:	1 x lithium CR 2450 (included)
Brightness measurement:	5 ... 80,000 lx
Temperature measurement:	-5 ... +55 °C
Ambient temperature:	-5 ... +55 °C
Storage/transport temperature:	-20 ... +70 °C
Dimensions (L x W x H):	56 x 32 x 13 mm
Radio frequency:	2.402 ... 2.480 GHz
Transmitting power:	max. 2.5 mW (class 2)
Transmission range:	typical 10 m

The automatic switches



The 180° detection range of the automatic switches is monitored by two PIR sensors that can be used individually or together. In the function as movement detector, they are ideal to use in corridors and passages. The 2.20 m version can be used very well in offices or recreation rooms. The settings in the universal designs are conveniently made using the CleverConfig app.

Standard automatic switch 1.1 m

for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

Intended use

- Automatic switching of lighting depending on the thermal movement and ambient brightness
- Operation with flush-mounted insert for switching or dimming or satellite insert 3-wire of the LB Management
- Wall installation on flush-mounted insert

Product characteristics

- Extension of the detection area in combination with 3-wire satellite insert
- Operation with 2-wire or 3-wire satellite insert, rotary satellite insert or push-button
- Brightness threshold adjustable
- Sensitivity selectable
- Fixed run-on time
- Switch on with last saved brightness or saved switch-on brightness, with dimming insert
- Switch-on brightness can be saved permanently via satellite unit, with dimmer insert
- Dimming light via satellite unit, with dimmer insert
- Screen for limiting the detection area

Technical data

Ambient temperature:	-20 ... +45 °C
Storage/transport temperature:	-25 ... +70 °C
Brightness setting:	approx. 5 ... 1,000 lx (and daytime operation)
Sensitivity:	25, 50, 75, 100 %
Shut-off delay:	approx. 2 min
Mounting height:	1.10 m
Detection angle:	180°
Detection range	
Sensitivity 25 %:	max. 8 m
Sensitivity 50 %:	max. 13 m
Sensitivity 75 %:	max. 26 m
Sensitivity 100 %:	max. 32 m

Ref.-no.

Standard automatic switch 1.1 m

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	A 17180
white	A 17180 WW
black	A 17180 SW

Thermoplastic (breakproof) lacquered

aluminium	A 17180 AL
champagne	A 17180 CH
mocha	A 17180 MO

matt lacquered

matt snow white	A 17180 WWM
matt graphite black	A 17180 SWM
matt anthracite	A 17180 ANM

for CD range

Thermoplastic (breakproof) high-gloss

ivory	CD 17180
white	CD 17180 WW
brown	CD 17180 BR
grey	CD 17180 GR
light grey	CD 17180 LG
black	CD 17180 SW

metal colours (thermoplastic lacquered)

gold-bronze	CD 17180 GB
platinum	CD 17180 PT

for LS range

Thermoplastic (breakproof) high-gloss

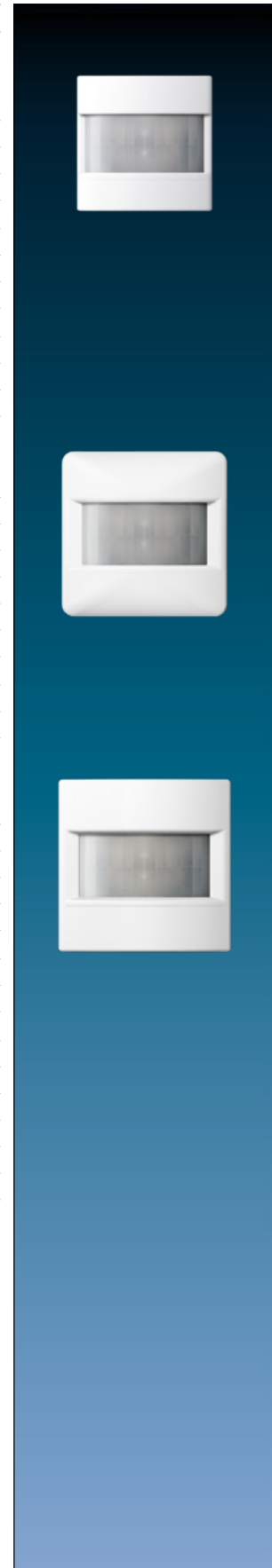
ivory	LS 17180
white	LS 17180 WW
light grey	LS 17180 LG
black	LS 17180 SW

matt lacquered

matt snow white	LS 17180 WWM
matt graphite black	LS 17180 SWM

metal colours (thermoplastic lacquered)

aluminium (lacquered)	AL 17180
stainless steel (lacquered)	ES 17180
anthracite (lacquered)	AL 17180 AN
dark (lacquered)	AL 17180 D
classic brass (lacquered)	ME 17180 C
antique brass (lacquered)	ME 17180 AT



Standard automatic switch 1.1 m

for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

IP 44 suitable only for indoor installation

Intended use

- Automatic switching of lighting depending on the thermal movement and ambient brightness
- Operation with flush-mounted insert for switching or dimming or satellite insert 3-wire of the LB Management
- Wall installation on flush-mounted insert

Product characteristics

- Extension of the detection area in combination with 3-wire satellite insert
- Operation with 2-wire or 3-wire satellite insert, rotary satellite insert or push-button
- Brightness threshold adjustable
- Sensitivity selectable
- Fixed run-on time
- Switch on with last saved brightness or saved switch-on brightness, with dimming insert
- Switch-on brightness can be saved permanently via satellite unit, with dimmer insert
- Dimming light via satellite unit, with dimmer insert
- Screen for limiting the detection area

Technical data

Ambient temperature:	-20 ... +45 °C
Storage/transport temperature:	-25 ... +70 °C
Brightness setting:	approx. 5 ... 1,000 lx (and daytime operation)
Sensitivity:	25, 50, 75, 100 %
Shut-off delay:	approx. 2 min
Mounting height:	1.10 m
Detection angle:	180°
Detection range	
Sensitivity 25 %:	max. 8 m
Sensitivity 50 %:	max. 13 m
Sensitivity 75 %:	max. 26 m
Sensitivity 100 %:	max. 32 m

Ref.-no.

Standard automatic switch 1.1 m

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	IP	A 17180 WU
white	IP	A 17180 WU WW
black	IP	A 17180 WU SW

Thermoplastic (breakproof) lacquered

aluminium	IP	A 17180 WU AL
champagne	IP	A 17180 WU CH
mocha	IP	A 17180 WU MO

matt lacquered

matt snow white	IP	A 17180 WU WWM
matt graphite black	IP	A 17180 WU SWM
matt anthracite	IP	A 17180 WU ANM

for CD range

Thermoplastic (breakproof) high-gloss

ivory	IP	CD 17180 WU
white	IP	CD 17180 WU WW
brown	IP	CD 17180 WU BR
grey	IP	CD 17180 WU GR
light grey	IP	CD 17180 WU LG
black	IP	CD 17180 WU SW

metal colours (thermoplastic lacquered)

gold-bronze	IP	CD 17180 WU GB
platinum	IP	CD 17180 WU PT

for LS range

Thermoplastic (breakproof) high-gloss

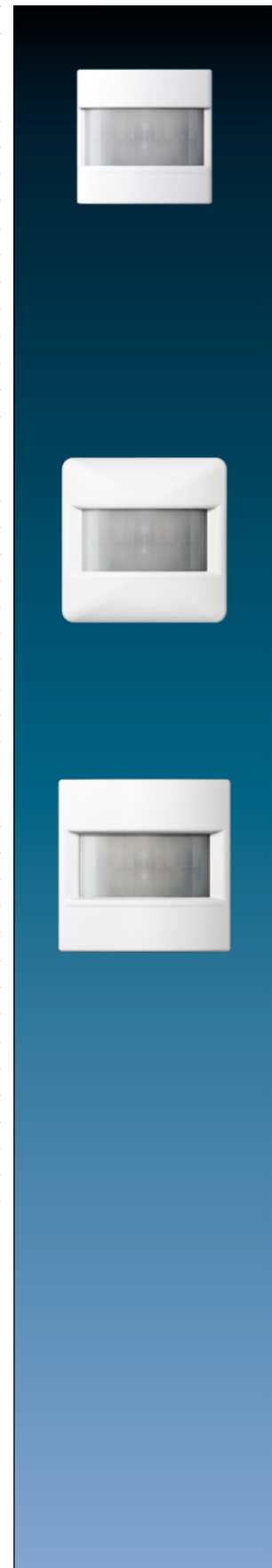
ivory	IP	LS 17180 WU
white	IP	LS 17180 WU WW
light grey	IP	LS 17180 WU LG
black	IP	LS 17180 WU SW

matt lacquered

matt snow white	IP	LS 17180 WU WWM
matt graphite black	IP	LS 17180 WU SWM

metal colours (thermoplastic lacquered)

aluminium (lacquered)	IP	AL 17180 WU
stainless steel (lacquered)	IP	ES 17180 WU
anthracite (lacquered)	IP	AL 17180 WU AN
dark (lacquered)	IP	AL 17180 WU D
classic brass (lacquered)	IP	ME 17180 WU C
antique brass (lacquered)	IP	ME 17180 WU AT



Standard automatic switch 2.2 m

for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

Protection level IP 44 is ensured with sealing kit ref.-no. AS A 50 DS and "IP 44 frame" of the respective design range.

IP 44 suitable only for indoor installation

Intended use

- Automatic switching of lighting depending on the thermal movement and ambient brightness
- Operation with flush-mounted insert for switching or dimming or satellite insert 3-wire of the LB Management
- Wall installation on flush-mounted insert

Product characteristics

- Extension of the detection area in combination with 3-wire satellite insert
- Operation with 2-wire or 3-wire satellite insert, rotary satellite insert or push-button
- Brightness threshold adjustable
- Sensitivity selectable
- Fixed run-on time
- Switch on with last saved brightness or saved switch-on brightness, with dimming insert
- Switch-on brightness can be saved permanently via satellite unit, with dimmer insert
- Dimming light via satellite unit, with dimmer insert

Technical data

Ambient temperature:	-20 ... +45 °C
Storage/transport temperature:	-25 ... +70 °C
Brightness setting:	approx. 5 ... 1,000 lx (and daytime operation)
Sensitivity:	25, 50, 75, 100 %
Shut-off delay:	approx. 2 min
Mounting height:	1.10 / 2.20 m
Detection angle:	180°
Detection range (2.2 m mounting height)	
Sensitivity 25 %:	max. 7 m
Sensitivity 50 %:	max. 11 m
Sensitivity 75 %:	max. 13 m
Sensitivity 100 %:	max. 15 m
Detection range (1.1 m mounting height)	
Sensitivity 25 %:	max. 7 m
Sensitivity 50 %:	max. 8 m
Sensitivity 75 %:	max. 9 m
Sensitivity 100 %:	max. 10 m

Ref.-no.

Standard automatic switch 2.2 m

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	IP	A 17280
white	IP	A 17280 WW
black	IP	A 17280 SW

Thermoplastic (breakproof) lacquered

aluminium	IP	A 17280 AL
champagne	IP	A 17280 CH
mocha	IP	A 17280 MO

matt lacquered

matt snow white	IP	A 17280 WWM
matt graphite black	IP	A 17280 SWM
matt anthracite	IP	A 17280 ANM

Sealing kit

for automatic switches 2.2 m of the AS / A ranges

IP AS A 50 DS

To obtain protection level IP 44

for CD range

Thermoplastic (breakproof) high-gloss

ivory	IP	CD 17280
white	IP	CD 17280 WW
grey	IP	CD 17280 GR
light grey	IP	CD 17280 LG
black	IP	CD 17280 SW

metal colours (thermoplastic lacquered)

gold-bronze	IP	CD 17280 GB
platinum	IP	CD 17280 PT

for LS range

Thermoplastic (breakproof) high-gloss

ivory	IP	LS 17280
white	IP	LS 17280 WW
light grey	IP	LS 17280 LG
black	IP	LS 17280 SW

matt lacquered

matt snow white	IP	LS 17280 WWM
matt graphite black	IP	LS 17280 SWM

metal colours (thermoplastic lacquered)

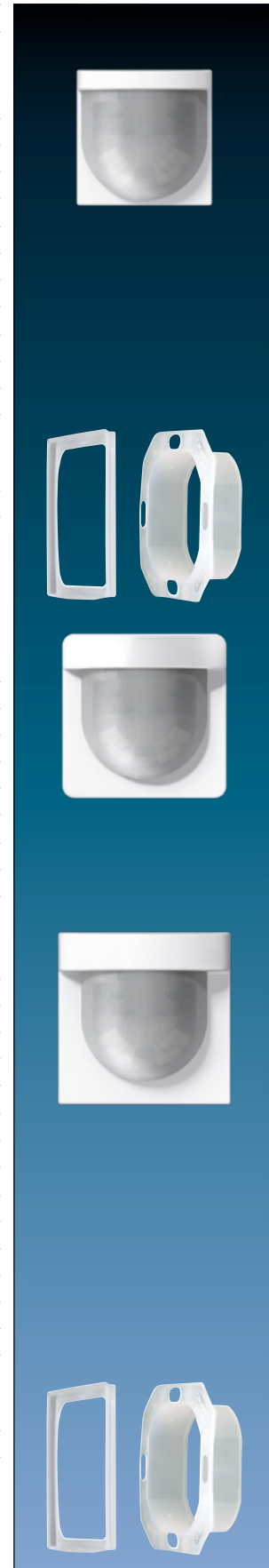
aluminium (lacquered)	IP	AL 17280
stainless steel (lacquered)	IP	ES 17280
anthracite (lacquered)	IP	AL 17280 AN
dark (lacquered)	IP	AL 17280 D
classic brass (lacquered)	IP	ME 17280 C
antique brass (lacquered)	IP	ME 17280 AT

Sealing kit

for automatic switches 2.2 m of the CD and LS ranges

IP AS CD 50 DS

To obtain protection level IP 44



Universal automatic switch 1.1 m

for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

Intended use

- Automatic switching of lighting depending on the thermal movement and ambient brightness
- Operation with flush-mounted insert for switching or dimming or satellite insert 3-wire of the LB Management
- Wall installation on flush-mounted insert

Product characteristics

Functions directly via cover

- Extension of the detection area in combination with 3-wire satellite insert
- Continuous on, Continuous off
- Operation with 2-wire or 3-wire satellite insert, rotary satellite insert or push-button
- Dimming insert can be dimmed via satellite insert
- Resetting to factory setting
- Screen for limiting the detection area

Functions via Clever Config App

- Brightness threshold adjustable
- Adjustment of the sensitivity of the PIR sensors
- Run-on time adjustable
- Continuous on, Continuous off
- On or Off for 0.5 – 5 hours
- Switch-off warning
- Dynamic run-on time
- Presence simulation
- Alarm function
- Timer function
- Operating lock
- Reduced basic sensitivity
- Automatic summer/winter time changeover
- Test operation
- Programming of up to 16 individual switching times

In combination with a switch insert

- Short-time operation

In combination with a dimmer insert

- Switch-on with last brightness or saved switch-on brightness
- Adjusting the minimum brightness
- Adjusting the maximum brightness
- Hotel function
- Night light function

Technical data

Ambient temperature:	-20 ... +45 °C
Storage/transport temperature:	-25 ... +70 °C
Brightness setting:	approx. 5 ... 500 lx (and daytime operation)
Sensitivity:	0, 25, 50, 75, 100 %
Shut-off delay:	approx. 10 s ... 60 min
Mounting height:	1.10 m
Detection angle:	180°
Detection range	
Sensitivity 25 %:	max. 8 m
Sensitivity 50 %:	max. 13 m
Sensitivity 75 %:	max. 26 m
Sensitivity 100 %:	max. 32 m
Radio frequency:	2.402 ... 2.480 GHz
Transmitting power:	max. 2.5 mW (class 2)
Transmission range:	typical 10 m

Ref.-no.

Universal automatic switch 1.1 m

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	A 17181
white	A 17181 WW
black	A 17181 SW

Thermoplastic (breakproof) lacquered

aluminium	A 17181 AL
champagne	A 17181 CH
mocha	A 17181 MO

matt lacquered

matt snow white	A 17181 WWM
matt graphite black	A 17181 SWM
matt anthracite	A 17181 ANM

for CD range

Thermoplastic (breakproof) high-gloss

ivory	CD 17181
white	CD 17181 WW
brown	CD 17181 BR
grey	CD 17181 GR
light grey	CD 17181 LG
black	CD 17181 SW

metal colours (thermoplastic lacquered)

gold-bronze	CD 17181 GB
platinum	CD 17181 PT

for LS range

Thermoplastic (breakproof) high-gloss

ivory	LS 17181
white	LS 17181 WW
light grey	LS 17181 LG
black	LS 17181 SW

matt lacquered

matt snow white	LS 17181 WWM
matt graphite black	LS 17181 SWM

metal colours (thermoplastic lacquered)

aluminium (lacquered)	AL 17181
stainless steel (lacquered)	ES 17181
anthracite (lacquered)	AL 17181 AN
dark (lacquered)	AL 17181 D
classic brass (lacquered)	ME 17181 C
antique brass (lacquered)	ME 17181 AT



Universal automatic switch 1.1 m

for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

IP 44 suitable only for indoor installation

Intended use

- Automatic switching of lighting depending on the thermal movement and ambient brightness
- Operation with flush-mounted insert for switching or dimming or satellite insert 3-wire of the LB Management
- Wall installation on flush-mounted insert

Product characteristics

Functions directly via cover

- Extension of the detection area in combination with 3-wire satellite insert
- Continuous on, Continuous off
- Operation with 2-wire or 3-wire satellite insert, rotary satellite insert or push-button
- Dimming insert can be dimmed via satellite insert
- Resetting to factory setting
- Screen for limiting the detection area

Functions via Clever Config App

- Brightness threshold adjustable
- Adjustment of the sensitivity of the PIR sensors
- Run-on time adjustable
- Continuous on, Continuous off
- On or Off for 0.5 – 5 hours
- Switch-off warning
- Dynamic run-on time
- Presence simulation
- Alarm function
- Timer function
- Operating lock
- Reduced basic sensitivity
- Automatic summer/winter time changeover
- Test operation
- Programming of up to 16 individual switching times

In combination with a switch insert

- Short-time operation

In combination with a dimmer insert

- Switch-on with last brightness or saved switch-on brightness
- Adjusting the minimum brightness
- Adjusting the maximum brightness
- Hotel function
- Night light function

Technical data

Ambient temperature:	-20 ... +45 °C
Storage/transport temperature:	-25 ... +70 °C
Brightness setting:	approx. 5 ... 500 lx (and daytime operation)
Sensitivity:	0, 25, 50, 75, 100 %
Shut-off delay:	approx. 10 s ... 60 min
Mounting height:	1.10 m
Detection angle:	180°
Detection range	
Sensitivity 25 %:	max. 8 m
Sensitivity 50 %:	max. 13 m
Sensitivity 75 %:	max. 26 m
Sensitivity 100 %:	max. 32 m
Radio frequency:	2.402 ... 2.480 GHz
Transmitting power:	max. 2.5 mW (class 2)
Transmission range:	typical 10 m

Ref.-no.

**Universal automatic switch 1.1 m
for AS and A ranges**

Thermoplastic (breakproof) high-gloss

ivory	IP	A 17181 WU
white	IP	A 17181 WU WW
black	IP	A 17181 WU SW

Thermoplastic (breakproof) lacquered

aluminium	IP	A 17181 WU AL
champagne	IP	A 17181 WU CH
mocha	IP	A 17181 WU MO

matt lacquered

matt snow white	IP	A 17181 WU WWM
matt graphite black	IP	A 17181 WU SWM
matt anthracite	IP	A 17181 WU ANM

for CD range

Thermoplastic (breakproof) high-gloss

ivory	IP	CD 17181 WU
white	IP	CD 17181 WU WW
brown	IP	CD 17181 WU BR
grey	IP	CD 17181 WU GR
light grey	IP	CD 17181 WU LG
black	IP	CD 17181 WU SW

metal colours (thermoplastic lacquered)

gold-bronze	IP	CD 17181 WU GB
platinum	IP	CD 17181 WU PT

for LS range

Thermoplastic (breakproof) high-gloss

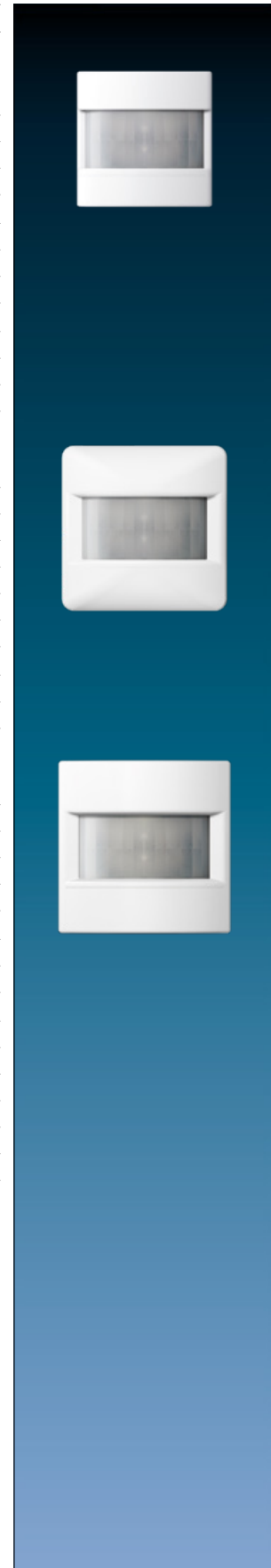
ivory	IP	LS 17181 WU
white	IP	LS 17181 WU WW
light grey	IP	LS 17181 WU LG
black	IP	LS 17181 WU SW

matt lacquered

matt snow white	IP	LS 17181 WU WWM
matt graphite black	IP	LS 17181 WU SWM

metal colours (thermoplastic lacquered)

aluminium (lacquered)	IP	AL 17181 WU
stainless steel (lacquered)	IP	ES 17181 WU
anthracite (lacquered)	IP	AL 17181 WU AN
dark (lacquered)	IP	AL 17181 WU D
classic brass (lacquered)	IP	ME 17181 WU C
antique brass (lacquered)	IP	ME 17181 WU AT



Universal automatic switch 2.2 m

for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

Protection level IP 44 is ensured with sealing kit ref.-no. AS A 50 DS and "IP 44 frame" of the respective design range.

IP 44 suitable for indoor and outdoor installation

Intended use

- Automatic switching of lighting depending on the thermal movement and ambient brightness
- Operation with flush-mounted insert for switching or dimming or satellite insert 3-wire of the LB Management
- Wall installation on flush-mounted insert

Product characteristics

Functions directly via cover

- Extension of the detection area in combination with 3-wire satellite insert
- Continuous on, Continuous off
- Operation with 2-wire or 3-wire satellite insert, rotary satellite insert or push-button
- Dimming insert can be dimmed via satellite insert
- Resetting to factory setting

Functions via Clever Config App

- Brightness threshold adjustable
- Adjustment of the sensitivity of the PIR sensors
- Run-on time adjustable
- Continuous on, Continuous off
- On or Off for 0.5 – 5 hours
- Switch-off warning
- Dynamic run-on time
- Presence simulation
- Alarm function
- Timer function
- Operating lock
- Reduced basic sensitivity
- Automatic summer/winter time changeover
- Test operation
- Programming of up to 16 individual switching times

In combination with a switch insert

- Short-time operation

In combination with a dimmer insert

- Switch-on with last brightness or saved switch-on brightness
- Adjusting the minimum brightness
- Adjusting the maximum brightness
- Hotel function
- Night light function

Technical data

Ambient temperature:	-20 ... +45 °C		
Storage/transport temperature:	-25 ... +70 °C		
Brightness setting:	approx. 5 ... 500 lx (and daytime operation)		
Sensitivity:	0, 25, 50, 75, 100 %		
Shut-off delay:	approx. 10 s ... 60 min		
Mounting height:	1.10 / 2.20 m		
Detection angle:	180°		
Detection range (2.2 m mounting height)		Detection range (1.1 m mounting height)	
Sensitivity 25 %:	max. 7 m	Sensitivity 25 %:	max. 7 m
Sensitivity 50 %:	max. 11 m	Sensitivity 50 %:	max. 8 m
Sensitivity 75 %:	max. 13 m	Sensitivity 75 %:	max. 9 m
Sensitivity 100 %:	max. 15 m	Sensitivity 100 %:	max. 10 m
Radio frequency:	2.402 ... 2.480 GHz		
Transmitting power:	max. 2.5 mW (class 2)		
Transmission range:	typical 10 m		

Ref.-no.

Universal automatic switch 2.2 m for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	IP	A 17281
white	IP	A 17281 WW
black	IP	A 17281 SW

Thermoplastic (breakproof) lacquered

aluminium	IP	A 17281 AL
champagne	IP	A 17281 CH
mocha	IP	A 17281 MO

matt lacquered

matt snow white	IP	A 17281 WWM
matt graphite black	IP	A 17281 SWM
matt anthracite	IP	A 17281 ANM

Sealing kit

for automatic switches 2.2 m of the AS / A ranges

IP AS A 50 DS

To obtain protection level IP 44

for CD range

Thermoplastic (breakproof) high-gloss

ivory	IP	CD 17281
white	IP	CD 17281 WW
grey	IP	CD 17281 GR
light grey	IP	CD 17281 LG
black	IP	CD 17281 SW

metal colours (thermoplastic lacquered)

gold-bronze	IP	CD 17281 GB
platinum	IP	CD 17281 PT

for LS range

Thermoplastic (breakproof) high-gloss

ivory	IP	LS 17281
white	IP	LS 17281 WW
light grey	IP	LS 17281 LG
black	IP	LS 17281 SW

matt lacquered

matt snow white	IP	LS 17281 WWM
matt graphite black	IP	LS 17281 SWM

metal colours (thermoplastic lacquered)

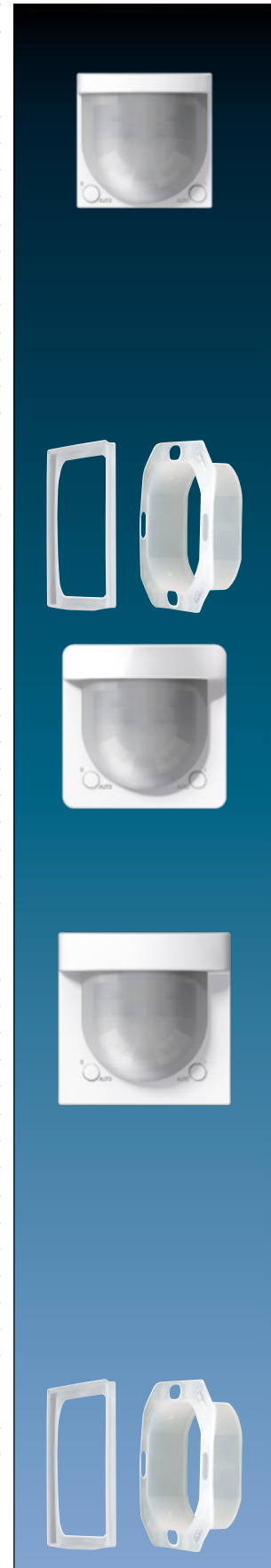
aluminium (lacquered)	IP	AL 17281
stainless steel (lacquered)	IP	ES 17281
anthracite (lacquered)	IP	AL 17281 AN
dark (lacquered)	IP	AL 17281 D
classic brass (lacquered)	IP	ME 17281 C
antique brass (lacquered)	IP	ME 17281 AT

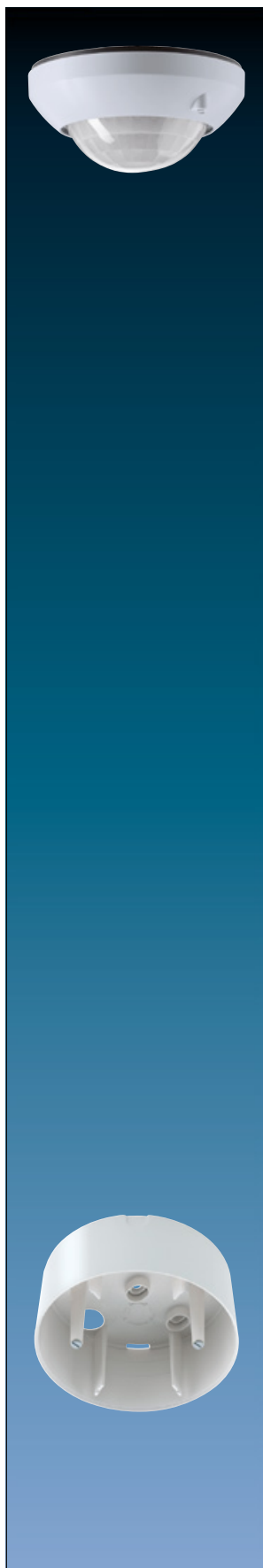
Sealing kit

for automatic switches 2.2 m of the CD and LS ranges

IP AS CD 50 DS

To obtain protection level IP 44





Ref.-no.

Motion and presence detector

for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

white

DWPM 17360 WW

aluminium (lacquered)

DWPM 17360 AL

Intended use

- Automatic switching of lighting depending on the thermal movement and ambient brightness
- Operation with flush-mounted insert for switching or dimming or satellite insert 3-wire of the LB Management
- Ceiling mounting on flush-mounted insert

- Setting the switch-on threshold
 - Separate adjustment of the sensitivity of the three PIR sensors
 - Run-on time adjustable
 - On or Off
 - On or Off for 0.5 – 5 hours
 - Switch-off warning
 - Dynamic run-on time
 - Presence simulation
 - Alarm function
 - Timer function
 - Walking test
 - Programming of up to 16 individual switching times
- In combination with a switch insert
- Pulse operation
- In combination with a dimmer insert
- Constant light control
 - Switch-on with last brightness or saved switch-on brightness
 - Hotel function
 - Night light function

Product characteristics

Functions directly via cover

- Extension of the detection area in combination with 3-wire satellite insert
- Operation with 2-wire or 3-wire satellite insert, rotary satellite insert or push-button
- Dimming light via satellite unit, with dimmer insert
- Resetting to factory setting
- Screen for limiting the detection area

Functions via Clever Config App

- Setting the device as presence detector or motion detector

Technical data

Ambient temperature:	-5 ... +45 °C
Storage/transport temperature:	-25 ... +70 °C
Dimensions (Ø x H):	103 x 66 mm
Mounting height:	3.00 m
Detection range:	Ø approx. 20 m (Mounting height 3 m)
Detection angle:	360°
Sensitivity:	0, 25, 50, 75, 100 %
Brightness threshold	
Motion detector operation:	approx. 5 ... 500 lx (and daytime operation)
Presence detector operation:	approx. 5 ... 1,000 lx (and daytime operation)
Short-time operation	
Pulse duration:	approx. 0.5 s
Pulse interval:	approx. 3 s
Bluetooth	
Radio frequency:	2.402 ... 2.480 GHz
Transmitting power:	max. 2.5 mW (class 2)
Transmission range:	typical 10 m

Surface-mounted housing

to fix power units for ceiling installation (surface-mounted) of motion and presence detectors ref.-no. DWPM 17360 WW and DWPM 17360 AL

white

PM-KAPPE

aluminium (lacquered)

PM-KAPPE AL

Technical data

Dimensions (Ø x H):	103 x 45 mm
---------------------	-------------

Ref.-no.

Motion and presence detector with integrated relay switch

including IR remote control ref.-no.: DWPM FB IR K

white

DWPM K 360 WW

aluminium (lacquered)

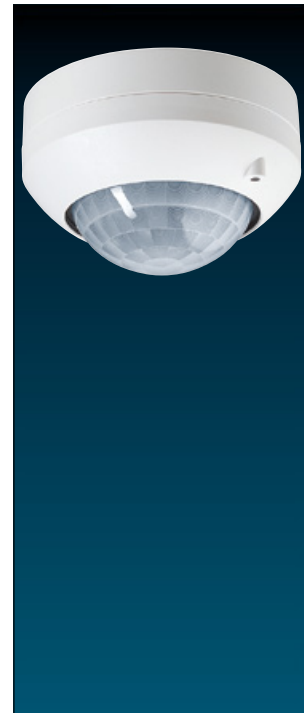
DWPM K 360 AL

Intended use

- Automatic switching of lighting depending on the thermal movement and ambient brightness
- Ceiling installation, surface mounting in dry indoor areas

Product characteristics

- 2-point light control
- Functions adjustable with IR remote control
- Restriction of the detection field by switching off individual sensors or push-on cover
- Operation with IR remote control, 2-wire extension or installation button
- Teach function for adjustment of the brightness threshold in combination with IR remote control
- Switch-off warning
- Short-time operation, e.g. to activate acoustic signal transmitters
- Display LEDs
- Presence simulation
- Function as twilight switch
- Dynamic run-on time
- Extension of the detection area through parallel switching of multiple devices



Technical data

Rated voltage:	AC 110 ... 230 V ~	Connected load at AC 110 V ~ and 35 °C	
Mains frequency:	50/60 Hz	Incandescent lamps:	1150 W
Ambient temperature:	-5 ... +45 °C	HV halogen lamps:	1000 W
Stand-by power:	max. 0.3 W	Electronic transformers:	750 W
Circuit breaker:	max. 16 A	Inductive transformers:	500 VA
Contact type:	μ	HV LED lamps:	typical 200 W
Detection angle:	360°	Compact fluorescent lamps:	typical 200 W
Dimensions (Ø x H):	103 x 66 mm	Fluorescent lamps	
Mounting height:	3.00 m	non-compensated:	460 VA
Detection range:	Ø approx. 20 m	Capacitive load:	345 VA (560 μF)
Sensitivity:	25 ... 100 %	Connection	
Brightness setting:	approx. 5 ... 2,000 lx (and daytime operation)	single wire:	1 x 1 ... 2.5 mm ²
Shut-off delay:	approx. 10 s ... 30 min	stranded with tin-plated conductor ends:	1 x 0.75 ... 1.5 mm ²
Short-time operation		Number of satellite units	
Pulse duration:	approx. 0.5 s	unlit installation buttons:	unlimited
Pulse interval:	approx. 3 s	Satellite insert 2-wire:	unlimited
Switching current at 35 °C		Total length of extension unit cable:	max. 100 m
Ohmic:	16 A (AC1)	Total length power cable:	max. 100 m
Fluorescent lamps:	4 AX	IR remote control	
Connected load at AC 230 V ~ and 35 °C		Battery type:	1 x lithium CR 2025 (included)
Incandescent lamps:	2300 W		
HV halogen lamps:	2000 W		
Electronic transformers:	1500 W		
Inductive transformers:	1000 VA		
HV LED lamps:	typical 400 W		
Compact fluorescent lamps:	typical 400 W		
Fluorescent lamps			
non-compensated:	920 VA		
Capacitive load:	690 VA (560 μF)		



Ref.-no.

IR remote control

for motion and presence detector ref.-no.: DWPM K 360 ..
(Spare part)

DWPM FB IR K

Battery operation with one included lithium button cell (CR 2025)

IR remote control (electrician)

for motion and presence detector ref.-no.: DWPM K 360 ..

DWPM FB IR I

Battery operation with one included lithium button cell (CR 2025)

Protection cage

for motion and presence detector ref.-no. DWPM 17360 ..
(Remove push-on cover when installed in surface-mounted housing.
Detection range may be reduced.)

for motion and presence detector ref.-no.: DWPM K 360 ..

white

SK 180-90 WW

varnished steel with plastic coating
dimensions (Ø x H): approx. 180 x 90 mm

Ref.-no.

Room thermostat insert

with sensor connection
for displays ref.-no.: .. 1790 D ..

1790 RTR

Intended use

- Switching of electric underfloor heating systems and electrothermal valve drives
- Operation with room temperature controller cover of the LB Management
- Installation in flush box according to EN 60670-1

Product characteristics

- Pulse width modulation (PWM) or two-point control (on/off)
- Enables connection of a remote sensor (ref.-no.: FF 7.8)
- Input for switching to cooling mode
- Interrupts the heating process after 60 minutes (overheating protection of a heater)

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50/60 Hz
Stand-by power depending on the cover:	approx. 0.1 ... 0.5 W
Switching current 230 V AC1:	10 mA ... 16 A
Connected load:	max. 3,600 W
Connection	
single wire:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded without ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded with ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 1.5 mm ²
Ambient temperature:	-5 ... +45 °C

Displays standard for room temperature control see page 264

External temperature sensor

for room thermostat ref.-no. 1790 RTR, TR D .. 1790 ..

spare part for floor thermostat ref.-no. FTR .. 231 ..

The sensor cable can be connected using a bifilar cable of 1.5 mm² in diameter that is suitable for mains voltage. When installed in a cable duct or near high voltage current cables, a shielded cable must be used.

FF 7.8

Also suitable as external temperature sensor for the following KNX devices,
ref.-no.: .. 2178 TS .., .. 2178 ORTS .., .. 5192 KRM TS D, .. 5194 KRM TS D, 2177 SV R, 23066 REGHE

Technical data

NTC sensor in plastic cap 7.8 mm Ø	
Cable length:	4 m
Ambient temperature:	-25 ... +70 °C



Display standard for room temperature control

for room thermostat insert ref.-no.: 1790 RTR

for switch inserts ref.-no.: 1701 SE, 1704 ESE

Intended use

- Manual and time-controlled regulation of the room temperature
- Operation with room thermostat insert or switch insert of the LB Management

Product characteristics

- Real glass front panel
- 6 sensor buttons
- Timer with three memory areas
 - Comfort and ECO time for Mo-Fr and Sa-Su in each memory area
- Setting a comfort, ECO, cooling and frost protection temperature
- Current time can be saved as switching time, quick programming
- Automatic summer/winter time changeover, can be switched off
- Illuminated segment display for easy reading
- Operating lock
- Optimised heating up (temperature is reached at the set time), can be switched off
- Adaptation to valves normally open or normally closed)
- Cooling mode possible
- Supports internal and external temperature sensor
- Temperature drop detection (call-up of frost protection temperature when window is opened)
- Offset adjustment (correction value for measured temperature)
- Controller output working method: pulse width modulation (PWM) or two-point
- Valve protection function (once a week opening and closing of valve, on Saturdays at 11 a.m.)
- Interrupts the heating process after 60 minutes for 5 minutes
- Heating / cooling, switch-over via insert input
- Display switches off after 2 minutes, permanent indication of set/actual temperature or current time possible

Technical data

Ambient temperature:	-5 ... +45 °C
Storage/transport temperature:	-20 ... +70 °C
Accuracy per month:	± 10 s
Power reserve:	> 4 h

for AS and A ranges

white	A 1790 D WW
black	A 1790 D SW

for CD range

white	CD 1790 D WW
black	CD 1790 D SW

for LS range

white	LS 1790 D WW
black	LS 1790 D SW



Ref.-no.

Room thermostat with display standard

consists of room thermostat insert (ref.-no.: 1790 RTR) and display (ref.-no.: .. 1790 D ..)

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50/60 Hz
Stand-by power depending on the cover:	approx. 0.1 ... 0.5 W
Switching current 230 V AC1:	10 mA ... 16 A
Connected load:	max. 3,600 W
Connection	
single wire:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded without ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded with ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 1.5 mm ²
Ambient temperature:	-5 ... +45 °C
Accuracy per month:	± 10 s
Power reserve:	> 4 h

for AS and A ranges

white	TR D A 1790 WW
black	TR D A 1790 SW

for CD range

white	TR D CD 1790 WW
black	TR D CD 1790 SW

for LS range

white	TR D LS 1790 WW
black	TR D LS 1790 SW



Dimming competence in LB Management

LED UNIVERSAL ROTARY DIMMER



in A CREATION in matt anthracite

DALI ROTARY CONTROLLER TW



in LS 990 in white

MINI UNIVERSAL DIMMER LED



UNIVERSAL DIMMER FOR RAIL MOUNTING LED

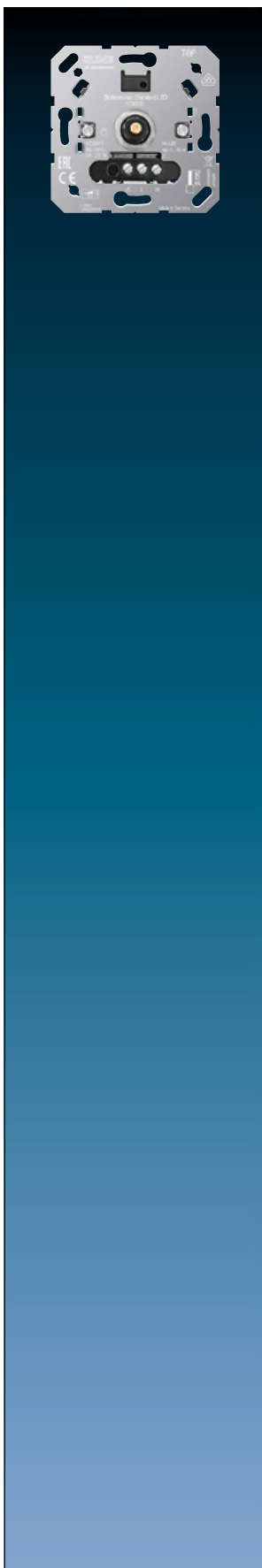


The dimmers in different designs, for flush-mounting, for installation in false ceilings or in the distribution system, can be selected according to the spatial conditions.



LED UNIVERSAL ROTARY DIMMER

With LB Management, various options are available for future-proof lighting control, including connection to DALI lighting systems.



Ref.-no.

Standard rotary dimmer LED

incremental control without end position
without satellite input

1730 DD

Intended use

- Switching and dimming of lighting
- Operation with suitable cover
- Installation in flush box according to EN 60670-1

Product characteristics

- Device works according to the leading edge phase control or trailing edge phase control principle
- Automatic setting of the dimming principle suitable for the load
- Device can be operated without neutral conductor
- Switch-on via bulb-preserving soft start
- Switch-on with last brightness or saved switch-on brightness
- Switch-on brightness can be saved permanently
- Minimum brightness can be saved permanently
- Electronic short-circuit protection with permanent switch-off after 7 seconds at the latest
- Electronic over-temperature protection
- Power extension possible by means of power boosters (ref.-no. ULZ 1755 REG)
- Optional accessory: compensation module LED, ref.-no.: KM LED 230 U

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50/60 Hz
Stand-by power:	approx. 0.35 W
Power loss:	approx. 2 W
Ambient temperature:	-5 ... +45 °C
Connected load at 25 °C	
Incandescent lamps:	20 ... 210 W
HV halogen lamps:	20 ... 210 W
Electronic transformers:	20 ... 210 W
Electronic transformers with LV LED:	typical 20 ... 60 W
Inductive transformers:	20 ... 210 VA
Inductive transformers with LV LED:	typical 20 ... 60 VA
Dimmable HV LED lamps:	typical 3 ... 60 W
Dimmable compact fluorescent lamps:	typical 3 ... 60 W
Ohmic-capacitive:	20 ... 210 W
Capacitive-inductive:	not permitted
Ohmic-inductive:	20 ... 210 VA
Ohmic and HV LED:	typical 3 ... 60 W
Ohmic and CFL:	typical 3 ... 60 W
Operation without neutral conductor:	Minimum load 50 W.
Does not apply to loads with HV LED and compact fluorescent lamps.	
Amplifiers:	see instructions for amplifier
Connection:	screw terminals
single wire:	1 x 0.5 ... 4.0 mm ²
	2 x 0.5 ... 2.5 mm ²
stranded without ferrule:	1 x 0.5 ... 4.0 mm ²
	2 x 0.5 ... 2.5 mm ²
stranded with ferrule:	1 x 0.5 ... 4.0 mm ²
	2 x 0.5 ... 1.5 mm ²
Total length power cable:	max. 100 m



Ref.-no.

Rotary dimmer universal LED

incremental control without end position
with satellite input

1731 DD

Intended use

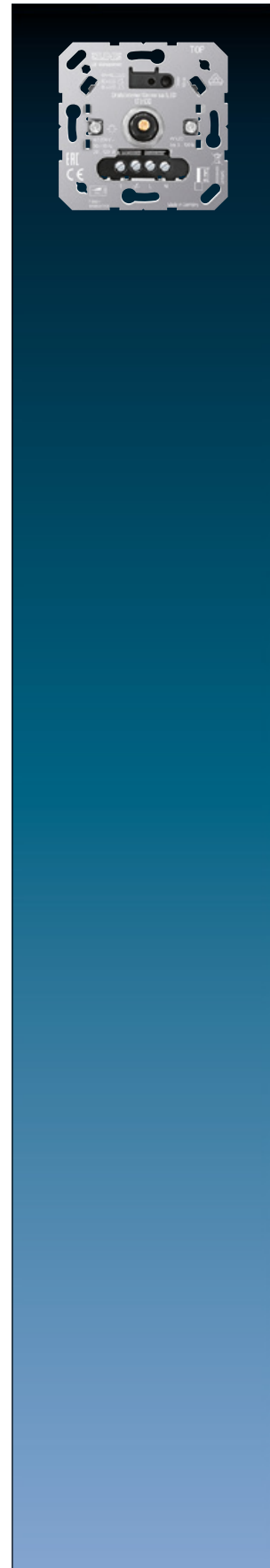
- Switching and dimming of lighting
- Operation with suitable cover
- Installation in flush box according to EN 60670-1

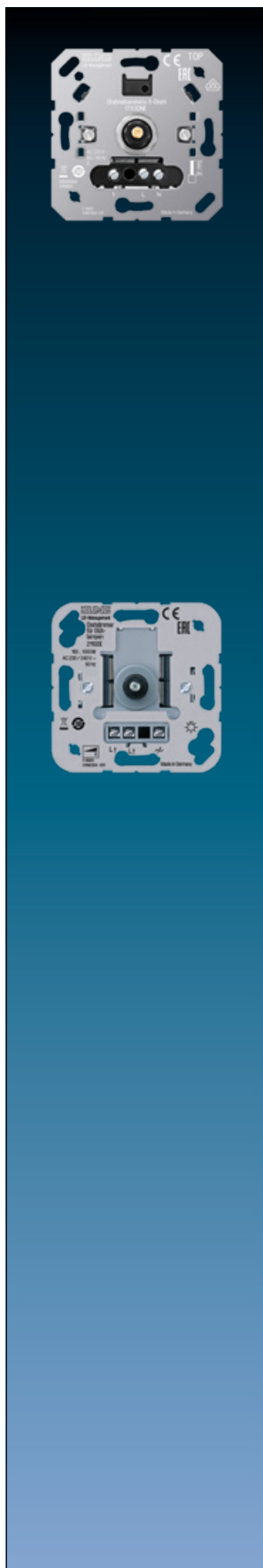
Product characteristics

- Device works according to the leading edge phase control or trailing edge phase control principle
- Automatic or manual setting of the dimming principle suitable for the load
- Display of the set operating mode by means of LED
- Device can be operated without neutral conductor
- Switch-on via bulb-preserving soft start
- Switch-on with last brightness or saved switch-on brightness
- Switch-on brightness can be saved permanently
- Minimum brightness can be saved permanently
- Connection of satellite units possible
- Electronic short-circuit protection with permanent switch-off after 7 seconds at the latest
- Electronic over-temperature protection
- Key card function
- Power extension possible by means of power boosters (ref.-no. ULZ 1755 REG)
- Optional accessory: compensation module LED, ref.-no.: KM LED 230 U

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50/60 Hz
Stand-by power:	approx. 0.35 W
Power loss:	approx. 4 W
Ambient temperature:	-5 ... +45 °C
Connected load at 25 °C	
Incandescent lamps:	20 ... 420 W
HV halogen lamps:	20 ... 420 W
Electronic transformers:	20 ... 420 W
Electronic transformers with LV LED:	typical 20 ... 100 W
Inductive transformers:	20 ... 420 VA
Inductive transformers with LV LED:	typical 20 ... 100 VA
Dimmable HV LED lamps:	typical 3 ... 100 W
Dimmable compact fluorescent lamps:	typical 3 ... 100 W
Operating mode LED trailing edge phase control: Rated power for HV LED lamps,	
typ. 3 ... 400 W, electronic transformers with LV LED typ. 20 ... 200 W.	
Ohmic-capacitive:	20 ... 420 W
Capacitive-inductive:	not permitted
Ohmic-inductive:	20 ... 420 VA
Ohmic and HV LED:	typical 3 ... 100 W
Ohmic and CFL:	typical 3 ... 100 W
Amplifiers:	see instructions for amplifier
Connection:	screw terminals
single wire:	1 x 0.5 ... 4.0 mm ²
stranded without ferrule:	2 x 0.5 ... 2.5 mm ²
stranded with ferrule:	1 x 0.5 ... 4.0 mm ²
stranded without ferrule:	2 x 0.5 ... 2.5 mm ²
stranded with ferrule:	1 x 0.5 ... 4.0 mm ²
stranded without ferrule:	2 x 0.5 ... 1.5 mm ²
Number of satellite units	
Rotary satellite insert 3-wire 1733 DNE:	10
Satellite insert 3-wire 1723 NE:	10
Satellite insert 2-wire 1720 NE:	unlimited
Push-buttons:	unlimited
Total length of extension unit cable:	max. 100 m
Total length power cable:	max. 100 m





Ref.-no.

Rotary satellite insert 3-wire

1733 DNE

Intended use

- Extension operation for dimmers ref.-no.: 1731 DD, 1711 DE, 1724 DM, UD 1755 REG
- Operation with suitable cover
- Installation in flush box according to EN 60670-1

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50/60 Hz
Stand-by power:	approx. 0.3 W
Ambient temperature:	-5 ... +45 °C
Connection:	screw terminals
single wire:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded without ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded with ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 1.5 mm ²
Total length of extension unit cable:	max. 100 m

Rotary dimmer insert 100 – 1000 W with 2-way push switch

211 GDE

- Switching and dimming incandescent lamps and HV halogen lamps
- Installation in flush box according to EN 60670-1
- Suitable for mixed operation up to the specified output

Product characteristics

- Dimming method: trailing edge phase control
- Electronic short-circuit protection with permanent switch-off after 7 seconds at the latest
- Electronic over-temperature protection
- Satellite switching possible in combination with 2-way switch
- Optional accessory: compensation module LED, ref.-no.: KM LED 230 U

Technical data

Rated voltage:	AC 230/240 V ~, 50 Hz
Ambient temperature:	-5 ... +25 °C
Connected load at 25 °C	
Incandescent lamps:	100 ... 1000 W
HV halogen lamps:	100 ... 1000 W
Reduction of load	
for every 5 °C exceeded 35 °C:	-10 %
for installation into wooden or hollow walls:	-15 %
for installation into multiple combinations:	-20 %
Connection:	screw terminals
single wire:	max. 4 mm ²



Ref.-no.

Speed regulator

incremental control without end position
with satellite input

1735 DS

Intended use

- Speed controller for regulating the speed of single-phase motors
e.g. induction motors or shaded pole motors
- Installation in flush box according to EN 60670-1
- Operation with suitable cover

Product characteristics

- Device works according to the leading edge phase control principle
- Device can be operated without neutral conductor
- Switch-on via soft start to maximum speed
- Basic speed can be saved permanently
- Connection of satellite units possible
- Electronic short-circuit protection with permanent switch-off after 100 ms
- Electronic over-temperature protection

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50/60 Hz
Stand-by power:	max. 0.5 W
Power loss:	max. 4 W
Ambient temperature:	-5 ... +45 °C
Switching current:	60 mA ... 1.8 A
Connection:	screw terminals
single wire:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded without ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded with ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 1.5 mm ²

Number of satellite units

Rotary satellite insert 3-wire	
1733 DNE:	10
Push-buttons:	unlimited
Total length of extension unit cable:	max. 100 m
Total length power cable:	max. 100 m



Electronic potentiometer, 1 – 10 V

for dimming of fluorescent lamps controlled by electronic ballasts
or electronic transformers with control voltage 1 – 10 V

with switch function

240-10

switching capacity of mains switch:

AC 230 V ~ 50/60 Hz, max. 6 A for resistive loads

Intended use

- Switching and brightness setting for lamps with operating devices with 1 – 10 V interface
- Installation in flush box according to EN 60670-1

Product characteristics

- Potentiometer with switching function for direct switching of ohmic or inductive loads
- Potentiometer with push-button function only in connection with pulse relays
- Minimum brightness can be set
- For potentiometers with a push-button function, switching via extensions is possible
- Protection of the 1 – 10 V interface in case of incorrect connection by means of integrated fine-wire fuse





Ref.-no.

DALI rotary controller TW

1740 DSTE

Intended use

- Switching and brightness setting for luminaires with DALI/DALI2 interface
- Setting of colour temperature for luminaires with DALI Device Type 8 for tunable white acc. to IEC 62386-209
- Installation in flush box according to EN 60670-1

Product characteristics

- Certified acc. to IEC 62386-101 and 103 (Single Master)
- Operation as Single Master (no switching in parallel)
- Saving of colour temperature limiting values
- Possibility of storing a basic brightness and a fixed power-on brightness.
- Powered using the DALI voltage provided by an external DALI power supply acc. to IEC 62386-101

Technical data

(external DALI power supply acc. to IEC 62386-101 required)

Rated voltage DALI:	DC 16 V (typ.)
Power consumption:	max. 2 W
Ambient temperature:	-5 ... +45 °C
Colour temperature setting:	2,000 ... 10,000 K



Power DALI rotary controller TW

1741 DSTE

Intended use

- Switching and brightness setting for luminaires with DALI/DALI2 interface
- Setting of colour temperature for luminaires with DALI Device Type 8 for tunable white acc. to IEC 62386-209
- Installation in flush box according to EN 60670-1

Product characteristics

- Certified acc. to IEC 62386-101 and 103 (Single Master)
- Operation as Single Master (no switching in parallel)
- Saving of colour temperature limiting values
- Possibility of storing a basic brightness and a fixed power-on brightness.

Technical data

Rated voltage:	AC 230 V ~, 50/60 Hz
Power consumption:	max. 2 W
Ambient temperature:	-5 ... +45 °C
Rated voltage DALI:	DC 16 V (typ.)
Output current:	max. 56 mA
Short-circuit current:	max. 61 mA
Colour temperature setting:	2,000 ... 10,000 K
Output current:	max. 56 mA
Number of DALI devices:	max. 28



Ref.-no.

DALI transformer for LV halogen lamps

D SNT 105

Intended use

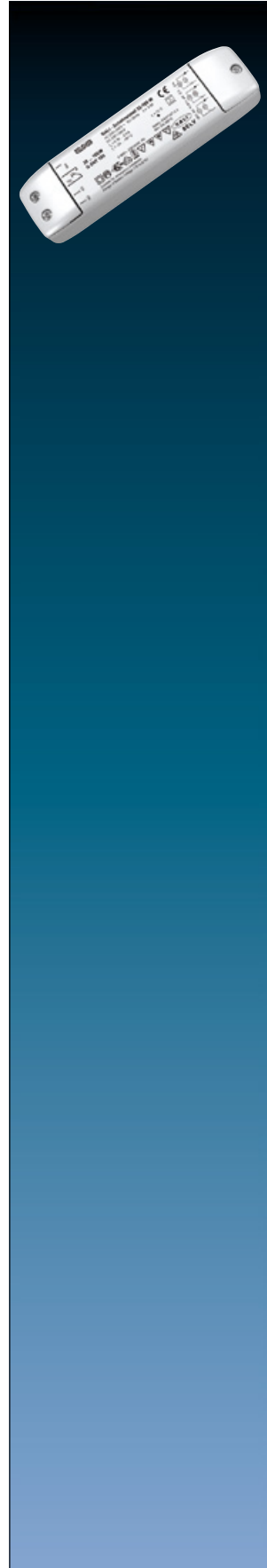
- Power supply for 12 V halogen lamps
- Switching and brightness adjustment is performed with DALI control units or push-buttons
- Installation in false ceilings or surface mounting

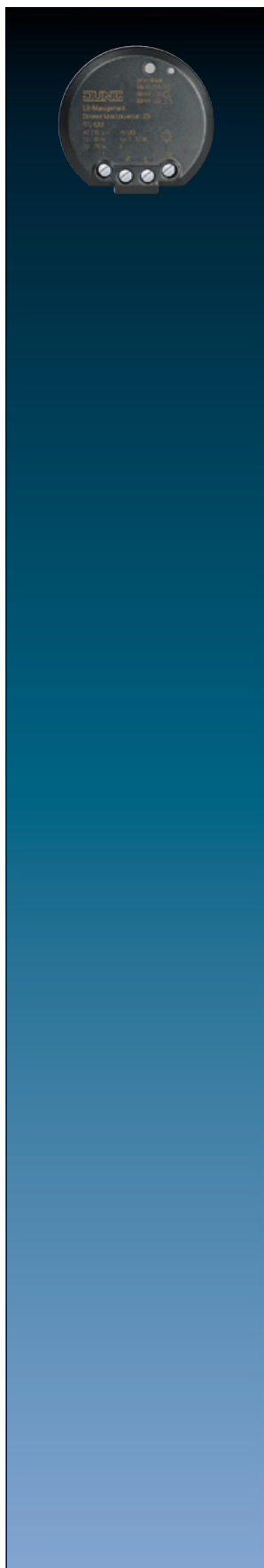
Product characteristics

- No-load protection
- Electronic short-circuit protection
- Electronic overload protection
- Electronic over-temperature protection
- Suitable for operation in systems with emergency power supply

Technical data

Rated capacity:	35 ... 105 W
Rated voltage:	AC 230/240 V ~, 50/60 Hz
Output voltage:	11.5 V eff. ~ 40 kHz
Short-circuit protection:	electronic protection without fuse
Output cable length:	max. 2 m
Dimensions:	170 x 44 x 34 mm
Ambient temperature:	max. 50 °C
Terminals:	screw terminals
primary	1 x 0.5 ... 1.5 mm ²
secondary	1 x 0.75 ... 2.5 mm ²
Approvals:	VDE





Ref.-no.

Dimmer mini universal LED

with satellite input

1724 DM

Intended use

- Switching and dimming of lighting
- Operation takes place with a 2- or 3-wire satellite insert, rotary satellite insert or push-button with make contact (NO)
- Installation in flush box according to EN 60670-1 in combination with a suitable cover
- Mounting in surface-mounted housing or mounting adapter (ref.-no. FM-EBG) for false ceilings

Product characteristics

- Device works according to the leading edge phase control or trailing edge phase control principle
- Test operation for functional test
- Automatic or manual setting of the dimming principle suitable for the load
- Display of the set operating mode by means of LED
- Device can be operated without neutral conductor
- Switch-on via bulb-preserving soft start
- Switch-on with last brightness or saved switch-on brightness
- Switch-on brightness can be saved permanently
- Minimum brightness can be saved permanently
- Electronic short-circuit protection with permanent switch-off after 7 seconds at the latest
- Electronic over-temperature protection
- Power extension possible by means of power boosters (ref.-no. ULZ 1755 REG)
- Optional accessory: compensation module LED, ref.-no.: KM LED 230 U

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50/60 Hz
Stand-by power:	approx. 0.3 W
Power loss:	approx. 2 W
Ambient temperature:	-5 ... +45 °C
Connected load at 25 °C	
Incandescent lamps:	20 ... 210 W
HV halogen lamps:	20 ... 210 W
Electronic transformers:	20 ... 210 W
Electronic transformers with LV LED:	typical 20 ... 50 W
Inductive transformers:	20 ... 210 VA
Inductive transformers with LV LED:	typical 20 ... 50 VA
Dimmable HV LED lamps:	typical 3 ... 50 W
Dimmable compact fluorescent lamps:	typical 3 ... 50 W
With setting "LED trailing edge phase control" the max. connection power for HV LED lamps and electronic transformers with LV LED doubles.	
Ohmic-capacitive:	20 ... 210 W
Capacitive-inductive:	not permitted
Ohmic-inductive:	20 ... 210 VA
Ohmic and HV LED:	typical 3 ... 50 W
Ohmic and CFL:	typical 3 ... 50 W
Amplifiers:	see instructions for amplifier
Connection:	screw terminals
single wire:	1 x 0.75 ... 2.5 mm ² 2 x 0.75 ... 1.5 mm ²
stranded without ferrule:	1 x 1.0 ... 4.0 mm ² 2 x 1.0 ... 2.5 mm ²
stranded with ferrule:	1 x 1.0 ... 2.5 mm ² 2 x 1.0 ... 1.0 mm ²
Number of satellite units	
Satellite insert 2-wire 1720 NE:	unlimited
Satellite insert 3-wire 1723 NE:	10
Rotary satellite insert 3-wire 1733 DNE:	10
unlit installation buttons:	unlimited
Total length of extension unit cable:	max. 100 m
Total length power cable:	max. 100 m
Dimensions (Ø x H):	48 x 19.5 mm



Ref.-no.

Universal dimmer LED, built-in

with satellite input

1724 DEB

Intended use

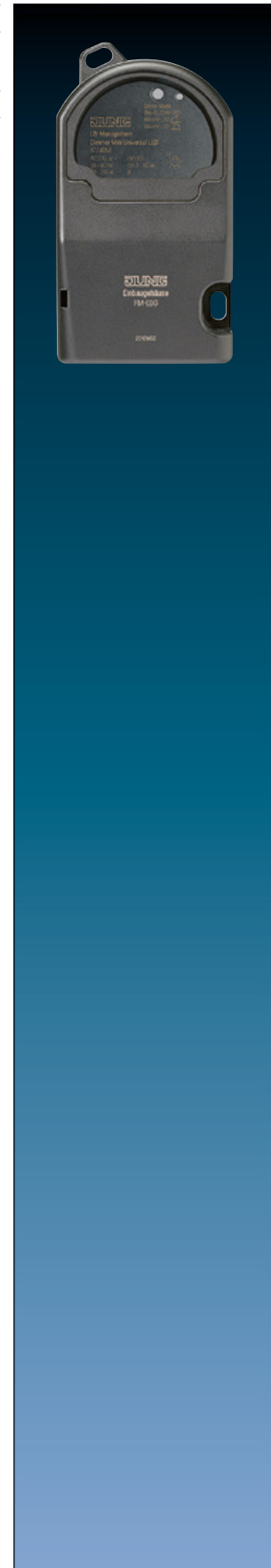
- Switching and dimming of lighting
- Operation takes place with a 2- or 3-wire satellite insert, rotary satellite insert or push-button with make contact (NO)
- Mounting in false ceilings

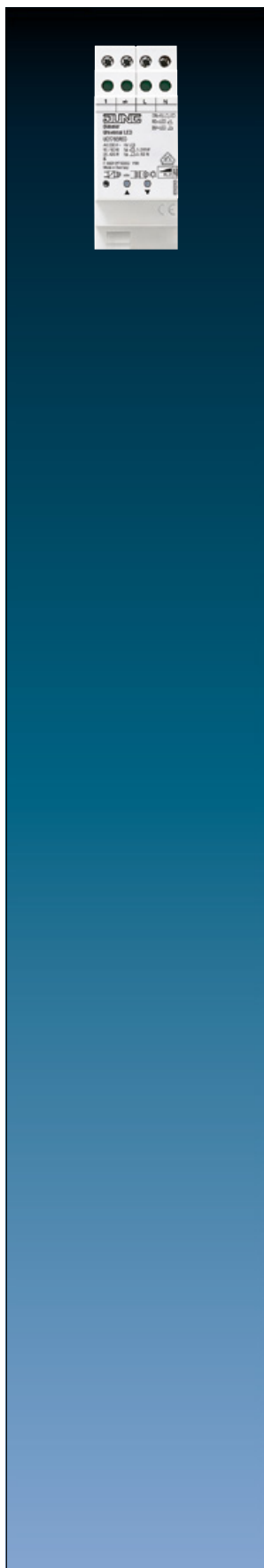
Product characteristics

- Device works according to the leading edge phase control or trailing edge phase control principle
- Test operation for functional test
- Automatic or manual setting of the dimming principle suitable for the load
- Display of the set operating mode by means of LED
- Device can be operated without neutral conductor
- Switch-on via bulb-preserving soft start
- Switch-on with last brightness or saved switch-on brightness
- Switch-on brightness can be saved permanently
- Minimum brightness can be saved permanently
- Electronic short-circuit protection with permanent switch-off after 7 seconds at the latest
- Electronic over-temperature protection
- Power extension possible by means of power boosters (ref.-no. ULZ 1755 REG)
- Optional accessory: compensation module LED, ref.-no.: KM LED 230 U

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50/60 Hz
Stand-by power:	approx. 0.3 W
Power loss:	approx. 2 W
Ambient temperature:	-5 ... +45 °C
Connected load at 25 °C	
Incandescent lamps:	20 ... 210 W
HV halogen lamps:	20 ... 210 W
Electronic transformers:	20 ... 210 W
Electronic transformers with LV LED:	typical 20 ... 50 W
Inductive transformers:	20 ... 210 VA
Inductive transformers with LV LED:	typical 20 ... 50 VA
Dimmable HV LED lamps:	typical 3 ... 50 W
Dimmable compact fluorescent lamps:	typical 3 ... 50 W
With setting "LED trailing edge phase control" the max. connection power for HV LED lamps and electronic transformers with LV LED doubles.	
Ohmic-capacitive:	20 ... 210 W
Capacitive-inductive:	not permitted
Ohmic-inductive:	20 ... 210 VA
Ohmic and HV LED:	typical 3 ... 50 W
Ohmic and CFL:	typical 3 ... 50 W
Amplifiers:	see instructions for amplifier
Connection	
Connection mode:	screw terminals
single wire:	1 x 0.75 ... 2.5 mm ²
stranded without ferrule:	2 x 0.75 ... 1.5 mm ²
stranded with ferrule:	1 x 1.0 ... 4.0 mm ²
stranded without ferrule:	2 x 1.0 ... 2.5 mm ²
stranded with ferrule:	1 x 1.0 ... 2.5 mm ²
stranded with ferrule:	2 x 1.0 ... 1.0 mm ²
Number of satellite units	
Satellite insert 2-wire 1720 NE:	unlimited
Satellite insert 3-wire 1723 NE:	10
Rotary satellite insert 3-wire 1733 DNE:	10
unlit installation buttons:	unlimited
Total length of extension unit cable:	max. 100 m
Total length power cable:	max. 100 m
Dimensions:	53 x 97 x 36 mm (W x H x D)





Ref.-no.

Universal dimmer LED

Rail mounting device, 2 rail units

1-channel

UD 1755 REG

Intended use

- Switching and dimming of lighting
- Mounting on DIN rail according to EN 60715 in distribution boxes
- Operation takes place using the buttons, 2- or 3-wire satellite insert, rotary satellite insert or push-button with make contact (NO)

Product characteristics

- Device works according to the leading edge phase control or trailing edge phase control principle
- Automatic or manual setting of the dimming principle suitable for the load
- Display of the set operating mode by means of LED
- Switch-on via bulb-preserving soft start
- Switch-on with last brightness or saved switch-on brightness
- Switch-on brightness can be saved permanently
- Minimum brightness can be saved permanently
- Electronic short-circuit protection with permanent switch-off after 7 seconds at the latest
- Electronic over-temperature protection
- Power extension possible by means of power boosters (ref.-no. ULZ 1755 REG)
- Optional accessory: compensation module LED, ref.-no.: KM LED 230 U

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50/60 Hz
Stand-by power:	approx. 0.3 W
Power loss:	approx. 3.8 W
Ambient temperature:	-5 ... +45 °C
Connected load at 25 °C	
Incandescent lamps:	20 ... 420 W
HV halogen lamps:	20 ... 420 W
Electronic transformers:	20 ... 420 W
Electronic transformers with LV LED:	20 ... 100 W
Inductive transformers:	20 ... 420 VA
Inductive transformers with LV LED:	20 ... 100 VA
Dimmable HV LED lamps:	typical 3 ... 100 W
Dimmable compact fluorescent lamps:	typical 3 ... 100 W
Operating mode LED trailing edge phase control:	Rated power for HV LED lamps, typ. 3 ... 400 W, electronic transformers with LV LED typ. 20 ... 200 W.
Ohmic-capacitive:	20 ... 420 W
Capacitive-inductive:	not permitted
Ohmic-inductive:	20 ... 420 VA
Ohmic and HV LED:	typical 3 ... 100 W
Ohmic and CFL:	typical 3 ... 100 W
Amplifiers:	see instructions for amplifier
Connection:	screw terminals
single wire:	1 x 0.75 ... 4.0 mm ² 2 x 0.75 ... 2.5 mm ²
stranded without ferrule:	1 x 0.75 ... 4.0 mm ² 2 x 0.75 ... 2.5 mm ²
stranded with ferrule:	1 x 0.5 ... 2.5 mm ²
Number of satellite units	
Satellite insert 2-wire 1720 NE:	unlimited
Satellite insert 3-wire 1723 NE:	10
Rotary satellite insert 3-wire 1733 DNE:	10
unlit installation buttons:	unlimited
Total length of extension unit cable:	max. 100 m
Total length power cable:	max. 100 m
Mounting width:	36 mm (2 rail units)



Ref.-no.

Amplifier LED

Rail mounting device, 2 rail units

ULZ 1755 REG

Intended use

- Power extension of the listed dimmers (ref.-no.: UD 1755 REG, 1730 DD, 1731 DD, 1710 DE, 1711 DE, 1712 DE, FM UD 20250 UP, FM UD 5500 REG, FM UD 420250 REG, 3901 REGHE, 3902 REGHE, 39004 1S R)
- Mounting on DIN rail according to EN 60715 in distribution boxes

Product characteristics

- Connection of several amplifiers to a single dimmer
- The total power of the connected loads is divided between the dimmer and amplifiers
- Power is supplied to the connected loads via a common power cable
- Operation using upstream dimmer
- Electronic over-temperature protection
- Optional accessory: compensation module LED, ref.-no.: KM LED 230 U

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50/60 Hz
Stand-by power:	approx. 0.5 W
Power loss:	approx. 4.3 W
Ambient temperature:	-5 ... +45 °C
Connection:	screw terminals
single wire:	1 x 0.75 ... 4.0 mm ² 2 x 0.75 ... 2.5 mm ²
stranded without ferrule:	1 x 0.75 ... 4.0 mm ² 2 x 0.75 ... 2.5 mm ²
stranded with ferrule:	1 x 0.5 ... 2.5 mm ²
Total length power cable:	max. 100 m
Mounting width:	36 mm (2 rail units)
Permissible load depends on dimmer, operation mode and type of load, see operating instructions	

Compensation module LED

KM LED 230 U

Intended use

- Use in combination with JUNG Tronic dimmers or universal dimmers in trailing edge phase control mode which are operated with dimmable HV LED lamps (ref.-no.: 1224 LED UDE, 1252 UDE, 1710 DE, 1711 DE, 1712 DE, 1724 DM, 1724 DEB, 1730 DD, 1731 DD, 211 GDE, 225 TDE, 254 UDIE1, 3901 REGHE, 3902 REGHE, 39004 1S REGHE, 824 TDW, FM UD 20250 UP, FM UD 420250 REG, FM UD 5500 REG, UD 1255 REG, UD 1755 REG, ULZ 1755 REG, UDS 4 REGHE)
- Use in combination with illuminated switches which are operated with dimmable HV LED lamps
- Use indoors
- Installation in lamp, flush box according to EN 60670-1 or distribution box

The module is used to:

- improve the dimming behaviour of dimmers which are not optimised for HV-LED lamps
- to avoid that HV LED lamps which are connected to a dimmer glow when switched off
- to avoid that HV LED lamps which are connected to a switch with illumination (up to 3 mA) glow when they are switched off

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50/60 Hz
Power loss:	max. 2 W
Housing temperature:	max. 65 °C
Cable length:	approx. 150 mm
Dimensions (W x H x D):	43 x 11.5 x 28.5 mm



TRONIC transformers



Ref.-no.

TRONIC transformer

SNT 40

Technical data

Rated capacity:	10 ... 40 W
Rated voltage:	AC 230 V ~, 50/60 Hz
Output voltage:	11.7 V eff. ~ 50 kHz
Short-circuit protection:	electronic protection without fuse
Output cable length:	max. 2 m
Dimensions (W x H x D):	73 x 35.5 x 18 mm
Ambient temperature:	max. 50 °C
Housing temperature:	max. 85 °C
Length of connected cables:	approx. 210 mm
Approvals:	VDE



TRONIC transformer

SNT 70 Q

Technical data

Rated capacity:	20 ... 60 W T = 50 °C / 20 ... 70 W T = 40 °C
Rated voltage:	AC 230 V ~, 50/60 Hz
Output voltage:	11.7 V eff. ~ 40 kHz
Short-circuit protection:	electronic protection without fuse
Output cable length:	max. 2 m
Dimensions (W x H x D):	49 x 48 x 28 mm
Ambient temperature:	max. 50 °C (60 W)
Housing temperature:	max. 75 °C
Length of connected cables:	approx. 210 mm
Approvals:	VDE



TRONIC transformer

SNT 105 F

Technical data

Rated capacity:	20 ... 105 W
Rated voltage:	AC 230 V ~, 50/60 Hz
Output voltage:	11.8 V eff. ~ 40 kHz
Short-circuit protection:	electronic protection without fuse
Output cable length:	max. 2 m
Dimensions (W x H x D):	175 x 42 x 18 mm
Ambient temperature:	max. 50 °C
Housing temperature:	max. 80 °C
Terminals	
primary	screw terminals (2 pairs)
secondary	screw terminals (3 pairs)
Approvals:	VDE



TRONIC transformer

SNT 105-35

Technical data

Rated capacity:	35 ... 105 W
Rated voltage:	AC 230 V ~, 50 Hz
Output voltage:	11.7 V eff. ~ 40 kHz
Short-circuit protection:	electronic protection without fuse
Output cable length:	max. 2 m
Dimensions (W x H x D):	172.5 x 42 x 18 mm
Ambient temperature:	max. 50 °C
Housing temperature:	max. 75 °C
Terminals	
primary	screw terminals (2 pairs)
secondary	cable length approx. 210 mm
Approvals:	VDE



Ref.-no.

TRONIC transformer

SNT 150

Technical data

Rated capacity:	20 ... 150 W
Rated voltage:	AC 230 V ~, 50/60 Hz
Output voltage:	11.7 V eff. ~ 40 kHz
Short-circuit protection:	electronic protection without fuse
Output cable length:	max. 1 m
Dimensions (W x H x D):	176 x 42 x 38 mm
Ambient temperature:	max. 50 °C
Housing temperature:	max. 75 °C

Terminals

primary	screw terminals (2 pairs)
secondary	screw terminals (3 pairs)

Approvals: VDE



TRONIC transformer

SNT 200

Technical data

Rated capacity:	50 ... 210 W
Rated voltage:	AC 230 V ~, 50 Hz
Output voltage:	11.5 V eff. ~ 40 kHz
Short-circuit protection:	electronic protection without fuse
Output cable length:	max. 2 m
Dimensions (W x H x D):	212 x 48.5 x 46 mm
Ambient temperature:	max. 45 °C
Housing temperature:	max. 65 °C

Terminals

primary	screw terminals (2 pairs)
secondary	screw terminals (2 pairs)

Approvals: VDE



Push-button controller, built-in

for dimming of fluorescent lamps controlled by electronic ballasts
or electronic transformers with control voltage 1 – 10 V

240-10 EB

operation by push-buttons (NO contact), e.g. ref.-no. 531 U

Intended use

- Switching and brightness setting of luminaires with 1 – 10 V interface
- Installation in false ceilings or surface mounting

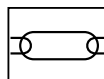
Product characteristics

- The light bulb is switched on and off via the load cable and dimmed via the 1 – 10 V interface
- Operation via installation button, NO contact
- Can be switched to memory function with brightness memory
- The 1 – 10 V interface is short-circuit proof for the control current

Technical data

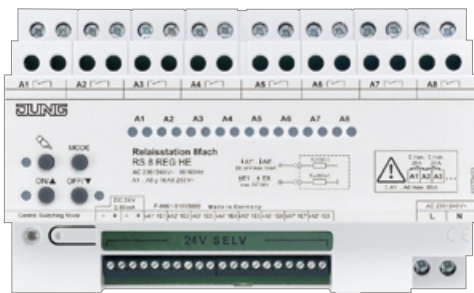
Rated voltage:	AC 230 V ~, 50 Hz
Switch contact:	relay, mains potential
Switching capacity	
Ohmic load:	2300 W
Electronic ballast, transformer:	depending on type
Control current of electronic ballast:	max. 200 mA
Short-circuit protection:	line circuit breaker, max. 10 A
Electrical isolation:	2 kV basic insulation
Ambient temperature:	max. 50 °C

No-load protection:	yes
Connection mode:	screw terminals
single wire:	max. 4 mm ²
stranded without ferrule:	max. 2.5 mm ²
stranded with ferrule:	max. 1.5 mm ²
Dimensions (W x H x D):	175 x 42 x 18 mm



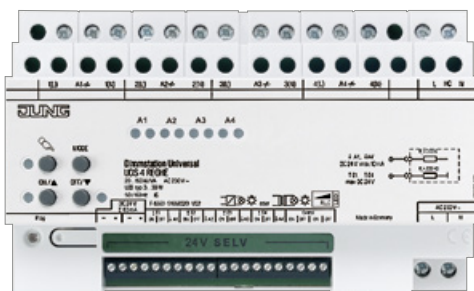


Sensor modules, push-button sensors, push-buttons (normally open contacts) or key card holders can be connected as control elements. Several functions can be conveniently controlled with only one device.



RELAY STATION 8-GANG UNIVERSAL

The relay station has eight floating contacts for switching, sensing and moving blinds / shutters. The functions are possible in mixed operation. The lighting and automatic shading control can be centrally controlled with the central function. Connection in parallel of two relay stations or of a relay station with a dimming station is possible.

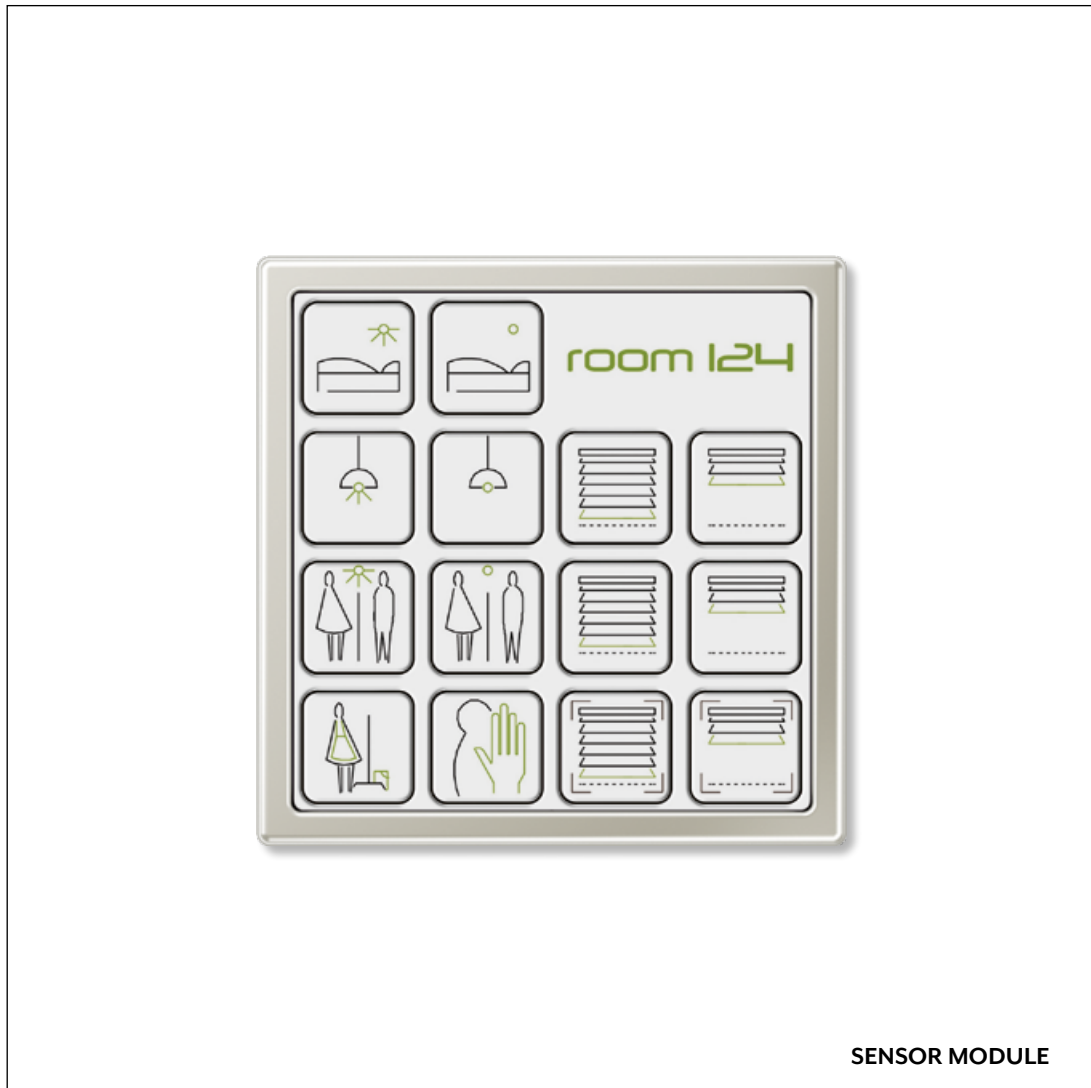


UNIVERSAL DIMMING STATION



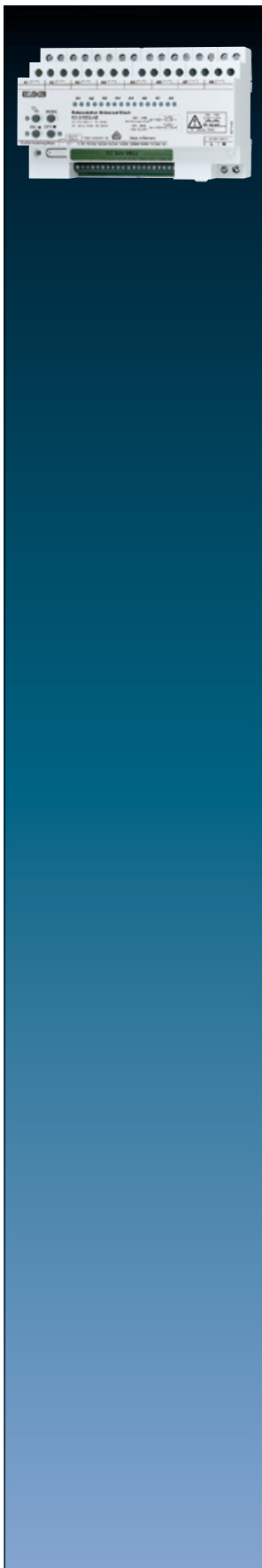
The dimming station has four channels for dimming and switching of lighting. It provides all features of a JUNG dimmer. The fade-out function can be used when switching off. Connection in parallel of two dimming stations or of a dimming station with a relay station is possible.

JUNG Bus



The JUNG bus is the installation solution using 24 volt technology, suitable for everything from a private apartment to a hotel. A crucial aspect is simple installation and use. The system requires only a few devices and little wiring.

Relay station



Ref.-no.

Relay station universal, 8-gang

Rail mounting device, 8 rail units
with manual electronic operation and LED status indication
8 NO contacts

RS 8 REGHE

Intended use

- Switching of lighting
- Switching of single-phase fan motors
- Switching of electrically-driven blinds, shutters, awnings and similar hangings
- Mounting on DIN rail in distribution boxes
- Operation by means of sensor modules, push-button modules, or unlit installation buttons

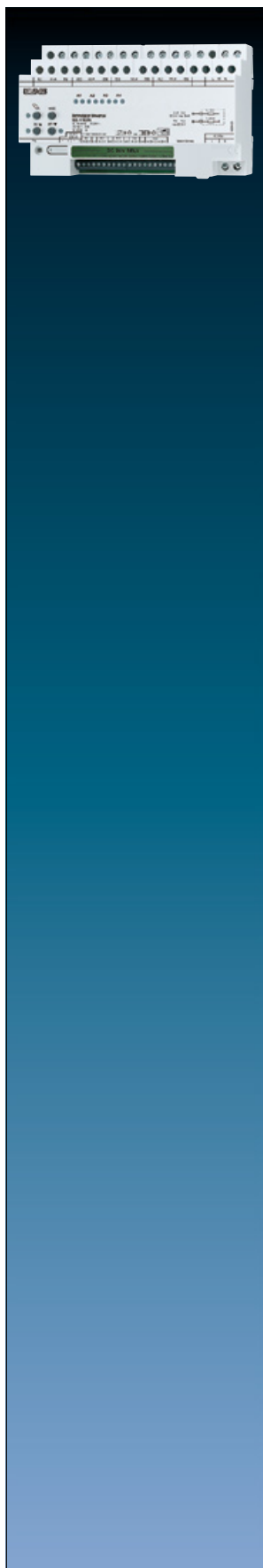
Product characteristics

- Local control. The relay station can be controlled using the keypad when the control units are not connected.
- Activation of status LEDs on the control units. The relay station has the activation outputs A1'...A8' for this purpose.
- Switching operation
- Push-button operation
- Blind operation with slat adjustment
- Mixed operation of switching, push-button and blind control is possible.
- Central switching function All On, All Off
- Parallel switching of two relay stations possible

Technical data

Rated voltage:	AC 230/240 V ~, 50/60 Hz
Power loss:	12.5 W
Stand-by power:	0.5 W
Length of control cable:	max. 100 m
Number of control units	
Sensor module (ref.-no. SM 1608):	max. 4 (also when relay/dimming stations are connected in parallel)
Push-button module 24 V AC/DC (NO contact):	depending on push-button module, consider current consumption
Push-button module (ref.-no. 4008 TSM):	max. 4 (also when relay/dimming stations are connected in parallel)
Control units	
Voltage:	DC 24 V SELV
Current carrying capacity:	Σ 80 mA
Switching inputs E1 ... E8	
Resistance Ri:	200 kΩ
Control voltage:	DC 24 V SELV
Activation outputs A1' ... A8'	
Resistance Ra:	330 Ω
Control voltage:	DC 24 V SELV
Current carrying capacity:	10 mA
Connection, mains and load outputs	
Connection mode:	screw terminals
single wire:	1 x 1.5 ... 4 mm ²
stranded without ferrule:	1 x 0.75 ... 4 mm ²
stranded with ferrule:	1 x 0.5 ... 2.5 mm ²
Connection of switching inputs, activation outputs and control units	
Connection mode:	screw terminals
single wire:	1.5 mm ²
stranded without ferrule:	1 mm ²
stranded with ferrule:	0.75 mm ²
Load outputs A1 ... A8	
Contact type:	floating NO contact (μ contact)
Breaking capacity per load output:	AC 250 V ~ / 16 AX
Switching current, load outputs:	Σ 80 A
Switching current neighbouring load outputs:	Σ 20 A
Loads per output	
Ohmic load:	3000 W
Capacitive load:	16 A / max. 140 μF
Blind / Fan motors:	1380 VA
Switch-on current:	max. 800 A (200 μs) max. 165 A (20 ms)
Lamp loads	
Incandescent lamps:	3000 W
HV halogen lamps:	2500 W
LV halogen lamps with	
electronic transformers:	1500 W
inductive transformers:	1200 VA
Fluorescent lamps	
non-compensated:	1000 W
parallel compensated:	1160 W / 140 μF
lead-lag circuit:	2300 W / 140 μF
Electronic ballast:	depending on type
Minimum load:	AC 12 V, 100 mA
Ambient temperature:	-5 ... +45 °C
Storing temperature:	-25 ... +70 °C
Mounting width:	144 mm (8 rail units)
Change-over time for direction change:	1 s
Switch-on time, blinds operation:	2 min

Dimming station



Ref.-no.

LED universal dimming station 4-gang

Rail mounting device, 8 rail units

UDS 4 REGHE

Intended use

- Switching and dimming of incandescent lamps, HV halogen lamps, dimmable HV LED lamps, dimmable compact fluorescent lamps, dimmable inductive transformers with LV halogen or LV LED lamps, dimmable electronic transformers with LV halogen or LV LED lamps
- Suitable for mixed load up to the specified output
- Operation by means of push-button sensors, sensor modules, push-button modules or unlit installation buttons
- Operation by means of push-button sensors, sensor modules, push-button modules or unlit installation buttons
- Installation in distribution boxes on DIN rail according to EN 60715
- It is not possible to operate the device with universal amplifiers in conjunction with electronic transformers! Please use TRONIC amplifiers for power extension when operating electronic transformers.

Product characteristics

- The dimming station can be controlled using the keypad.
- Activation of status LEDs on the control units. The dimming station has the activation outputs A1'...A4' for this purpose.
- Electronic short-circuit protection with permanent switch-off after 7 seconds at the latest
- Electronic over-temperature protection
- Integrated memory function for each channel (storing of brightness value)
- Switch-on brightness can be saved permanently
- Switch-on via bulb-preserving soft start
- Switching off with dim-down function
- Increase in output power possible through parallel switching of multiple outputs
- Power extension possible by means of power boosters (ref.-no. ULZ 1755 REG)
- Special connection for hotel card switch
- Central switching function All On, All Off
- Parallel connection of two dimming stations or one dimming and one relay station possible
- Automatic setting of the dimming principle suitable for the load
- Optional accessory: compensation module LED, ref.-no.: KM LED 230 U

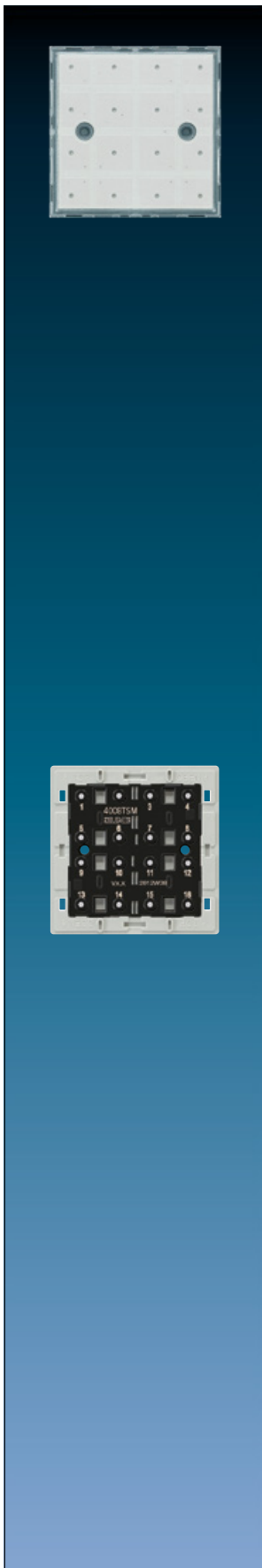
Function hotel card switch

In combination with a hotel card switch (ref.-no.: .. CARD ..): When plugging in the hotel card the light will be switched on with the stored brightness level. After removing the hotel card the light remains on and can be controlled for 1 more minute. After the elapsed time the light dims down (within an adjustable time of 30 seconds to 3 minutes) to minimum brightness and then switches off. The dimming station can be controlled again after plugging in the hotel card.

Technical data

Rated voltage:	AC 230/240 V ~, 50/60 Hz
Power loss:	max. 20 W
Stand-by power:	max. 2 W
Terminals -, +	
Control voltage:	DC 24 V SELV
Current carrying capacity:	Σ 80 mA
Length of control cable:	max. 100 m
Number of control units	
Sensor module (ref.-no. SM 1608):	max. 4 (also when relay/dimming stations are connected in parallel)
Push-button module (ref.-no. 4008 TSM):	max. 4 (also when relay/dimming stations are connected in parallel)
Push-button module 24 V AC/DC (NO contact):	depending on push-button module, consider current consumption
Switching inputs E1ON/OFF ... E4ON/OFF	
Control voltage:	DC 24 V SELV
Resistance Ri:	200 kΩ
Activation outputs A1' ... A4'	
Control voltage:	DC 24 V SELV
Current carrying capacity:	10 mA
Resistance Ra:	330 Ω
Mains / load outputs / key card switch	
Connection mode:	screw terminals
single wire:	1 x 1.5 ... 4 mm ²
stranded without ferrule:	1 x 0.75 ... 4 mm ²
stranded with ferrule:	1 x 0.5 ... 2.5 mm ²
Connection of switching inputs, activation outputs and control units	
Connection mode:	screw terminals
single wire:	1.5 mm ²
stranded without ferrule:	1 mm ²
stranded with ferrule:	0.75 mm ²
Load outputs A1 ... A4	
Contact type:	ε
Length of output cable, per channel:	max. 100 m
Connected load per channel	
Incandescent lamps:	20 ... 150 W
HV halogen lamps:	20 ... 150 W
Electronic transformers:	20 ... 150 W
Inductive transformers:	20 ... 150 VA
Dimmable HV LED lamps:	typical 3 ... 30 W
Dimmable compact fluorescent lamps:	typical 3 ... 30 W
Ohmic-capacitive:	20 ... 150 W
Ohmic-inductive:	20 ... 150 VA
Capacitive-inductive:	not permitted
Reduction of load for every 5 °C exceeding 45 °C:	-15 %
Max. load for outputs connected in parallel is limited to 80 %.	
Mounting width:	144 mm (8 rail units)





Ref.-no.

Sensor module (JUNG bus)

for the connection of relay station (ref.-no. RS 8 REGHE) and dimming station (ref.-no. UDS 4 REGHE)
Only in combination with frames of the LS range and FLAT DESIGN.

SM 1608

Features

- Up to 16 load outputs of the relay or dimming station can be controlled
- Switching, push-button, dimming, blind
- Light scenes: up to 4 light scenes per control point can be freely configured
- Central function: all assigned load outputs are switched on/off centrally
- Free assignment of the sensor surfaces to the load outputs, central functions and light scenes
- Settings can be changed
- LEDs can be used as feedback and as orientation light
- Feedback of switching states on all connected sensor modules
- LED brightness adjustable in 3 stages (100 %, 50 %, OFF)
- Up to 4 sensor modules can be connected to a single relay/dimming station, even with stations connected in parallel
- Cloning: transfer of a set assignment to another sensor module
- If mains power fails, assignments are retained
- Simple installation via 2-wire cable
- Labelling possible with JUNG Graphic Tool

Technical data

Power supply:	DC 24 V SELV (via relay or dimming station)
Current consumption:	max. 20 mA (all LEDs on)
Connection:	bus connection block
Inscription field (W x H):	68.5 x 68.5 mm
Ambient temperature:	+5 ... +45 °C
Storing temperature:	-25 ... +75 °C

Push-button module (JUNG bus)

for the connection of relay station (ref.-no. RS 8 REGHE) and dimming station (ref.-no. UDS 4 REGHE)
Adapter frames are included in delivery:
ref.-no. LS 4 AR for LS range (pre-mounted) and ref.-no. CD 4 AR for CD range.
AS / A ranges without adapter frame.

4008 TSM

Product characteristics

- 8 channels of the relay station can be controlled: switching, push-button control, blind control
- 16 channels of 2 parallel-wired relay stations can be controlled in combination with push-button extension module ref.-no.: 4094 TSEM
- All station channels are switchable in delivery state
- Central function: all selected station channels are controlled centrally
- Light scenes: up to four light scenes can be set freely
- Push-buttons can be assigned according to cover kit
- Programming without additional tools
- Free assignment of the groups to the channels
- Red LED as status indicator (can be switched off)
- Blue operation LED (can be switched off)
- Status feedback of the switching states to connected push-button modules and sensor modules
- Up to 4 push-button modules with max. 4 extension modules can be connected to single or parallel connected relay/dimming stations
- Cloning of modules: transfer the assignment of one module to further modules
- Cloning of push-button modules with extension module is possible
- Simple installation via 2-wire cable

Technical data

Power supply:	DC 24 V SELV (via relay or dimming station)
Current consumption:	max. 20 mA (all LEDs on)
Connection mode:	connection terminal
Ambient temperature:	+5 ... +25 °C
Storing temperature:	-25 ... +75 °C

Ref.-no.

Push-button extension module

for the extension of up to 8 additional push-buttons for the push-button module ref.-no. 4008 TSM

preferred installation: vertical

Adapter frames are included in delivery:

ref.-no. LS 4 AR for LS range (pre-mounted) and ref.-no. CD 4 AR for CD range.

AS / A ranges without adapter frame.

8 red LED: status indication

4-gang

4094 TSEM

Cover kits for AS and A ranges see page 671

Cover kits for CD range see page 672

Cover kits for LS range see page 673



Multiwire system



Ref.-no.

F 50 Push-button modules for connection to relay station ref.-no. RS 8 REGHE, dimming station ref.-no. UDS 4 REGHE or other control systems with control voltage of max. 24 V AC/DC (SELV), 20 mA. The module is connected by means of a connection block at the back.

- To be completed with cover kit
- One red status LED per button

In combination with the PHC system of the company PEHA the proper functioning of the status LED cannot be guaranteed. Please contact our technical service line.

Push-button module 24 V AC/DC, 20 mA for AS and A ranges

including transparent cover ref.-no.: A 50 NA

1-gang	1-channel	2 contacts	A 5212 TSM
2-gang	2-channel	4 contacts	A 5224 TSM
3-gang	3-channel	6 contacts	A 5236 TSM
4-gang	4-channel	8 contacts	A 5248 TSM

Cover kits for AS and A ranges see page 662

Push-button module 24 V AC/DC, 20 mA for CD range

including transparent cover ref.-no.: CD 50 NA

1-gang	1-channel	2 contacts	CD 5212 TSM
2-gang	2-channel	4 contacts	CD 5224 TSM
3-gang	3-channel	6 contacts	CD 5236 TSM
4-gang	4-channel	8 contacts	CD 5248 TSM

Cover kits for CD range see page 665

Push-button module 24 V AC/DC, 20 mA for LS range

including transparent cover ref.-no.: LS 50 NA

1-gang	1-channel	2 contacts	LS 5212 TSM
2-gang	2-channel	4 contacts	LS 5224 TSM
3-gang	3-channel	6 contacts	LS 5236 TSM
4-gang	4-channel	8 contacts	LS 5248 TSM

Cover kits for LS range see page 668

Ref.-no.

F 40 Push-button modules for connection to relay station ref.-no. RS 8 REGHE, dimming station ref.-no. UDS 4 REGHE or other control systems with control voltage of max. 24 V AC/DC (SELV), 20 mA. The module is connected by means of a connection block at the back. To each push-button two red LEDs are assigned for status indication.

In combination with the PHC system of the company PEHA the proper functioning of the status LED cannot be guaranteed. Please contact our technical service line.

Push-button module 24 V AC/DC, 20 mA

Adapter frames are included in delivery:

ref.-no. LS 4 AR for LS range (pre-mounted) and ref.-no. CD 4 AR for CD range.

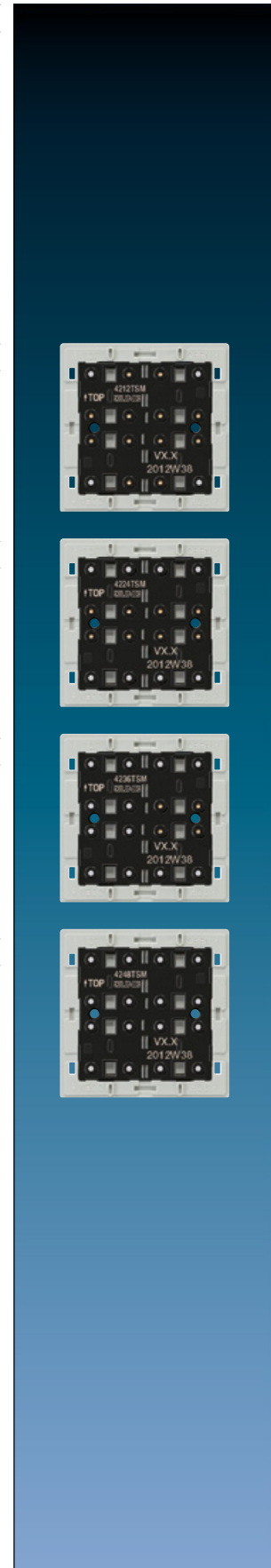
AS / A ranges without adapter frame.

1-gang	1-channel	2 contacts	4212 TSM
2-gang	2-channel	4 contacts	4224 TSM
3-gang	3-channel	6 contacts	4236 TSM
4-gang	4-channel	8 contacts	4248 TSM

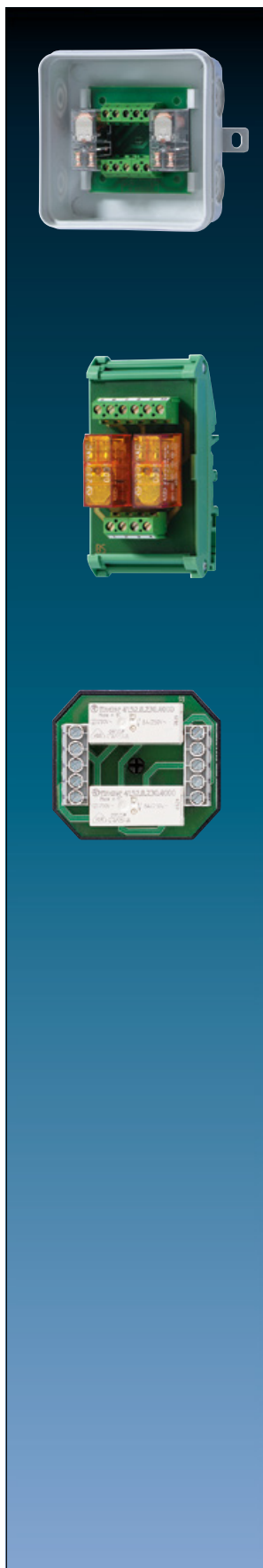
Cover kits for AS and A ranges see page 671

Cover kits for CD range see page 672

Cover kits for LS range see page 673



Decoupling relays



Ref.-no.

Decoupling relay

TR-S

For blinds control if more than one motor should be connected to a mechanical switch/push-button or a motor control insert. The relay is designed for two drives.

Technical data

Rated voltage:	AC 230 V ~, 50 Hz
Control:	AC 230 V ~, 50 Hz
Switching capacity:	4 A, AC 230 V ~
	$\cos \varphi \geq 0.8$ ind.
Duty cycle:	100 %

Decoupling relay for rail mounting

Rail mounting device, 2.5 rail units

TR-S REG

For blinds control if more than one motor should be connected to a mechanical switch/push-button or a motor control insert. The relay is designed for two drives.

Technical data

Rated voltage:	AC 230 V ~, 50 Hz
Control:	AC 230 V ~, 50 Hz
Switching capacity:	4 A, AC 230 V ~
	$\cos \varphi \geq 0.8$ ind.
Duty cycle:	100 %

Decoupling relay, flush-mounted

TR-SUP

For blinds control if more than one motor should be connected to a mechanical switch/push-button or a motor control insert. The relay is designed for two drives. Decoupling relay for flush-mounting in wall box (deep wall box recommended).

Technical data

Rated voltage:	AC 230 V ~, 50 Hz
Control:	AC 230 V ~, 50 Hz
Switching capacity:	4 A, AC 230 V ~
	$\cos \varphi \geq 0.8$ ind.
Duty cycle:	100 %

Ref.-no.

Weather station

Rail mounting device, 6 rail units

WSK 100 REG

In connection with the digital combi sensor WS10 KS and the power supply unit WSSV10, the weather station WSK100 REG measures brightness, wind intensity and rain. Based on brightness and wind intensity, the station controls a connected shutter control system independently for the east, south and west sides of a house. When the combi sensor detects rain, the windows or skylights can be closed automatically.

Features

- Independent outputs for the shutters of the east, south and west facade of a house
- Separately adjustable shading function for the east, south and west facade
- Presetable common limit value for the wind alarm for the three house facades
- Precipitation detect function with switched output, e.g. for the control of skylights
- Standard shutter moving time of 2.5 minutes in sun protection mode can be shortened independently for each facade
- Monitoring of combination sensor connection cable with alarm function and message display

The weather station has to be supplied with the external power supply WSSV 10.

Technical data

Power supply

Supply voltage: AC 24 V ~ ± 15 %

Current consumption: max. 300 mA

Ambient temperature: -5 ... +45 °C

Storage/transport temperature: -25 ... +70 °C

Humidity

Ambient/storage/transport: max. 93 % r. h., no condensation

Mounting width: 108 mm (6 rail units)

Terminals

Inputs, power supply: screw terminals

single wire: 1 x 0.5 ... 4 mm²

stranded without ferrule: 1 x 0.34 ... 4 mm²

stranded with ferrule: 1 x 0.14 ... 2.5 mm²

Combi sensor WS 10 KS: 4-pole WAGO terminal Type 252-104

Outputs: relay (NO contacts)

8 x 250 V / 8 A

Precipitation: yes / no

Potentiometer "sensor": approx. 0 ... 76 klx

Hysteresis: ± 5 %

Potentiometer "wind": 1 ... 20 m/s, OFF

Position 1: approx. 5 m/s

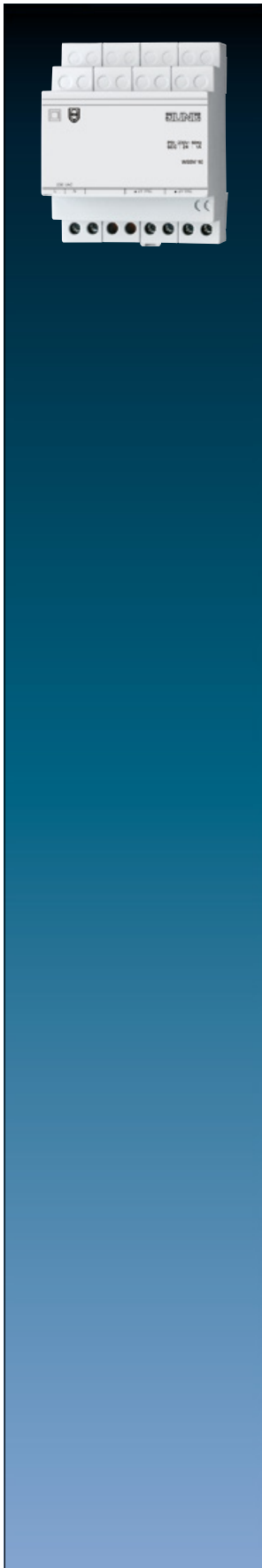
Position 2: approx. 10 m/s

Position 3: approx. 15 m/s

Hysteresis: ± 5 %



Weather station



Ref.-no.

Power supply AC 24 V ~

for weather station ref.-no.: WSK 100 REG
and for Combi sensor ref.-no.: WS 10 KS
Rail mounting device, 4 rail units

WSSV 10

Intended use

- Supplying devices with 24 V AC
- Mounting on DIN rail according to EN 60715 in distribution boxes

Product characteristics

- Two internally connected 24 V outputs
- Overload and short-circuit protection via thermo switch

Technical data

Rated voltage:	AC 230 V ~, 50/60 Hz
Output current:	max. 1 A
Output voltage:	AC 24 V ~
Storage/transport temperature:	-25 ... +70 °C
Ambient temperature:	-5 ... +40 °C
Relative humidity:	max. 93 % r. h., no condensation
Mounting width:	72 mm (4 rail units)
Connection:	screw terminals
single wire:	1 x 0.5 ... 4 mm ²
stranded with ferrule:	1 x 0.14 ... 2.5 mm ²
stranded without ferrule:	1 x 0.34 ... 4 mm ²

Ref.-no.

Combi sensor

WS 10 KS

The combi sensor serves for the measurement of the wind speed, brightness dawn and rain.

The brightness can be measured for three directions, south, east and west, separately.

It will be connected directly to the weather station which evaluates the measured data.

The combi sensor needs 24 V AC for operation. The necessary power can be supplied by the power supply unit ref.-no.: WSSV 10.

Technical data

Power supply

Sensor unit (incl. heating): AC 24 V ~ ± 15 %, 50/60 Hz

Max. power consumption: 600 mA

Connection

Connection cable: LiYCY, 6 x 0.25 mm², shielded

Length: 10 m, max. 50 m

Ambient conditions

Ambient temperature: -40 ... +60 °C (ice free)

Storage/transport temperature: -40 ... +60 °C

Humidity: outside the building

Housing

Protection level: IP 55 in position for use acc. to EN 60529

Protection class: III

Dimensions (Ø x H): 130 x ca. 200 mm (without mounting bracket)

Mounting: mounting bracket for wall or mast

Weight: approx. 330 g (without mounting bracket)

Sensor signals:

Wind sensor

Measuring range: approx. 1 ... 40 m/s

Accuracy: ≤ 0.5 m/s, -20 ... +60 °C

Precipitation sensor

Measuring range: precipitation yes / no

Sensitivity: fine drizzle

Switch-on delay: approx. 3 rain particles

Switch-off delay: approx. 2 min

Brightness sensor

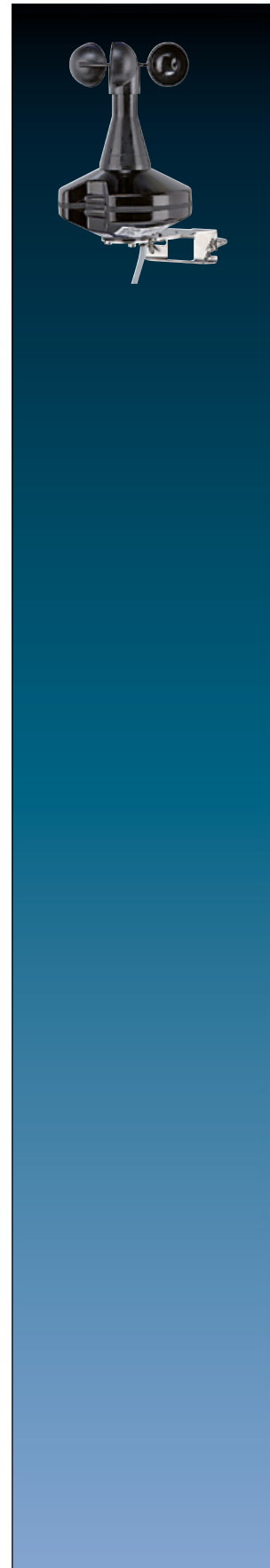
Measuring range: approx. 1 ... 110 klx

Spectral range: approx. 700 ... 1050 nm

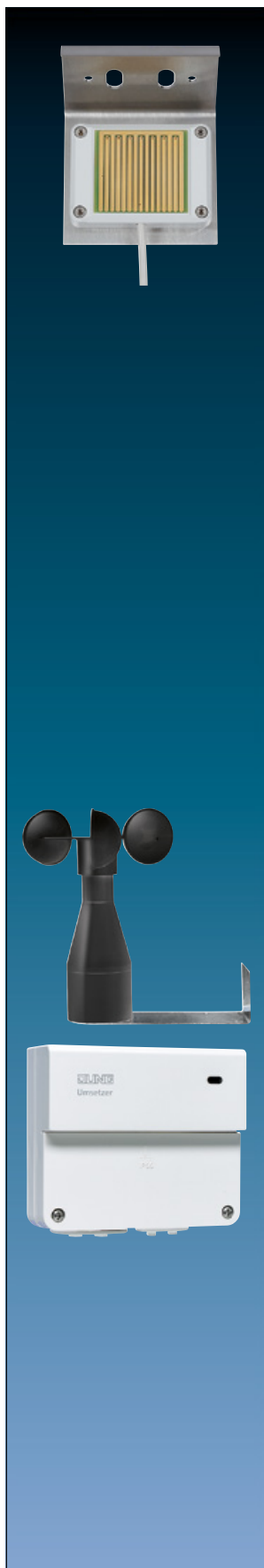
Direction: east, south, west

Dawn sensor

Measuring range: approx. 0 ... 674 lx



Weather station



Ref.-no.

Rain sensor

RW 95

Intended use

- Sensor for detection and evaluation of precipitation
- In connection with blind/shutter controllers, enables, e.g. the retraction of awnings when it begins to rain.
- Surface-mounted devices for outdoor installation

Product characteristics

- Serpentine-shaped sensor surface detects wetting due to precipitation.
- Change-over relay remains switched on until the sensor is dry again. For at least 10 minutes.
- Integrated heater speeds up the drying of the sensor surface and melts snow and ice.

Technical data

Rated voltage:	AC 230 V ~, 50/60 Hz
Current consumption:	15 mA (with preheating)
Power consumption:	max. 4.5 W (incl. auxiliary heating)
Switch-off delay:	approx. 10 min
Relay output	
dry:	contact open
rain:	contact closed
Relay switching capacity:	max. 1500 W (resistive load)
Relay contact rating:	(μ) 6 A / AC 250 V ~
Ambient temperature:	-30 ... +50 °C
Protection class:	II
Protection level:	IP 65
Connection cable:	flexible PVC cord, 2.9 m, JZ-600, 3 x 0.75 mm ² 2.9 m, JZ-600, 2 x 0.75 mm ²
Dimensions:	130 x 90 x 90 mm (incl. fitting bracket)
Weight:	approx. 600 g (incl. fitting bracket)
Mounting position:	fixed by 110° fitting bracket

Wind sensor with converter

132 U WS

Intended use

- The converter and wind sensor are used to protect a blind/shutter against destruction due to excessively strong winds. The blind/shutter is moved to a safe end position and locked there until the wind drops below the set wind speed value.
- The converter is operated together with a Universal blinds insert (ref.-no. 1731 JE) or binary inputs of the KNX system.
- Surface-mounted devices for outdoor installation

Product characteristics

- Detection and evaluation of wind speeds
- 8 wind speeds can be set
- The wind alarm is triggered 15 seconds after the set wind speed threshold value is exceeded
- Test operation for functional test
- Colour of wind sensor: black (similar RAL 9005)

Technical data

Rated voltage:	AC 230 V ~, 50 Hz
Protection level:	IP 55
Protection class:	II
Switching current:	max. 2 A
Contact type:	floating NO contact (μ contact)
Connection:	screw terminals
single wire:	max. 4 mm ²
stranded without ferrule:	max. 2.5 mm ²
stranded with ferrule:	max. 1.5 mm ²
Switch-on delay:	approx. 15 s
Switch-off delay:	approx. 15 min

Ref.-no.

Wind sensor

(Spare part)

for connection to converter ref.-no.: AT 04..

black similar RAL 9005

132 WS

Use shielded cable (J-Y(St)Y 2x2x0.6mm² is recommended) to connect the wind sensor.

Converter

(Spare part)

for connection of wind sensor ref.-no.: 132 WS

132 U

Intended use

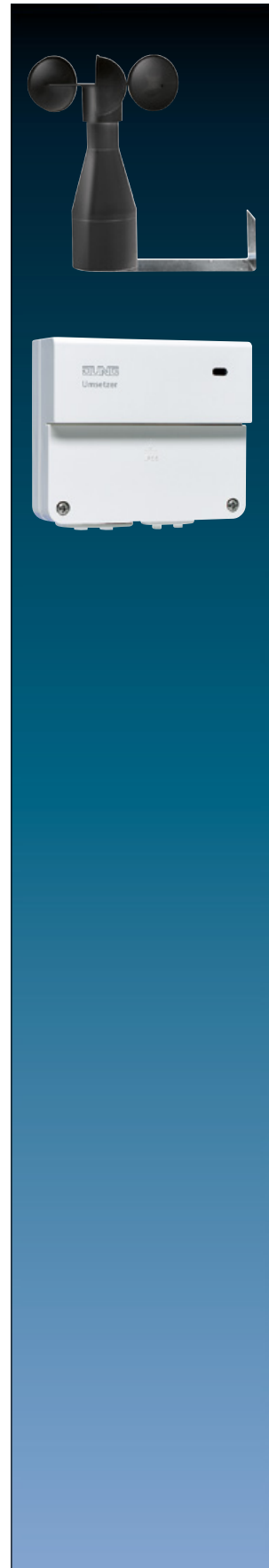
- The converter and wind sensor are used to protect a blind/shutter against destruction due to excessively strong winds. The blind/shutter is moved to a safe end position and locked there until the wind drops below the set wind speed value.
- The converter is operated together with a Universal blinds insert (ref.-no. 1731 JE) or binary inputs of the KNX system.
- Surface-mounted devices for outdoor installation

Product characteristics

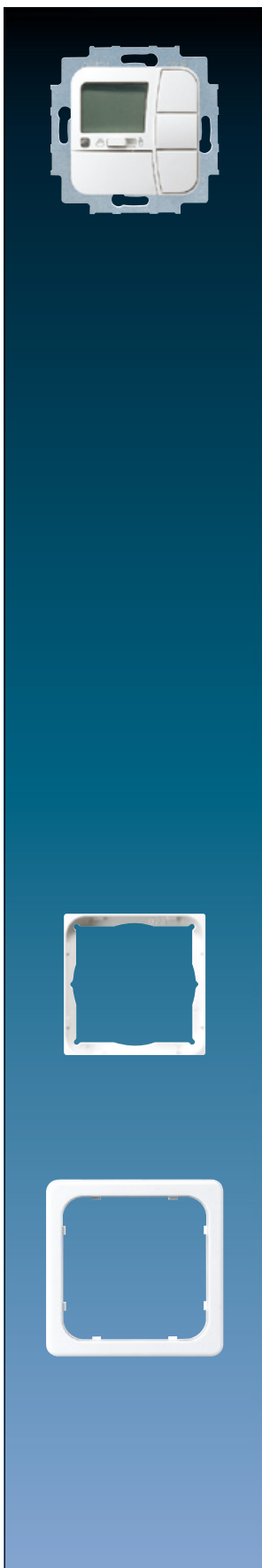
- Detection and evaluation of wind speeds
- 8 wind speeds can be set
- The wind alarm is triggered 15 seconds after the set wind speed threshold value is exceeded
- Test operation for functional test
- Colour of wind sensor: black (similar RAL 9005)

Technical data

Rated voltage:	AC 230 V ~, 50 Hz
Protection level:	IP 55
Protection class:	II
Switching current:	max. 2 A
Contact type:	floating NO contact (μ contact)
Connection:	screw terminals
single wire:	max. 4 mm ²
stranded without ferrule:	max. 2.5 mm ²
stranded with ferrule:	max. 1.5 mm ²
Switch-on delay:	approx. 15 s
Switch-off delay:	approx. 15 min



Awning control



Ref.-no.

Awning control, AeroTec 04

Thermoplastic (breakproof) high-gloss

white

AT 04 WW

The AeroTec timer may be used to operate sun protection systems **only**.

The AeroTec timer is pre-programmed ex works with current date and time (CET) settings and operates sun protection systems on the basis of sunlight intensity and wind speed.

The AeroTec timer can be operated manually at any time. The device runs on battery power, meaning it can even be programmed if the operating device has been removed, as the display does not disappear.

- Controller for awnings
- 15 languages (Display)
- Ex works pre-programmed
- Sensors can be connected
- Manual control always possible
- Additional switching time
- Adjustable inside position
- Cloth stretching function

Technical data

Rated voltage:	AC 230/240 V ~, 50/60 Hz
Switching current:	5 A / 250 V AC cos φ = 1
Switching capacity:	max. 1 motor 1000 W
Battery type:	1 button cell CR 2032 (included)
	When cell is replaced, values previously set will be preserved.
Output:	2 relays, floating contacts (NO contacts)
Input:	Brightness sensor (ref.-no.: LA 90)
	Sunlight / wind sensor (ref.-no.: AR 04)
	Wind sensor (ref.-no.: VT 04)
	Rain sensor (ref.-no.: RW 95)
Connection:	screw terminals
Terminals for:	2.5 mm ²
	Always use shielded control wire ... 0.8 mm Ø or J-ST-Y ... 0.6 mm Ø

Intermediate frame to install "AeroTec 04"

in AS and A ranges

white

A AT 581 Z WW

Frames

AS 500	(ref.-no.: AS 581.. – AS 585..)
A 550	(ref.-no.: A 5581.. – A 5585..)
A FLOW	(ref.-no.: AF 581.. – AF 585..)
A CREATION	(ref.-no.: AC 581.. – AC 585..)
surface cap	(ref.-no.: AS 581 A.. – AS 583 A..)

Intermediate frame to install "AeroTec 04"

in CD range

white

CD AT 581 Z WW

Frames

CD 500	(ref.-no.: CD 581.. – CD 585..)
CD PLUS	(ref.-no.: CDP 581.. – CDP 585..)
surface cap	(ref.-no.: CD 581 A.. – CD 583 A..)

Ref.-no.

The wind sensor should be fitted to the roof or house wall.
It must be installed at a position suitable for wind intensity measurements.
Do not install at the side sheltered from the wind.

Sunlight / wind sensor

for connection to awning control "AeroTec 04", ref.-no.: AT 04 WW

AR 04

Ensure that no shadows (e.g. from a mast, tower, etc.) and no light reflections fall on the brightness sensor.

Technical data

Protection level: IP 43

Rain sensor

RW 95

Intended use

- Sensor for detection and evaluation of precipitation
- In connection with blind/shutter controllers, enables, e.g. the retraction of awnings when it begins to rain.
- Surface-mounted devices for outdoor installation

Product characteristics

- Serpentine-shaped sensor surface detects wetting due to precipitation.
- Change-over relay remains switched on until the sensor is dry again. For at least 10 minutes.
- Integrated heater speeds up the drying of the sensor surface and melts snow and ice.

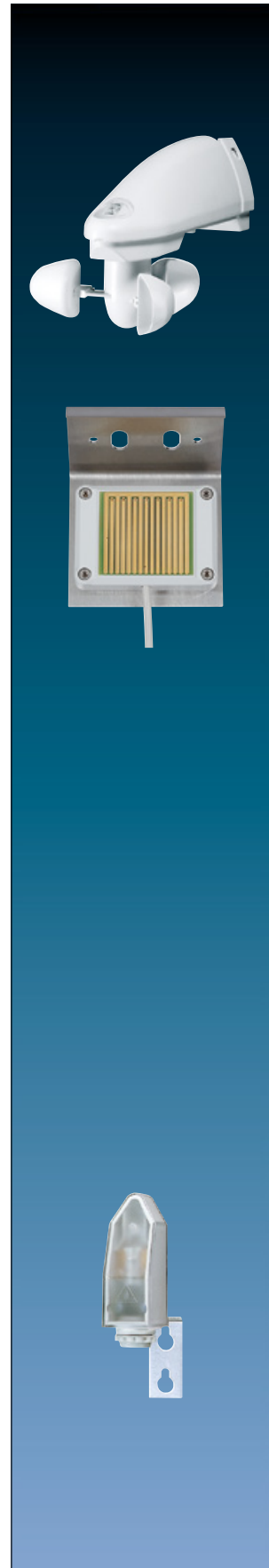
Technical data

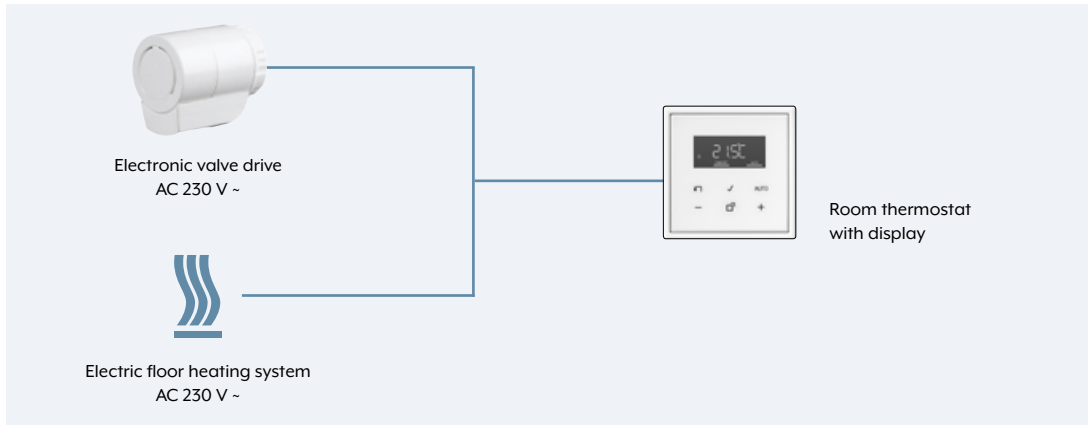
Rated voltage:	AC 230 V ~, 50/60 Hz
Current consumption:	15 mA (with preheating)
Power consumption:	max. 4.5 W (incl. auxiliary heating)
Switch-off delay:	approx. 10 min
Relay output	
dry:	contact open
rain:	contact closed
Relay switching capacity:	max. 1500 W (resistive load)
Relay contact rating:	(μ) 6 A / AC 250 V ~
Ambient temperature:	-30 ... +50 °C
Protection class:	II
Protection level:	IP 65
Connection cable:	flexible PVC cord, 2.9 m, JZ-600, 3 x 0.75 mm ² 2.9 m, JZ-600, 2 x 0.75 mm ²
Dimensions:	130 x 90 x 90 mm (incl. fitting bracket)
Weight:	approx. 600 g (incl. fitting bracket)
Mounting position:	fixed by 110° fitting bracket

Brightness sensor

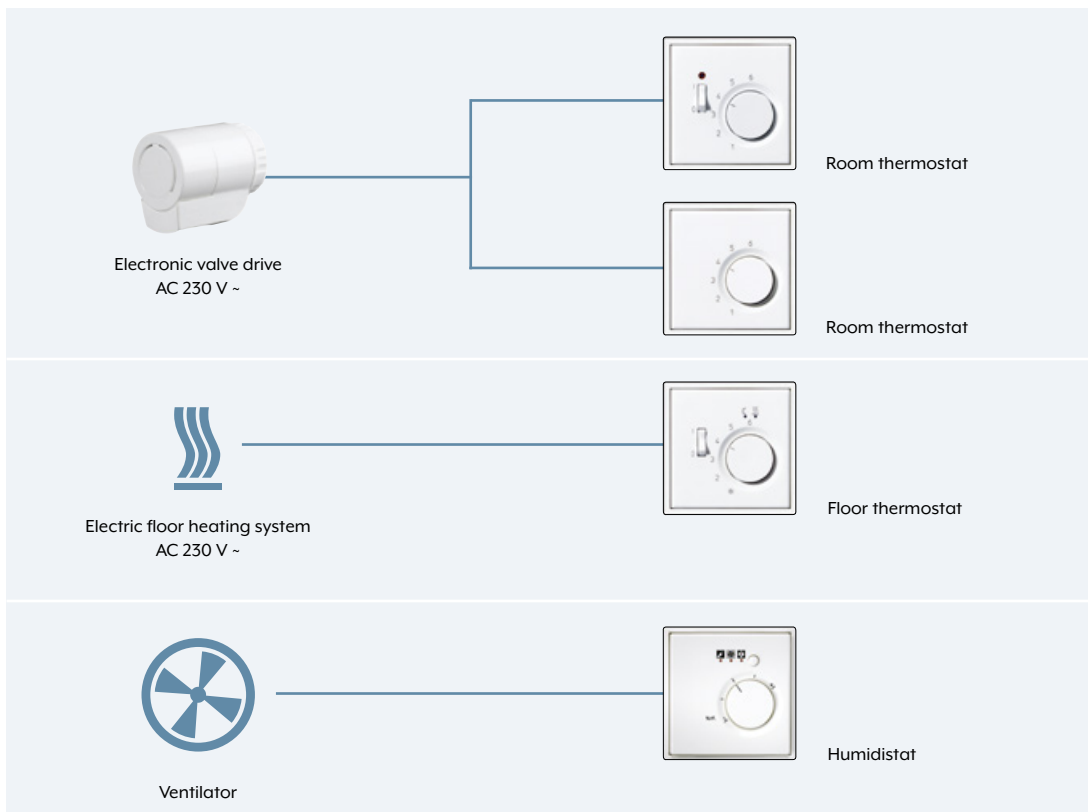
for connection to awning control "AeroTec 04", ref.-no.: AT 04 WW

LA 90





The temperature management includes controllers with normally closed and changeover contacts and floor thermostats.



The room thermostat with display and clock for time-controlled individual room temperature: Individual switching times as well as different temperature levels can be set. The self-explanatory user guidance and the display with plain text are particularly user-friendly. Summer and winter time are

automatically changed over; the preset time programs can be individually adjusted. A remote sensor can be optionally connected. The version without clock basically has the same functions, but without time programming, holiday programs etc.

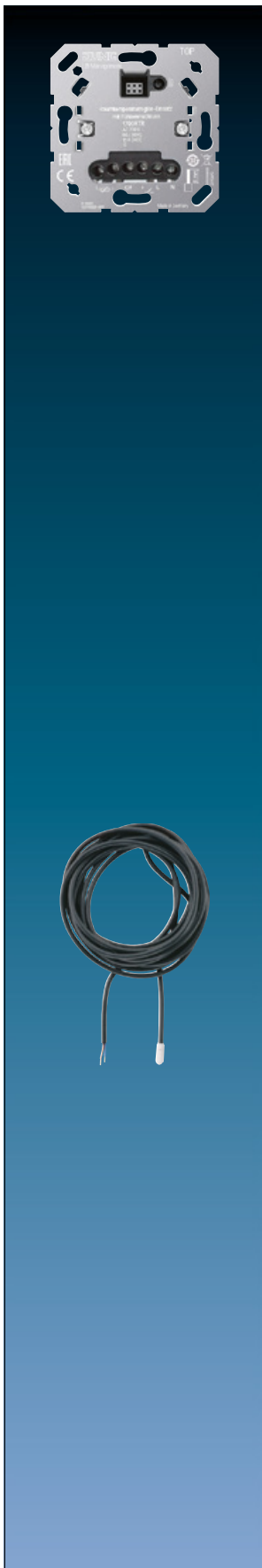
Temperature Management



ROOM THERMOSTAT WITH DISPLAY STANDARD

The room thermostat with display standard controls both water-based and electric underfloor heating systems and radiators. In combination with a modern heat pump system, it also enables room cooling. It consists of the flush-mounted room thermostat insert with sensor connection and the Standard display cover for room temperature control.

Temperature Management



Ref.-no.

Room thermostat insert

with sensor connection
for displays ref.-no.: .. 1790 D ..

1790 RTR

Intended use

- Switching of electric underfloor heating systems and electrothermal valve drives
- Operation with room temperature controller cover of the LB Management
- Installation in flush box according to EN 60670-1

Product characteristics

- Pulse width modulation (PWM) or two-point control (on/off)
- Enables connection of a remote sensor (ref.-no.: FF 7.8)
- Input for switching to cooling mode
- Interrupts the heating process after 60 minutes (overheating protection of a heater)

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50/60 Hz
Stand-by power depending on the cover:	approx. 0.1 ... 0.5 W
Switching current 230 V AC1:	10 mA ... 16 A
Connected load:	max. 3,600 W
Connection	
single wire:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded without ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded with ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 1.5 mm ²
Ambient temperature:	-5 ... +45 °C

External temperature sensor

for room thermostat ref.-no. 1790 RTR, TR D .. 1790 ..
spare part for floor thermostat ref.-no. FTR .. 231 ..

The sensor cable can be connected using a bifilar cable of 1.5 mm² in diameter that is suitable for mains voltage. When installed in a cable duct or near high voltage current cables, a shielded cable must be used.

FF 7.8

Also suitable as external temperature sensor for the following KNX devices,
ref.-no.: .. 2178 TS .., .. 2178 ORTS .., .. 5192 KRM TS D, .. 5194 KRM TS D, 2177 SV R, 23066 REGHE

Technical data

NTC sensor in plastic cap 7.8 mm Ø	
Cable length:	4 m
Ambient temperature:	-25 ... +70 °C

Ref.-no.

Display standard for room temperature control

for room thermostat insert ref.-no.: 1790 RTR

for switch inserts ref.-no.: 1701 SE, 1704 ESE

Intended use

- Manual and time-controlled regulation of the room temperature
- Operation with room thermostat insert or switch insert of the LB Management

Product characteristics

- Real glass front panel
- 6 sensor buttons
- Timer with three memory areas
Comfort and ECO time for Mo-Fr and Sa-Su in each memory area
- Setting a comfort, ECO, cooling and frost protection temperature
- Current time can be saved as switching time, quick programming
- Automatic summer/winter time changeover, can be switched off
- Illuminated segment display for easy reading
- Operating lock
- Optimised heating up (temperature is reached at the set time), can be switched off
- Adaptation to valves normally open or normally closed)
- Cooling mode possible
- Supports internal and external temperature sensor
- Temperature drop detection (call-up of frost protection temperature when window is opened)
- Offset adjustment (correction value for measured temperature)
- Controller output working method: pulse width modulation (PWM) or two-point
- Valve protection function (once a week opening and closing of valve, on Saturdays at 11 a.m.)
- Interrupts the heating process after 60 minutes for 5 minutes
- Heating / cooling, switch-over via insert input
- Display switches off after 2 minutes, permanent indication of set/actual temperature or current time possible

Technical data

Ambient temperature:	-5 ... +45 °C
Storage/transport temperature:	-20 ... +70 °C
Accuracy per month:	± 10 s
Power reserve:	> 4 h

for AS and A ranges

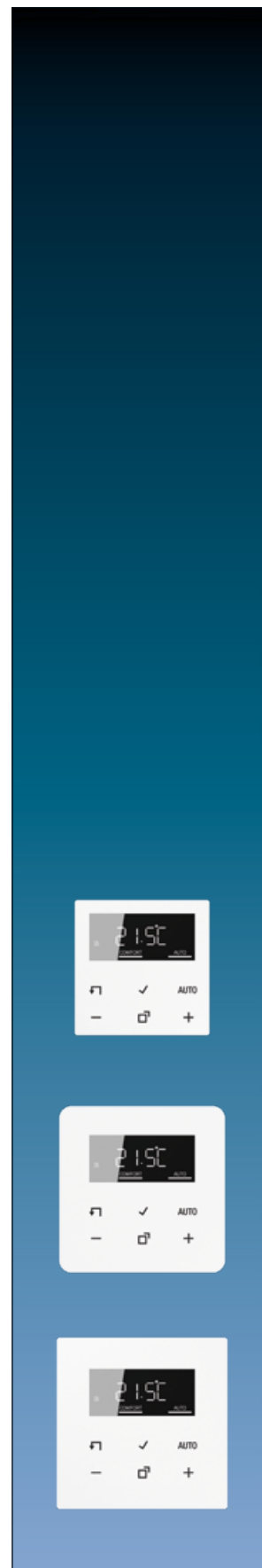
white	A 1790 D WW
black	A 1790 D SW

for CD range

white	CD 1790 D WW
black	CD 1790 D SW

for LS range

white	LS 1790 D WW
black	LS 1790 D SW



Temperature Management

Ref.-no.

Room thermostat with display standard

consists of room thermostat insert (ref.-no.: 1790 RTR) and display (ref.-no.: .. 1790 D ..)

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50/60 Hz
Stand-by power depending on the cover:	approx. 0.1 ... 0.5 W
Switching current 230 V AC1:	10 mA ... 16 A
Connected load:	max. 3,600 W
Connection	
single wire:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded without ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 2.5 mm ²
stranded with ferrule:	1 x 0.5 ... 4.0 mm ² 2 x 0.5 ... 1.5 mm ²
Ambient temperature:	-5 ... +45 °C
Accuracy per month:	± 10 s
Power reserve:	> 4 h

for AS and A ranges

white	TR D A 1790 WW
black	TR D A 1790 SW

for CD range

white	TR D CD 1790 WW
black	TR D CD 1790 SW

for LS range

white	TR D LS 1790 WW
black	TR D LS 1790 SW



Ref.-no.

Room thermostat (1-way contact)

Screwless terminals for wires up to 2,5 mm²
 screw fixing only, without claws
 1-pole NC contact 10 (4) A, AC 230 V ~, 50/60 Hz
 (The value in brackets indicates inductive loads with $\cos \varphi = 0.6$)
 Thermal feedback (neutral conductor required)
 Hysteresis: 0.5 K, nominal range: +5 °C ... +30 °C
 Separate terminal for temperature reduction of 5 K (e.g. during night time)
 ON/OFF switch with status LED
 When set temperature is reached the contact opens up.

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	TR A 231
white	TR A 231 WW
black	TR A 231 SW

Thermoplastic (breakproof) lacquered

aluminium	TR A 231 AL
champagne	TR A 231 CH
mocha	TR A 231 MO

matt lacquered

matt snow white	TR A 231 WWM
matt graphite black	TR A 231 SWM
matt anthracite	TR A 231 ANM

for CD range

Thermoplastic (breakproof) high-gloss

ivory	TR CD 231
white	TR CD 231 WW
brown	TR CD 231 BR
grey	TR CD 231 GR
light grey	TR CD 231 LG
black	TR CD 231 SW

metal versions (anodized aluminium)

gold-bronze	TR CD 231 GB
platinum	TR CD 231 PT

for SL range

white	TR SL 231 WW
gold-bronze	TR SL 231 GB
black	TR SL 231 SW



Temperature Management



Ref.-no.

Room thermostat (1-way contact)

for LS range

Thermoplastic (breakproof) high-gloss

ivory	TR LS 231
white	TR LS 231 WW
light grey	TR LS 231 LG
black	TR LS 231 SW

matt lacquered

matt snow white	TR LS 231 WWM
matt graphite black	TR LS 231 SWM

metal versions

aluminium	TR AL 231
stainless steel	TR ES 231
anthracite (aluminium lacquered)	TR AL 231 AN
dark (aluminium lacquered)	TR AL 231 D
chrome	TR GCR 231
gold-coloured	TR GO 231
gold-plated	TR LS 231 GGO
classic brass	TR ME 231 C
antique brass	TR ME 231 AT

Room thermostat (1-way contact)

Screwless terminals for wires up to 2.5 mm²

screw fixing only, without claws

1-pole NC contact 10 (4) A, AC 24 V ~

(The value in brackets indicates inductive loads with $\cos \varphi = 0.6$)

Thermal feedback (neutral conductor required)

Hysteresis: 0.5 K, nominal range: +5 °C ... +30 °C

Separate terminal for temperature reduction of 5 K (e.g. during night time)

ON/OFF switch with status LED

When set temperature is reached the contact opens up.

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	TR A 241
white	TR A 241 WW
black	TR A 241 SW

Thermoplastic (breakproof) lacquered

aluminium	TR A 241 AL
champagne	TR A 241 CH
mocha	TR A 241 MO

matt lacquered

matt anthracite	TR A 241 ANM
-----------------	--------------

Ref.-no.

Room thermostat (1-way contact)

for CD range

Thermoplastic (breakproof) high-gloss

ivory	TR CD 241
white	TR CD 241 WW
brown	TR CD 241 BR
grey	TR CD 241 GR
light grey	TR CD 241 LG
black	TR CD 241 SW

metal versions (anodized aluminium)

gold-bronze	TR CD 241 GB
platinum	TR CD 241 PT

for SL range

white	TR SL 241 WW
gold-bronze	TR SL 241 GB
black	TR SL 241 SW

for LS range

Thermoplastic (breakproof) high-gloss

ivory	TR LS 241
white	TR LS 241 WW
light grey	TR LS 241 LG
black	TR LS 241 SW

metal versions

aluminium	TR AL 241
stainless steel	TR ES 241
anthracite (aluminium lacquered)	TR AL 241 AN
dark (aluminium lacquered)	TR AL 241 D
chrome	TR GCR 241
gold-coloured	TR GO 241
gold-plated	TR LS 241 GGO
classic brass	TR ME 241 C
antique brass	TR ME 241 AT



Temperature Management

Ref.-no.

Room thermostat (2-way contact)

Screwless terminals for wires up to 2.5 mm²

screw fixing only, without claws

1-pole, 2-way, heating 10 (4) A, AC 230 V ~, 50/60 Hz

1-pole, 2-way, cooling 5 (2) A, AC 230 V ~, 50/60 Hz

For switching between heating/cooling the EBERLE terminal strip EV..H/K is necessary.

(The value in brackets indicates inductive loads with $\cos \varphi = 0.6$)

Thermal feedback (neutral conductor required)

Hysteresis: 0.5 K, nominal range: +5 °C ... +30 °C

No OFF-position

Without switch and control LED

When set temperature is reached the NO/NC contact switches over.



for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory **TR A 236**

white **TR A 236 WW**

black **TR A 236 SW**

Thermoplastic (breakproof) lacquered

aluminium **TR A 236 AL**

champagne **TR A 236 CH**

mocha **TR A 236 MO**

matt lacquered

matt snow white **TR A 236 WWM**

matt graphite black **TR A 236 SWM**

matt anthracite **TR A 236 ANM**



for CD range

Thermoplastic (breakproof) high-gloss

ivory **TR CD 236**

white **TR CD 236 WW**

brown **TR CD 236 BR**

grey **TR CD 236 GR**

light grey **TR CD 236 LG**

black **TR CD 236 SW**

metal versions (anodized aluminium)

gold-bronze **TR CD 236 GB**

platinum **TR CD 236 PT**

Ref.-no.

Room thermostat (2-way contact)

for SL range

white	TR SL 236 WW
gold-bronze	TR SL 236 GB
black	TR SL 236 SW

for LS range

Thermoplastic (breakproof) high-gloss

ivory	TR LS 236
white	TR LS 236 WW
light grey	TR LS 236 LG
black	TR LS 236 SW

matt lacquered

matt snow white	TR LS 236 WWM
matt graphite black	TR LS 236 SWM

metal versions

aluminium	TR AL 236
stainless steel	TR ES 236
anthracite (aluminium lacquered)	TR AL 236 AN
dark (aluminium lacquered)	TR AL 236 D
chrome	TR GCR 236
gold-coloured	TR GO 236
gold-plated	TR LS 236 GGO
classic brass	TR ME 236 C
antique brass	TR ME 236 AT



Temperature Management



Ref.-no.

Room thermostat (2-way contact)

Screwless terminals for wires up to 2.5 mm²
 screw fixing only, without claws
 1-pole, 2-way, heating 10 (4) A, AC 24 V ~
 1-pole, 2-way, cooling 5 (2) A, AC 24 V ~
 (The value in brackets indicates inductive loads with $\cos \varphi = 0.6$)
 Thermal feedback (neutral conductor required)
 Hysteresis: 0.5 K, nominal range: +5 °C ... +30 °C
 No OFF-position
 Without switch and control LED
 When set temperature is reached the NO/NC contact switches over.

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	TR A 246
white	TR A 246 WW
black	TR A 246 SW

Thermoplastic (breakproof) lacquered

aluminium	TR A 246 AL
champagne	TR A 246 CH
mocha	TR A 246 MO
matt lacquered	
matt anthracite	TR A 246 ANM

for CD range

Thermoplastic (breakproof) high-gloss

ivory	TR CD 246
white	TR CD 246 WW
brown	TR CD 246 BR
grey	TR CD 246 GR
light grey	TR CD 246 LG
black	TR CD 246 SW

metal versions (anodized aluminium)

gold-bronze	TR CD 246 GB
platinum	TR CD 246 PT

Ref.-no.

Room thermostat (2-way contact)

for SL range

white	TR SL 246 WW
gold-bronze	TR SL 246 GB
black	TR SL 246 SW

for LS range

Thermoplastic (breakproof) high-gloss

ivory	TR LS 246
white	TR LS 246 WW
light grey	TR LS 246 LG
black	TR LS 246 SW

metal versions

aluminium	TR AL 246
stainless steel	TR ES 246
anthracite (aluminium lacquered)	TR AL 246 AN
dark (aluminium lacquered)	TR AL 246 D
chrome	TR GCR 246
gold-coloured	TR GO 246
gold-plated	TR LS 246 GGO
classic brass	TR ME 246 C
antique brass	TR ME 246 AT



Temperature Management

Ref.-no.

Floor thermostat

Screwless terminals for wires up to 2.5 mm²
 screw fixing only, without claws
 1-pole NO contact 10 A, AC 230 V ~, 50/60 Hz
 for control of electrical floor heating and floor temperature systems
 with NTC remote sensor (length: 4 m, Ø 7.8 mm)
 Neutral conductor required
 Hysteresis: 1 K
 Nominal range: +10 °C ... +50 °C
 Separate terminal for temperature reduction of 5 K (e.g. during night time)
 On/off switch
 LED red: heating
 LED green: temperature reduction active
 Non-floating relay contact
 Heating interruption acc. to EN 50559: Within one hour of permanent heating the controller automatically interrupts the heating process for 5 minutes.



for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	FTR A 231
white	FTR A 231 WW
black	FTR A 231 SW

Thermoplastic (breakproof) lacquered

aluminium	FTR A 231 AL
champagne	FTR A 231 CH
mocha	FTR A 231 MO

matt lacquered

matt anthracite	FTR A 231 ANM
-----------------	---------------



for CD range

Thermoplastic (breakproof) high-gloss

ivory	FTR CD 231
white	FTR CD 231 WW
brown	FTR CD 231 BR
grey	FTR CD 231 GR
light grey	FTR CD 231 LG
black	FTR CD 231 SW

metal versions (anodized aluminium)

gold-bronze	FTR CD 231 GB
platinum	FTR CD 231 PT

Ref.-no.

Floor thermostat

for SL range

white	FTR SL 231 WW
gold-bronze	FTR SL 231 GB
black	FTR SL 231 SW

for LS range

Thermoplastic (breakproof) high-gloss

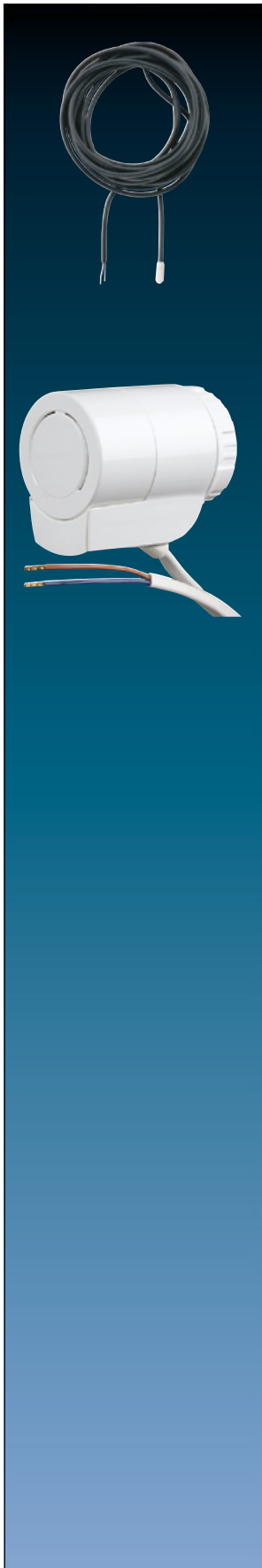
ivory	FTR LS 231
white	FTR LS 231 WW
light grey	FTR LS 231 LG
black	FTR LS 231 SW

metal versions

aluminium	FTR AL 231
stainless steel	FTR ES 231
anthracite (aluminium lacquered)	FTR AL 231 AN
dark (aluminium lacquered)	FTR AL 231 D
chrome	FTR GCR 231
gold-coloured	FTR GO 231
gold-plated	FTR LS 231 GGO
classic brass	FTR ME 231 C
antique brass	FTR ME 231 AT



Temperature Management



Ref.-no.

External temperature sensor

for room thermostat ref.-no. 1790 RTR, TR D .. 1790 ..
spare part for floor thermostat ref.-no. FTR .. 231 ..

FF 7.8

Also suitable as external temperature sensor for the following KNX devices,
ref.-no.: .. 2178 TS .., .. 2178 ORTS .., .. 5192 KRM TS D, .. 5194 KRM TS D, 2177 SV R, 23066 REGHE

Technical data

NTC sensor in plastic cap 7.8 mm Ø
Cable length: 4 m
Ambient temperature: -25 ... +70 °C

Thermal valve drive AC 230 V ~

M 30 x 1.5

TVA 230 NC WW

Intended use

Operation of straightway and 3-way valves.
For controller with switched output, 2-point regulation or pulse width modulation (PWM),
in combination with single room control systems.
Suitable for retrofitting of existing heating systems with corresponding adapter.

Product characteristics

- Forceless installation onto the valve
- Visible and haptic position indication
- Noiseless
- Maintenance-free

Technical data

Rated voltage:	AC 230 V ~, 50/60 Hz
Function:	valve in closed position when power is off (NC)
Power consumption during operation:	2.5 W
Switch-on current:	250 mA
Valve lift:	max. 4.5 mm
Run time for 4.5 mm valve lift:	approx. 3.5 min
Spring power:	max. 125 N
Ambient temperature:	0 ... +50 °C
Thread:	M 30 x 1.5
Mounting position:	all positions possible
Colour:	white (similar RAL 9016)

Ref.-no.

Adapter set

for valve drive ref.-no.: TVA 230 NC WW

Closing dimensions

with white cap: 4.5 ... 9.5 mm

with black cap: 8.5 ... 13.5 mm

without cap: 13.5 ... 18.5 mm

M 30 x 1.5

ASET 3015

M 30 x 1.0

ASET 3010

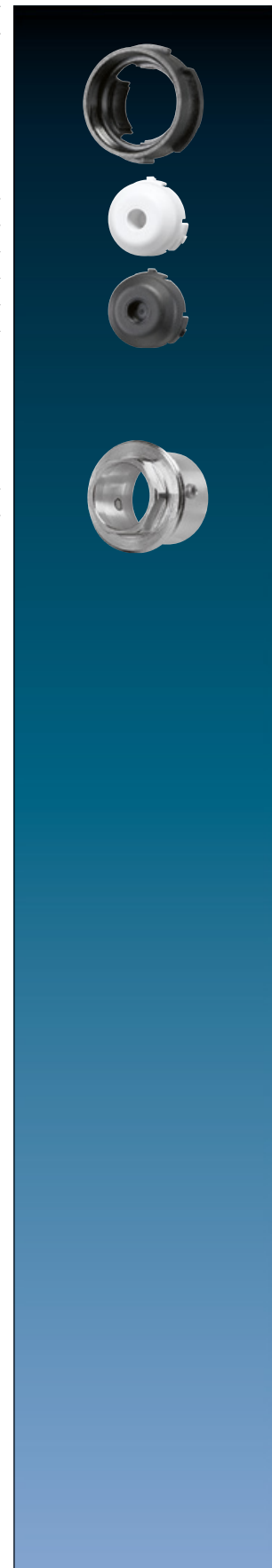
M 28 x 1.5

ASET 2815

Adapter

For mounting on Danfoss valve RA-N (RA 2000)

A 110



Temperature Management

Ref.-no.

Temperature controller fan coil, 2-pipe

Intended use

- Switching and operating electrical fan coil units with electrothermically actuated heating/cooling valves
- Measurement and feedback control of the room temperature
- Installation in flush box according to EN 60670-1 (recommendation: deep box)

Product characteristics

- Connection of one fan coil unit with up to 3 fan speeds
- Heating or cooling mode
- Real glass front panel
- 8 capacitive sensor buttons
- Internal temperature sensor
- Room temperature controller function
- Preselection of the current energy level through the option of 5 temperature profiles for use in hotels or similar sites
- Display for indication of actual temperature (°C or °F), fan speed, operating mode/profile
- Menu levels blockable
- 1 status LED (red/green/blue)
- Display brightness and contrast adjustable
- Duration of the display illumination up to 120 seconds
- Satellite input for connection of key card holder

Technical data

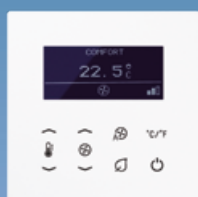
Rated voltage:	AC 110 ... 230 V ~
Mains frequency:	50/60 Hz
Switching output	
Contact type:	μ
Output current:	max. 3 A
Switching capacity	
Motors (230 V):	690 VA
Motors (110 V):	300 VA
Outputs for valve drives	
Contact type:	semiconductor (triac), ε
Switching current:	max. 250 mA
Storing temperature:	-5 ... +45 °C
Transport temperature:	-25 ... +70 °C
Ambient temperature:	-5 ... +45 °C
Relative humidity:	5 ... 95 % (no condensation)
Connection mode:	screw terminals
single wire:	1.5 mm ²
stranded with ferrule:	1.5 mm ²

for AS and A ranges

white	TRD A 523028 WW
black	TRD A 523028 SW

for LS range

white	TRD LS 923028 WW
black	TRD LS 923028 SW



Ref.-no.

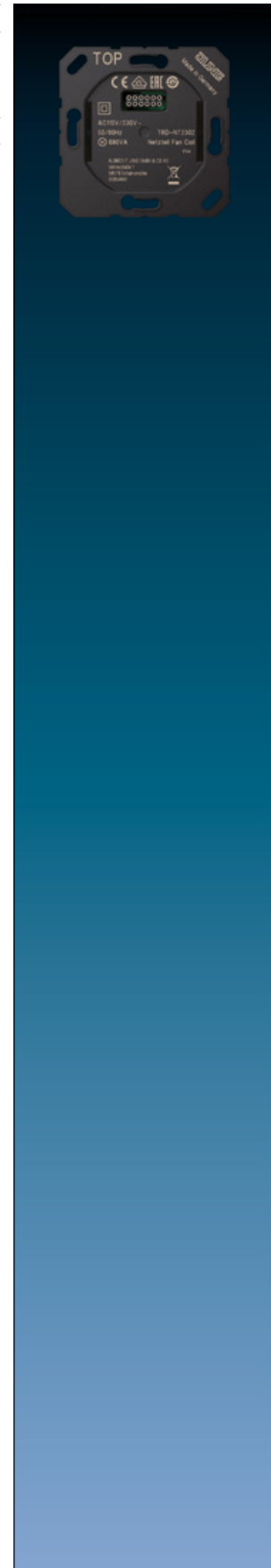
Power supply

for temperature controller fan coil (2-pipe) ref.-no.: TRD ..23028 ..
(Spare part)

TRD-NT 2302

Technical data

Rated voltage:	AC 110 ... 230 V ~
Mains frequency:	50/60 Hz
Switching output	
Contact type:	μ
Output current:	max. 3 A
Switching capacity	
Motors (230 V):	690 VA
Motors (110 V):	300 VA
Outputs for valve drives	
Contact type:	semiconductor (triac), ε
Switching current:	max. 250 mA
Storing temperature:	-5 ... +45 °C
Transport temperature:	-25 ... +70 °C
Ambient temperature:	-5 ... +45 °C
Relative humidity:	5 ... 95 % (no condensation)
Connection mode:	screw terminals
single wire:	1.5 mm ²
stranded with ferrule:	1.5 mm ²



Temperature Management

Ref.-no.

Temperature controller fan coil, 4-pipe

Intended use

- Switching and operating electrical fan coil units with electrothermically actuated heating/cooling valves
- Measurement and feedback control of the room temperature
- Installation in flush box according to EN 60670-1 (recommendation: deep box)

Product characteristics

- Connection of one fan coil unit with up to 3 fan speeds
- Heating and/or cooling mode
- Real glass front panel
- 8 capacitive sensor buttons
- Internal temperature sensor
- Room temperature controller function
- Preselection of the current energy level through the option of 5 temperature profiles for use in hotels or similar sites
- Display for indication of actual temperature (°C or °F), fan speed, operating mode/profile
- Menu levels blockable
- 1 status LED (red/green/blue)
- Display brightness and contrast adjustable
- Duration of the display illumination up to 120 seconds
- Satellite input for connection of key card holder

Technical data

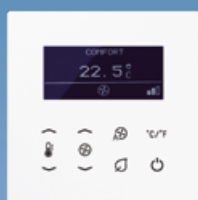
Rated voltage:	AC 110 ... 230 V ~
Mains frequency:	50/60 Hz
Switching output	
Contact type:	μ
Output current:	max. 3 A
Switching capacity	
Motors (230 V):	690 VA
Motors (110 V):	300 VA
Outputs for valve drives	
Contact type:	semiconductor (triac), ε
Switching current:	max. 250 mA
Storing temperature:	-5 ... +45 °C
Transport temperature:	-25 ... +70 °C
Ambient temperature:	-5 ... +45 °C
Relative humidity:	5 ... 95 % (no condensation)
Connection mode:	screw terminals
single wire:	1.5 mm ²
stranded with ferrule:	1.5 mm ²

for AS and A ranges

white	TRD A 523048 WW
black	TRD A 523048 SW

for LS range

white	TRD LS 923048 WW
black	TRD LS 923048 SW



Ref.-no.

Power supply

for temperature controller fan coil (4-pipe) ref.-no.: TRD ..23048 ..
(Spare part)

TRD-NT 2304

Technical data

Rated voltage:	AC 110 ... 230 V ~
Mains frequency:	50/60 Hz
Switching output	
Contact type:	μ
Output current:	max. 3 A
Switching capacity	
Motors (230 V):	690 VA
Motors (110 V):	300 VA
Outputs for valve drives	
Contact type:	semiconductor (triac), ε
Switching current:	max. 250 mA
Storing temperature:	-5 ... +45 °C
Transport temperature:	-25 ... +70 °C
Ambient temperature:	-5 ... +45 °C
Relative humidity:	5 ... 95 % (no condensation)
Connection mode:	screw terminals
single wire:	1.5 mm ²
stranded with ferrule:	1.5 mm ²

Display

for temperature controller fan coil ref.-no.: TRD ..230..
(Spare part)

for AS and A ranges

white	TRD A-DISP WW
black	TRD A-DISP SW

for LS range

white	TRD LS-DISP WW
black	TRD LS-DISP SW



Humidistat

Intended use

The hygrostat regulates the humidity of the air in order to create a healthy room climate. This helps to prevent damage from mould and mildew.

- Measurement of air humidity in rooms
- Control of 230 V heating and ventilation appliances
- Installation in flush box according to EN 60670-1

Product characteristics

- Measurement of room temperature and air humidity to determine the optimal content of moisture in the air
- Control of heating and ventilation appliances for the removal of moisture in rooms
- Manual control range approx. 20 ... 95 % or fixed value of 60 % relative humidity
- Control knob for manual adjustment of the setpoint
- Modes of operation: automatic, manual, party, standby
- Status LED
- Time-controlled continuous operation

Function

The humidistat uses an integrated sensor to measure the moisture and temperature in the room. If the humidity exceeds a value set previously on the knob on the humidistat, a connected device is activated to dehumidify the room.

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50/60 Hz
Ambient temperature:	0 ... +45 °C
Storing temperature:	-20 ... +70 °C
Storage humidity:	20 ... 60 % relative humidity (r. h.)
Contact:	floating NO contact
Contact type:	μ
Switching voltage AC:	max. 230 V
Switching current AC1 (cos φ > 0.8):	15 mA ... 8 A
Switching current AC3 (cos φ < 0.8):	15 mA ... 4 A
Motors:	15 mA ... 4 A
Switching voltage DC:	max. 24 V
Switching current DC:	15 mA ... 8 A
Control range:	20 ... 95 % relative humidity (r. h.)
Measuring tolerance:	± 5 % r. h.
Switching difference:	± 2 %
Length of output cable (≥ 1.5 mm ²):	max. 100 m
Connection mode:	screw terminals
Terminals for:	2.5 mm ²
Mounting height:	approx. 1.5 m

Ref.-no.

Humidistat

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	A 5201 HYG
white	A 5201 HYG WW
black	A 5201 HYG SW

Thermoplastic (breakproof) lacquered

aluminium	A 5201 HYG AL
champagne	A 5201 HYG CH
mocha	A 5201 HYG MO

matt lacquered

matt anthracite	A 5201 HYG ANM
-----------------	----------------

for CD range

Thermoplastic (breakproof) high-gloss

ivory	CD 5201 HYG
white	CD 5201 HYG WW
grey	CD 5201 HYG GR
light grey	CD 5201 HYG LG

for LS range

Thermoplastic (breakproof) high-gloss

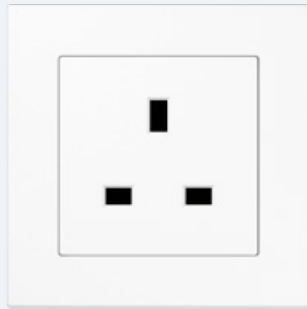
ivory	LS 5201 HYG
white	LS 5201 HYG WW
black	LS 5201 HYG SW

metal versions

aluminium	AL 5201 HYG
stainless steel	ES 5201 HYG
anthracite (aluminium lacquered)	AL 5201 HYG AN

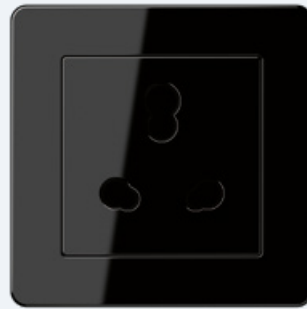


BRITISH STANDARD SOCKET 13 A



in A 550 in white

BRITISH STANDARD SOCKET 5 A



in A FLOW in black

BRITISH STANDARD 2-GANG SOCKET 13 A, SWITCHABLE WITH INDICATOR LAMP



in LS DESIGN in stainless steel

JUNG provides British Standard components for typical BS wall boxes. The elaborated modular system enables the simple installation of cover, socket and design frame in a 1-gang or 2-gang version. High quality materials in the LS ranges or the full plate version achieve an elegant view.

British range



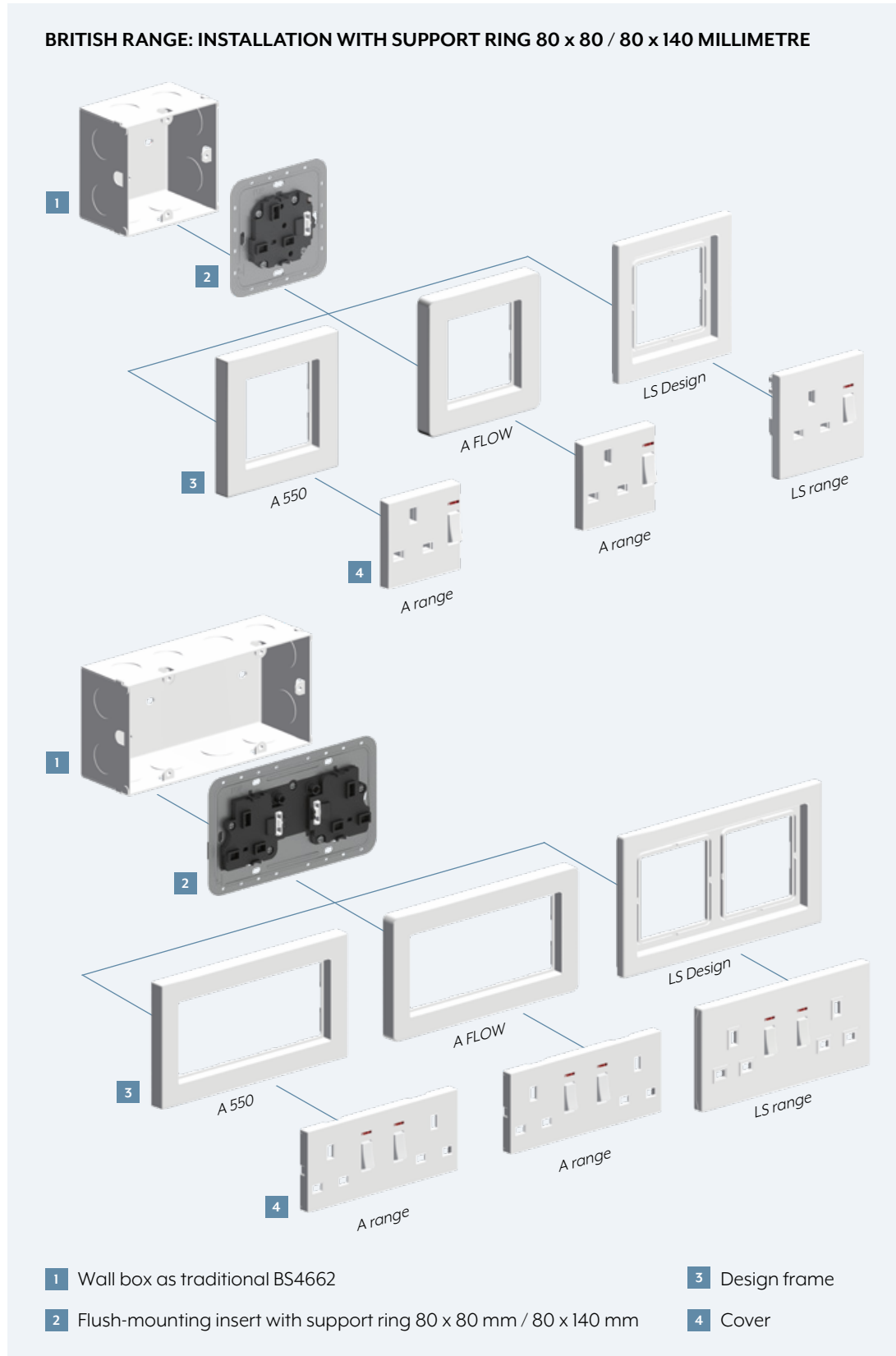
BRITISH STANDARD SOCKET 13 A IN LS DESIGN IN CLASSIC BRASS

The covers without visible screws compose a plane appearance. The British Standard sockets are available in all LS metal finishes and of course in duroplastic material in ivory, white and black.

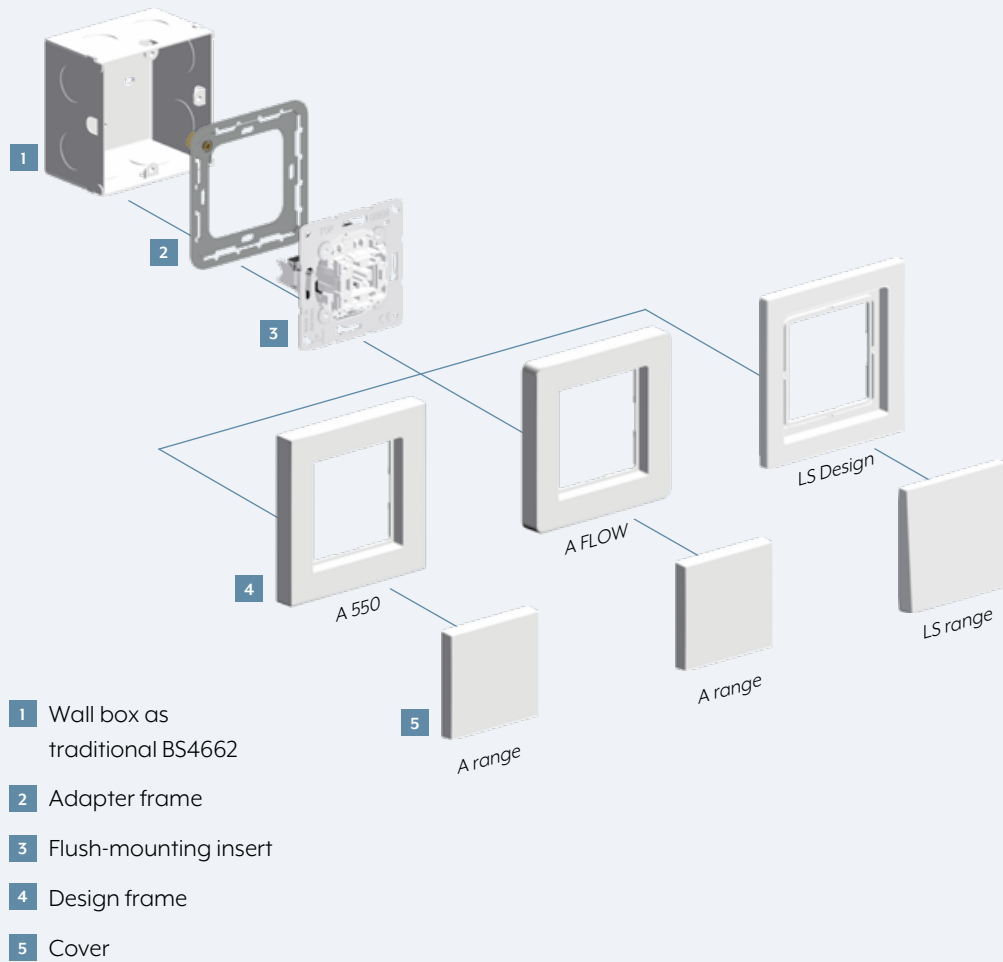
SOCKET INSTALLATION

Sockets are the basis of every electrical installation. For a smooth and fast installation, JUNG supplies British sockets from the factory with the appropriate support ring.

For the installation of a 2-gang wall box in the British system, JUNG offers various 2-gang sockets with a large support ring. In combination with the design frames from the JUNG A 550, A FLOW and LS Design, the electrical installation is given a high-quality appearance.



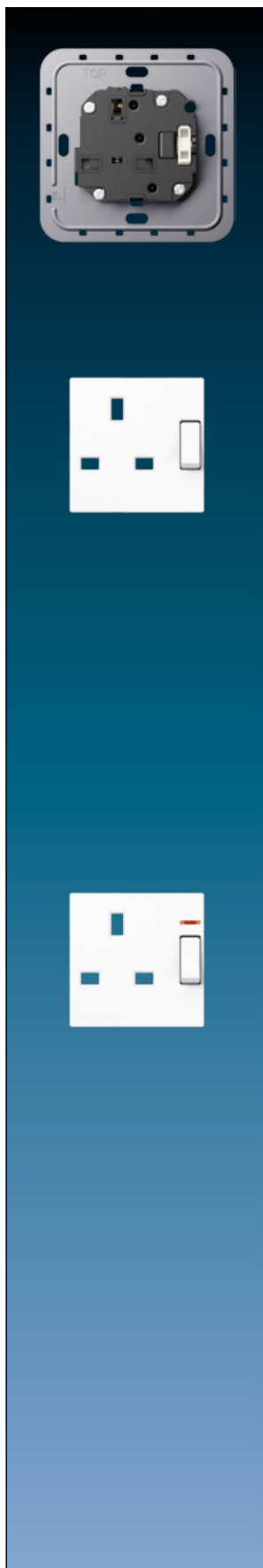
INSTALLATION WITH SUPPORT RING 71 x 71 MILLIMETRE AND ADAPTER FRAME



Combining JUNG products with the adapter frame

Ideal for renovations: JUNG technology with adapter frame. With this method, installers can install versatile building technology, without extensive restoration work or a reconfiguration of the electrical installation under the plaster.

Installation for British Standard wall boxes



Ref.-no.

Switched socket insert British Standard 1363 for rectangular British Standard wall boxes

Screw terminals for wires up to 4 mm²

1-gang

2-pole, 13 A 250 V ~

without indicator light

BS 2171 EINS

with indicator light

BS 2171 KO EINS

The inserts enable the flush installation into rectangular British Standard wall boxes.

Combinations with other devices into multiple frames are NOT possible.

Centre plates for A 550 / A FLOW

Centre plate

for socket insert ref.-no. BS 2171 EINS

only in combination with frames ref.-no. A 5581 ..., AF 581 ..

Duroplastic (scratch-proof) glossy

ivory

A 3171 PL

white

A 3171 WW PL

black

A 3171 SW PL

Duroplastic lacquered

aluminium

A 3171 AL PL

champagne

A 3171 CH PL

mocha

A 3171 MO PL

Thermoplastic (breakproof) high-gloss

white

A 3171 BF WW PL

black

A 3171 BF SW PL

matt lacquered

matt snow white

A 3171 BF WWM PL

matt graphite black

A 3171 BF SWM PL

matt anthracite

A 3171 BF ANM PL

Centre plate

for socket insert ref.-no. BS 2171 KO EINS

only in combination with frames ref.-no. A 5581 ..., AF 581 ..

Duroplastic (scratch-proof) glossy

ivory

A 3171 KO PL

white

A 3171 KO WW PL

black

A 3171 KO SW PL

Duroplastic lacquered

aluminium

A 3171 KO AL PL

champagne

A 3171 KO CH PL

mocha

A 3171 KO MO PL

Thermoplastic (breakproof) high-gloss

white

A 3171 BFKO WW PL

black

A 3171 BFKO SW PL

matt lacquered

matt snow white

A 3171 BFKO WWM PL

matt graphite black

A 3171 BFKO SWM PL

matt anthracite

A 3171 BFKO ANM PL

Installation for British Standard wall boxes

Ref.-no.

Centre plates for LS DESIGN (special BS frame)

Centre plate

for socket insert ref.-no. BS 2171 EINS

only in combination with frames ref.-no. BS 2181 ..

Duroplastic (scratch-proof) glossy

ivory	BS 2171 PL
white	BS 2171 WW PL
black	BS 2171 SW PL

matt lacquered

matt snow white	BS 2171 WWM PL
matt graphite black	BS 2171 SWM PL

metal versions

aluminium	BS 2171 AL PL
stainless steel	BS 2171 ES PL
anthracite (aluminium lacquered)	BS 2171 AN PL
dark (aluminium lacquered)	BS 2171 ALD PL
chrome	BS 2171 GCR PL
gold-coloured	BS 2171 GO PL
classic brass	BS 2171 MEC PL
antique brass	BS 2171 MEAT PL

Centre plate

for socket insert ref.-no. BS 2171 KO EINS

only in combination with frames ref.-no. BS 2181 ..

Duroplastic (scratch-proof) glossy

ivory	BS 2171 KO PL
white	BS 2171 KO WW PL
black	BS 2171 KO SW PL

matt lacquered

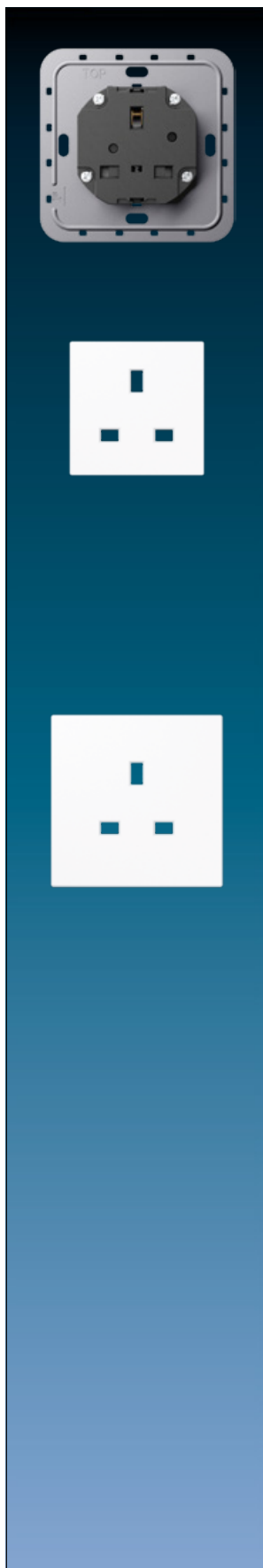
matt snow white	BS 2171 KO WWM PL
matt graphite black	BS 2171 KO SWM PL

metal versions

aluminium	BS 2171 KO AL PL
stainless steel	BS 2171 KO ES PL
anthracite (aluminium lacquered)	BS 2171 KO AN PL
dark (aluminium lacquered)	BS 2171 KO ALD PL
chrome	BS 2171 KO GCR PL
gold-coloured	BS 2171 KO GO PL
classic brass	BS 2171 KO MEC PL
antique brass	BS 2171 KO MEAT PL



Installation for British Standard wall boxes



Ref.-no.

Socket insert British Standard 1363 for rectangular British Standard wall boxes

Screw terminals for wires up to 4 mm²

1-gang

2-pole, 13 A 250 V ~

without switch

BS 2521 EINS

The inserts enable the flush installation into rectangular British Standard wall boxes.
Combinations with other devices into multiple frames are NOT possible.

Centre plates for A 550 / A FLOW

Centre plate

for socket insert ref.-no. BS 2521 EINS

only in combination with frames ref.-no. A 5581 .., AF 581 ..

Duroplastic (scratch-proof) glossy

ivory	A 3521 PL
white	A 3521 WW PL
black	A 3521 SW PL

Duroplastic lacquered

aluminium	A 3521 AL PL
champagne	A 3521 CH PL
mocha	A 3521 MO PL

Centre plates for LS DESIGN (special BS frame)

Centre plate

for socket insert ref.-no. BS 2521 EINS

only in combination with frames ref.-no. BS 2181 ..

Duroplastic (scratch-proof) glossy

ivory	BS 2521 PL
white	BS 2521 WW PL
light grey	BS 2521 LG PL
black	BS 2521 SW PL

matt lacquered

matt snow white	BS 2521 WWM PL
matt graphite black	BS 2521 SWM PL

metal versions

aluminium	BS 2521 AL PL
stainless steel	BS 2521 ES PL
anthracite (aluminium lacquered)	BS 2521 AN PL
dark (aluminium lacquered)	BS 2521 ALD PL
chrome	BS 2521 GCR PL
gold-coloured	BS 2521 GO PL
classic brass	BS 2521 MEC PL
antique brass	BS 2521 MEAT PL

Installation for British Standard wall boxes

Ref.-no.

Switched socket insert British Standard 1363 for rectangular British Standard wall boxes

Screw terminals for wires up to 4 mm²

2-gang

2-pole, 13 A 250 V ~

without indicator light

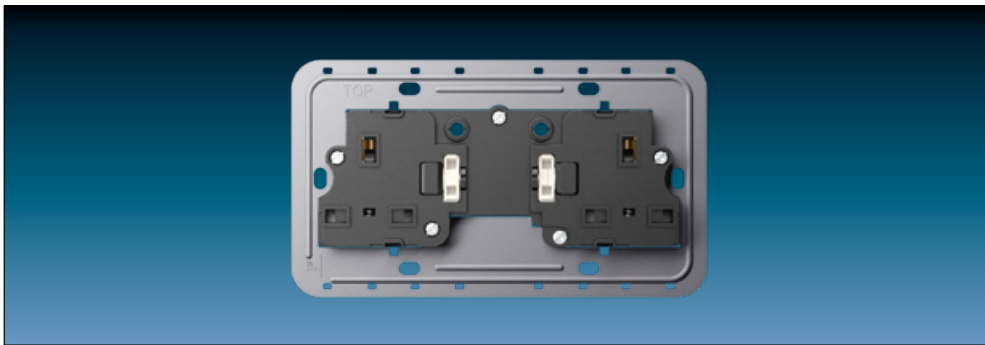
BS 2172 EINS

with indicator light

BS 2172 KO EINS

The inserts enable the flush installation into rectangular British Standard wall boxes.

Combinations with other devices into multiple frames are NOT possible.



Centre plates for A 550 / A FLOW

Centre plate

for socket insert ref.-no. BS 2172 EINS

only in combination with 2-gang frames ref.-no. A 5582-0 .., AF 582-0 ..

Thermoplastic (breakproof) high-gloss

white

A 2172 WW PL

black

A 2172 SW PL

Thermoplastic (breakproof) lacquered

aluminium

A 2172 AL PL

matt lacquered

matt snow white

A 2172 WWM PL

matt graphite black

A 2172 SWM PL

matt anthracite

A 2172 ANM PL



Installation for British Standard wall boxes

Ref.-no.

Centre plates for A 550 / A FLOW

Centre plate

for socket insert ref.-no. BS 2172 KO EINS

only in combination with 2-gang frames ref.-no. A 5582-0 ..., AF 582-0 ..

Thermoplastic (breakproof) high-gloss

white

A 2172 KO WW PL

black

A 2172 KO SW PL

Thermoplastic (breakproof) lacquered

aluminium

A 2172 KO AL PL

matt lacquered

matt snow white

A 2172 KO WWM PL

matt graphite black

A 2172 KO SWM PL

matt anthracite

A 2172 KO ANM PL



Installation for British Standard wall boxes

Ref.-no.

Centre plates for LS DESIGN (special BS frame)

Centre plate

for socket insert ref.-no. BS 2172 EINS

only in combination with 2-gang frames ref.-no. BS 2182 ..

Duroplastic (scratch-proof) glossy

ivory	BS 2172 PL
white	BS 2172 WW PL
black	BS 2172 SW PL

matt lacquered

matt snow white	BS 2172 WWM PL
matt graphite black	BS 2172 SWM PL

metal versions

aluminium	BS 2172 AL PL
stainless steel	BS 2172 ES PL
anthracite (aluminium lacquered)	BS 2172 AN PL
dark (aluminium lacquered)	BS 2172 ALD PL
chrome	BS 2172 GCR PL
gold-coloured	BS 2172 GO PL
classic brass	BS 2172 MEC PL
antique brass	BS 2172 MEAT PL



Installation for British Standard wall boxes

Ref.-no.

Centre plates for LS DESIGN (special BS frame)

Centre plate

for socket insert ref.-no. BS 2172 KO EINS

only in combination with 2-gang frames ref.-no. BS 2182 ..

Duroplastic (scratch-proof) glossy

ivory	BS 2172 KO PL
white	BS 2172 KO WW PL
black	BS 2172 KO SW PL

matt lacquered

matt snow white	BS 2172 KO WWM PL
matt graphite black	BS 2172 KO SWM PL

metal versions

aluminium	BS 2172 KO AL PL
stainless steel	BS 2172 KO ES PL
anthracite (aluminium lacquered)	BS 2172 KO AN PL
dark (aluminium lacquered)	BS 2172 KO ALD PL
chrome	BS 2172 KO GCR PL
gold-coloured	BS 2172 KO GO PL
classic brass	BS 2172 KO MEC PL
antique brass	BS 2172 KO MEAT PL



Installation for British Standard wall boxes

Ref.-no.

Socket insert British Standard 1363 for rectangular British Standard wall boxes

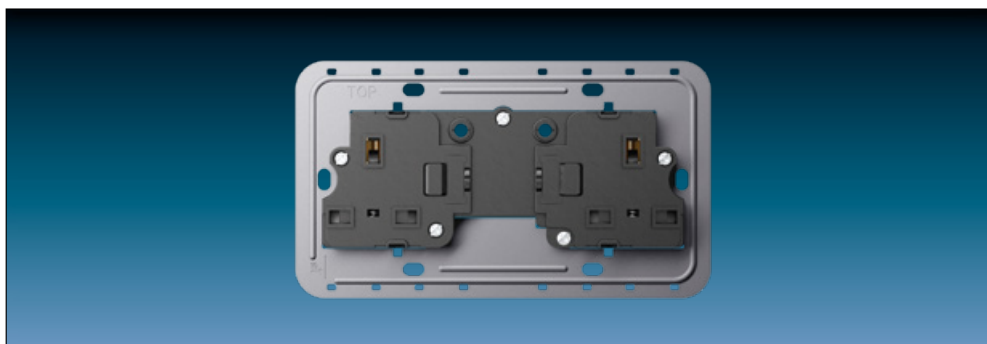
2-gang
Screw terminals for wires up to 4 mm²

2-pole, 13 A 250 V ~

without switch

BS 2522 EINS

The inserts enable the flush installation into rectangular British Standard wall boxes.
Combinations with other devices into multiple frames are NOT possible.



Centre plates for LS DESIGN (special BS frame)

Centre plate

for socket insert ref.-no. BS 2522 EINS
only in combination with 2-gang frames ref.-no. BS 2182 ..

Duroplastic (scratch-proof) glossy

ivory	BS 2522 PL
white	BS 2522 WW PL
black	BS 2522 SW PL

matt lacquered

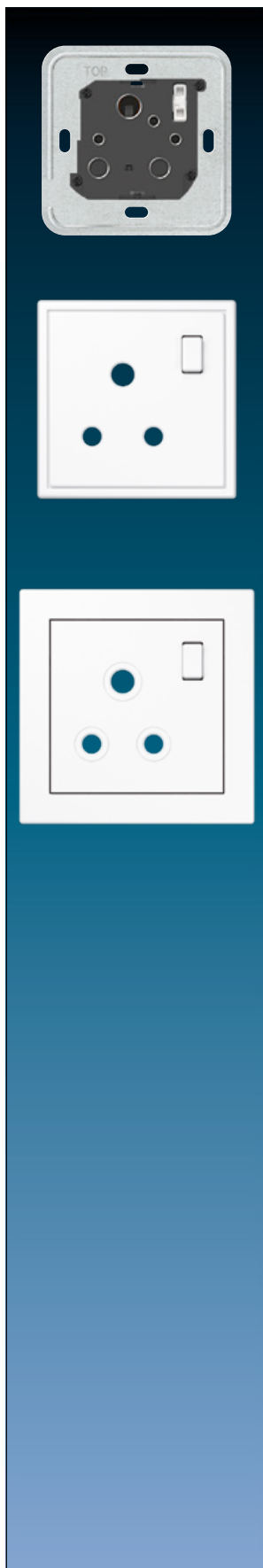
matt snow white	BS 2522 WWM PL
matt graphite black	BS 2522 SWM PL

metal versions

aluminium	BS 2522 AL PL
stainless steel	BS 2522 ES PL
anthracite (aluminium lacquered)	BS 2522 AN PL
dark (aluminium lacquered)	BS 2522 ALD PL
chrome	BS 2522 GCR PL
gold-coloured	BS 2522 GO PL
classic brass	BS 2522 MEC PL
antique brass	BS 2522 MEAT PL



Installation for British Standard wall boxes



Ref.-no.

Switched socket insert British Standard 546 for rectangular British Standard wall boxes

Screw terminals for wires up to 4 mm²

2-pole, 15 A 250 V ~

only in combination with full plates ref.-no. BS 2171-15 V .. PL or 2971-15 V .. PL

BS 2171-15 EINS

The inserts enable the flush installation into rectangular British Standard wall boxes.
Combinations with other devices into multiple frames are NOT possible.

Full plate

for socket insert ref.-no. BS 2171-15 EINS
with integrated frame in the shape of LS 990

Duroplastic (scratch-proof) glossy

ivory
white
black

BS 2971-15 V PL

BS 2971-15 V WW PL

BS 2971-15 V SW PL

Full plate

for socket insert ref.-no. BS 2171-15 EINS
including British Standard 1-gang frame ref.-no. BS 2181 ..

Thermoplastic (breakproof) lacquered

ivory
white
black

BS 2171-15 V PL-L

BS 2171-15 V WW PL-L

BS 2171-15 V SW PL-L

metal versions

aluminium
stainless steel
anthracite (aluminium lacquered)
dark (aluminium lacquered)
chrome
gold-coloured
classic brass
antique brass

BS 2171-15 V AL PL

BS 2171-15 V ES PL

BS 2171-15 V AN PL

BS 2171-15 V ALD PL

BS 2171-15 V GCR PL

BS 2171-15 V GO PL

BS 2171-15 V MEC PL

BS 2171-15 V MEAT PL

Installation for British Standard wall boxes

Ref.-no.

Socket insert British Standard 546 for rectangular British Standard wall boxes

Screw terminals for wires up to 4 mm²

2-pole, 5 A 250 V ~

BS 2171-5 EINS

The inserts enable the flush installation into rectangular British Standard wall boxes.
Combinations with other devices into multiple frames are NOT possible.

Centre plates for A 550 / A FLOW

Centre plate

for socket insert ref.-no. BS 2171-5 EINS

only in combination with frames ref.-no. A 5581 ..., AF 581 ..

Duroplastic (scratch-proof) glossy

ivory	A 3171-5 PL
white	A 3171-5 WW PL
black	A 3171-5 SW PL

Duroplastic lacquered

aluminium	A 3171-5 AL PL
champagne	A 3171-5 CH PL
mocha	A 3171-5 MO PL

Thermoplastic (breakproof) high-gloss

white	A 3171-5 BF WW PL
-------	--------------------------

matt lacquered

matt snow white	A 3171-5 WWM PL
matt graphite black	A 3171-5 SWM PL
matt anthracite	A 3171-5 BF ANM PL

Centre plates for LS DESIGN (special BS frame)

Centre plate

for socket insert ref.-no. BS 2171-5 EINS

only in combination with frames ref.-no. BS 2181 ..

Duroplastic (scratch-proof) glossy

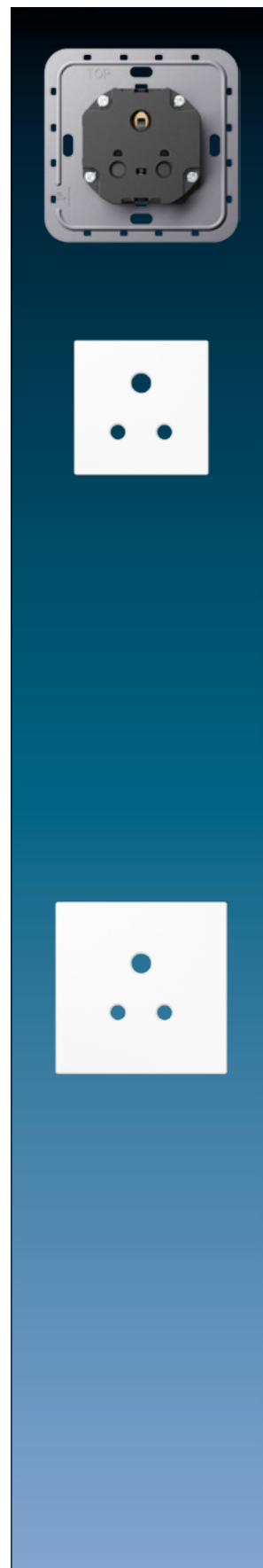
ivory	BS 2171-5 PL
white	BS 2171-5 WW PL
black	BS 2171-5 SW PL

matt lacquered

matt snow white	BS 2171-5 WWM PL
matt graphite black	BS 2171-5 SWM PL

metal versions

aluminium	BS 2171-5 AL PL
stainless steel	BS 2171-5 ES PL
anthracite (aluminium lacquered)	BS 2171-5 AN PL
dark (aluminium lacquered)	BS 2171-5 ALD PL
chrome	BS 2171-5 GCR PL
gold-coloured	BS 2171-5 GO PL
classic brass	BS 2171-5 MEC PL
antique brass	BS 2171-5 MEAT PL



Installation for British Standard wall boxes



Ref.-no.

Switched cable unit with fuse for rectangular British Standard wall boxes

1-gang
with indicator light
Screw terminals for wires up to 4 mm²
2-pole, 13 A 250 V ~

BS 2190 CU KO EINS

The inserts enable the flush installation into rectangular British Standard wall boxes.
Combinations with other devices into multiple frames are NOT possible.

Centre plates for A 550 / A FLOW

Centre plate

for switched cable unit ref.-no. BS 2190 CU KO EINS
only in combination with frames ref.-no. A 5581 ..., AF 581 ..

ivory	A 3190 CU KO PL
white	A 3190 CU KO WW PL
black	A 3190 CU KO SW PL
aluminium	A 3190 CU KO AL PL
champagne	A 3190 CU KO CH PL
mocha	A 3190 CU KO MO PL

Centre plates for LS DESIGN (special BS frame)

Centre plate

for switched cable unit ref.-no. BS 2190 CU KO EINS
only in combination with frames ref.-no. BS 2181 ..

ivory (aluminium lacquered)	BS 2190 CU KO PL
white (aluminium lacquered)	BS 2190 CU KO WW PL
black (aluminium lacquered)	BS 2190 CU KO SW PL

metal versions

aluminium	BS 2190 CU KO AL PL
stainless steel	BS 2190 CU KO ES PL
anthracite (aluminium lacquered)	BS 2190 CU KO AN PL
dark (aluminium lacquered)	BS 2190 CU KO ALD PL
chrome	BS 2190 CU KO GCR PL
gold-coloured	BS 2190 CU KO GO PL
classic brass	BS 2190 CU KO MEC PL
antique brass	BS 2190 CU KO MEAT PL

Installation for British Standard wall boxes

Ref.-no.

Switched socket insert, type G + I
13 A 250 V ~
for rectangular British Standard wall boxes
for plugs BS 1363 (type G) and GB 2099-1 (type I)
with enhanced contact protection (shutter)
Screw terminals for wires up to 4 mm²

GI 2171 SW EINS

The inserts enable the flush installation into rectangular British Standard wall boxes.
Combinations with other devices into multiple frames are NOT possible.

Centre plate

for socket insert ref.-no. GI 2171 SW EINS
only in combination with frames ref.-no. BS 2181 ..

Duroplastic (scratch-proof) glossy

ivory	LS 4171 GI SW PL
white	LS 4171 GI SW WW PL
black	LS 4171 GI SW SW PL

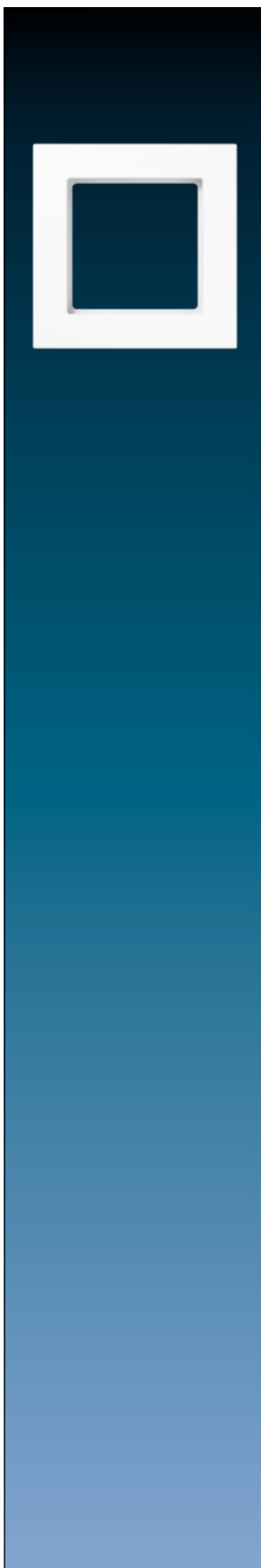
matt lacquered

matt snow white	LS 4171 GI SW WWM PL
matt graphite black	LS 4171 GI SW SWM PL

other colours on request



Installation for British Standard wall boxes



Ref.-no.

Frames A 550

Only in combination with new British Standard inserts (supporting frame with special holes) and British Standard centre plates of the A range (ref.-no.: A 3171 .. PL, A 3521 .. PL, A 3190 CU KO .. PL, A 2172 .. PL).

Frame, 1-gang

for inserts ref.-no. BS 2171..EINS, BS 2521 EINS, BS 2190 CU KO EINS



white

1-gang	85 x 85 mm	 A 5581 BF WW
--------	------------	---

black

1-gang	85 x 85 mm	 A 5581 BF SW
--------	------------	---

aluminium

1-gang	85 x 85 mm	  A 5581 BF AL
--------	------------	---

matt snow white

1-gang	85 x 85 mm	A 5581 BF WWM
--------	------------	----------------------

matt graphite black

1-gang	85 x 85 mm	A 5581 BF SWM
--------	------------	----------------------

matt anthracite

1-gang	85 x 85 mm	A 5581 BF ANM
--------	------------	----------------------


Frame, 2-gang without crossbar

for socket inserts ref.-no. BS 2172 EINS, BS 2172 KO EINS



white

2-gang	85 x 156 mm	 A 5582-0 BF WW
--------	-------------	---

black

2-gang	85 x 156 mm	 A 5582-0 BF SW
--------	-------------	---

aluminium

2-gang	85 x 156 mm	  A 5582-0 BF AL
--------	-------------	---

matt snow white

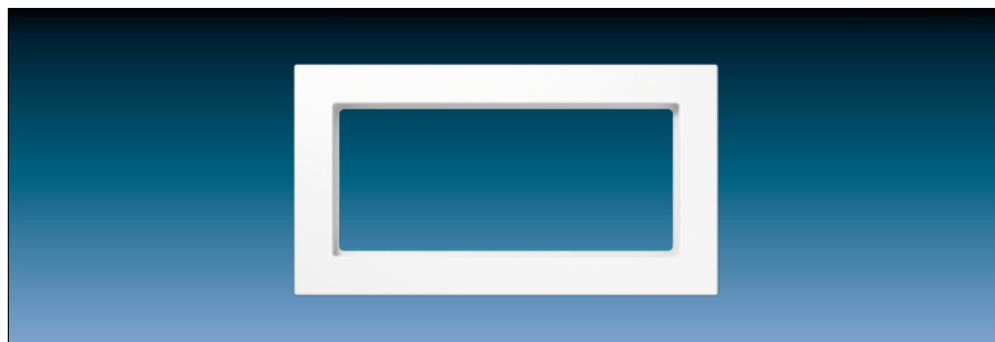
2-gang	85 x 156 mm	A 5582-0 BF WWM
--------	-------------	------------------------

matt graphite black

2-gang	85 x 156 mm	A 5582-0 BF SWM
--------	-------------	------------------------

matt anthracite

2-gang	85 x 156 mm	A 5582-0 BF ANM
--------	-------------	------------------------



Installation for British Standard wall boxes

Ref.-no.

Frames A FLOW

Only in combination with new British Standard inserts (supporting frame with special holes) and British Standard centre plates of the A range (ref.-no.: A 3171 .. PL, A 3521 .. PL, A 3190 CU KO .. PL, A 2172 .. PL).

Frame, 1-gang

for inserts ref.-no. BS 2171..EINS, BS 2521 EINS, BS 2190 CU KO EINS


white

1-gang	85 x 85 mm	 AF 581 BF WW
--------	------------	---

black

1-gang	85 x 85 mm	 AF 581 BF SW
--------	------------	---

aluminium

1-gang	85 x 85 mm	 AF 581 BF AL
--------	------------	---

matt snow white

1-gang	85 x 85 mm	AF 581 BF WWM
--------	------------	----------------------

matt graphite black

1-gang	85 x 85 mm	AF 581 BF SWM
--------	------------	----------------------

matt anthracite

1-gang	85 x 85 mm	AF 581 BF ANM
--------	------------	----------------------

Frame, 2-gang without crossbar

for socket inserts ref.-no. BS 2172 EINS, BS 2172 KO EINS

white

2-gang	85 x 156 mm	 AF 582-0 BF WW
--------	-------------	---

black

2-gang	85 x 156 mm	 AF 582-0 BF SW
--------	-------------	---

aluminium

2-gang	85 x 156 mm	 AF 582-0 BF AL
--------	-------------	---

matt snow white

2-gang	85 x 156 mm	AF 582-0 BF WWM
--------	-------------	------------------------

matt graphite black

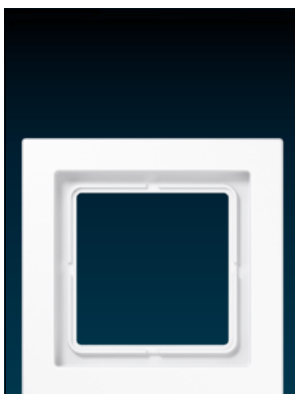
2-gang	85 x 156 mm	AF 582-0 BF SWM
--------	-------------	------------------------

matt anthracite

2-gang	85 x 156 mm	AF 582-0 BF ANM
--------	-------------	------------------------



Installation for British Standard wall boxes



Ref.-no.

Frames LS DESIGN (special BS frames)

Frames suitable for British products (use compatible supporting frame)

Frame, 1-gang

for British products (with supporting frame 80 x 80)

Thermoplastic (breakproof) high-gloss

ivory	BS 2181
white	BS 2181 WW
black	BS 2181 SW

metal versions

aluminium	BS 2181 AL
dark (aluminium lacquered)	BS 2181 ALD
stainless steel	BS 2181 ES
anthracite (aluminium lacquered)	BS 2181 AN
chrome	BS 2181 GCR
gold-coloured	BS 2181 GO
classic brass	BS 2181 MEC
antique brass	BS 2181 MEAT

Frame, 2-gang

for socket inserts ref.-no. BS 2172 EINS, BS 2172 KO EINS, BS 2522 EINS

Thermoplastic (breakproof) high-gloss

ivory	BS 2182
white	BS 2182 WW
black	BS 2182 SW

metal versions

aluminium	BS 2182 AL
dark (aluminium lacquered)	BS 2182 ALD
stainless steel	BS 2182 ES
anthracite (aluminium lacquered)	BS 2182 AN
chrome	BS 2182 GCR
gold-coloured	BS 2182 GO
classic brass	BS 2182 MEC
antique brass	BS 2182 MEAT



Installation for British Standard wall boxes

Ref.-no.

1-gang switch British Standard

2-pole, 45 A 250 V ~

screw terminals for wires up to 6 mm²

for rectangular British Standard wall boxes

no frame required

white

BS 702-45 U WW

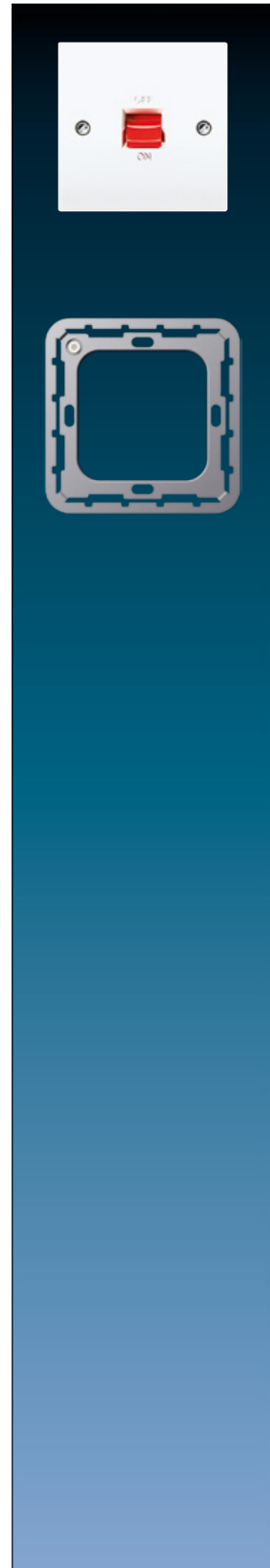
The inserts enable the flush installation into rectangular British Standard wall boxes.

Combinations with other devices into multiple frames are NOT possible.

Adapter frame

The frame enables the installation of various JUNG inserts into BS wall boxes.

BS 1980 APM



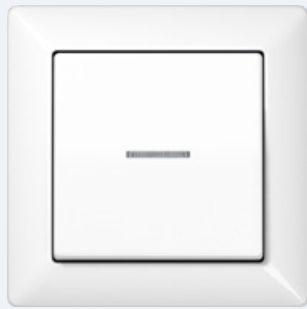


AS range

The proven standard when it comes to form and function: In addition to the harmonious lines of the AS range, the diffraction of the rocker surface creates a slight optical accent. The bright colours of white and ivory underline the stringent design.



AS range



Push-button with lens in white



SCHUKO® socket "antibacterial" in white



Push-button sensor, 4-gang, in ivory





"Antibacterial" rotary dimmer in ivory

The wide product palette of the AS range completely meets the requirements of private and commercial construction; thanks to an antibacterial material finish, it also meets the special hygiene requirements, e.g. in clinics. The comprehensive range of applications includes all the technical possibilities of a modern, future-proof electrical installation.



In addition to the AS 500 in Duroplastic, the unbreakable AS 500 in thermoplastic is available as an alternative. In the same design and with the same selection of colours, but made of unbreakable material, it provides, among other things, a splash-proof IP 44 version.

Colours and materials



Duroplastic (scratch-proof), glossy

ivory	similar to RAL 1013	
white	similar to RAL 9016	






Thermoplastic (breakproof) high-gloss

ivory	similar to RAL 1013	
white	similar to RAL 9016	

Duroplastic, antibacterial

ivory	similar to RAL 1013	
white	similar to RAL 9010	

Selected items are also available in other colours

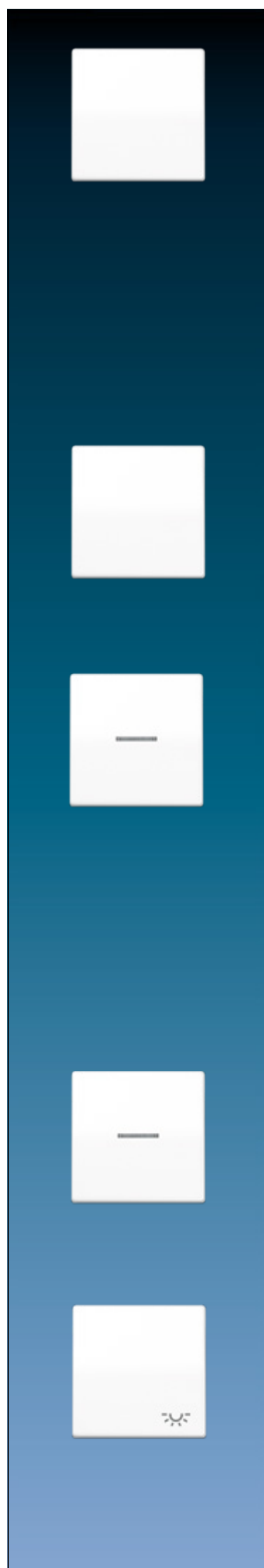
blue	similar to RAL 5013	
green	similar to RAL 6029	
orange	similar to RAL 2004	
red	similar to RAL 3003	
black	ähnlich RAL 9005	

Covers	344
Sockets	349
LB Management	363
eNet	365
Temperature Management	368
SAT / TV	370
Data connectors	372
Telephone	372

The following products are available in the AS range

Multimedia connection systems	47
USB charger	60
Smart Radio DAB+	76
Hospital installations	94
Door communication	144
F 50	660
F 40	670
F 10	680

AS range



Ref.-no.

1-gang rocker

for switch insert ref.-no.: 501 U, 502 U, 503 U, 506 U, 507 U, 501-20 U, 506-20 U, 507-20 U

for push switch insert ref.-no.: 502 TU, 506 TU, 507 TU

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U

Duroplastic (scratch-proof) glossy

ivory	IP P	AS 591
-------	------	--------

white	IP P	AS 591 WW
-------	------	-----------

Thermoplastic (breakproof) high-gloss

ivory	IP L	AS 591 BF
-------	------	-----------

white	IP L	AS 591 BF WW
-------	------	--------------

red	IP	AS 591 BF RT
-----	----	--------------

Duroplastic (scratch-proof) glossy – antibacterial

ivory	IP	ABAS 591
-------	----	----------

white	IP	ABAS 591 WW
-------	----	-------------

1-gang rocker with screw fixing

for switch insert ref.-no.: 501 U, 502 U, 503 U, 506 U, 507 U, 501-20 U, 506-20 U, 507-20 U

for push switch insert ref.-no.: 502 TU, 506 TU, 507 TU

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U

Thermoplastic (breakproof) high-gloss

ivory	IP L	AS 591 BFS
-------	------	------------

white	IP L	AS 591 BFS WW
-------	------	---------------

For illuminated inserts use rocker with lens ref.-no.: ..KO...

1-gang rocker with lens

for switch insert with indicator light

ref.-no.: 502 KOU, 503 KOU, 506 KOU, 501-20 KOU, 502-20 KOU, 506-20 KOU

for push switch insert with indicator light ref.-no.: 502 KOTU, 506 KOTU

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

Duroplastic (scratch-proof) glossy

ivory	IP P	AS 591 KO5
-------	------	------------

white	IP P	AS 591 KO5 WW
-------	------	---------------

Thermoplastic (breakproof) high-gloss

ivory	IP L	AS 591 KO5BF
-------	------	--------------

white	IP L	AS 591 KO5BF WW
-------	------	-----------------

Duroplastic (scratch-proof) glossy – antibacterial

ivory	IP	ABAS 591 KO5
-------	----	--------------

white	IP	ABAS 591 KO5 WW
-------	----	-----------------

1-gang rocker with lens and screw fixing

for switch insert with indicator light

ref.-no.: 502 KOU, 503 KOU, 506 KOU, 501-20 KOU, 502-20 KOU, 506-20 KOU

for push switch insert with indicator light ref.-no.: 502 KOTU, 506 KOTU

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

Thermoplastic (breakproof) high-gloss

ivory	IP L	AS 591 KO5BFS
-------	------	---------------

white	IP L	AS 591 KO5BFS WW
-------	------	------------------

1-gang rocker with symbol "light"

for switch insert ref.-no.: 501 U, 502 U, 503 U, 506 U, 507 U, 501-20 U, 506-20 U, 507-20 U

for push switch insert ref.-no.: 502 TU, 506 TU, 507 TU

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U

Duroplastic (scratch-proof) glossy

ivory	IP	AS 591 L
-------	----	----------

white	IP	AS 591 L WW
-------	----	-------------

Duroplastic (scratch-proof) glossy – antibacterial

ivory	IP	ABAS 591 L
-------	----	------------

white	IP	ABAS 591 L WW
-------	----	---------------

Ref.-no.

1-gang rocker with symbol "light", with lens

for switch insert with indicator light

ref.-no.: 502 KOU, 503 KOU, 506 KOU, 501-20 KOU, 502-20 KOU, 506-20 KOU

for push switch insert with indicator light ref.-no.: 502 KOTU, 506 KOTU

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

Duroplastic (scratch-proof) glossy

ivory	IP	AS 591 KO5L
white	IP	AS 591 KO5L WW

Duroplastic (scratch-proof) glossy – antibacterial

ivory	IP	ABAS 591 KO5L
white	IP	ABAS 591 KO5L WW

1-gang rocker with symbol "bell"

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U

Duroplastic (scratch-proof) glossy

ivory	IP	AS 591 K
white	IP	AS 591 K WW

Duroplastic (scratch-proof) glossy – antibacterial

ivory	IP	ABAS 591 K
white	IP	ABAS 591 K WW

1-gang rocker with symbol "bell", with lens

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

Duroplastic (scratch-proof) glossy

ivory	IP	AS 591 KO5K
white	IP	AS 591 KO5K WW

Duroplastic (scratch-proof) glossy – antibacterial

ivory	IP	ABAS 591 KO5K
white	IP	ABAS 591 KO5K WW

1-gang rocker with symbol "door"

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U

Duroplastic (scratch-proof) glossy

ivory	IP	AS 591 T
white	IP	AS 591 T WW

Duroplastic (scratch-proof) glossy – antibacterial

ivory	IP	ABAS 591 T
white	IP	ABAS 591 T WW

1-gang rocker with symbol "door", with lens

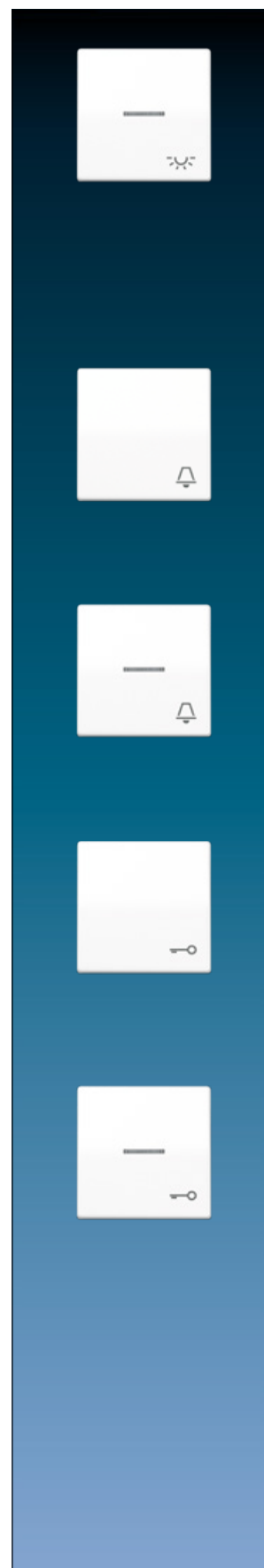
for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

Duroplastic (scratch-proof) glossy

ivory	IP	AS 591 KO5T
white	IP	AS 591 KO5T WW

Duroplastic (scratch-proof) glossy – antibacterial

ivory	IP	ABAS 591 KO5T
white	IP	ABAS 591 KO5T WW



AS range



Ref.-no.

Barrier-free living

1-gang rocker with tactile symbol "light", with lens

for switch insert with indicator light


ref.-no.: 502 KOU, 503 KOU, 506 KOU, 501-20 KOU, 502-20 KOU, 506-20 KOU

for push switch insert with indicator light ref.-no.: 502 KOTU, 506 KOTU

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

Duroplastic (scratch-proof) glossy

ivory   **AS 591 L1K05**

white   **AS 591 L1K05 WW**

Duroplastic (scratch-proof) glossy – antibacterial

ivory  **ABAS 591 L1K05**

white  **ABAS 591 L1K05 WW**

1-gang rocker with tactile symbol "bell", with lens

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

Duroplastic (scratch-proof) glossy

ivory   **AS 591 K1K05**

white   **AS 591 K1K05 WW**

Duroplastic (scratch-proof) glossy – antibacterial

ivory  **ABAS 591 K1K05**

white  **ABAS 591 K1K05 WW**

1-gang rocker with tactile symbol "door", with lens

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

Duroplastic (scratch-proof) glossy

ivory   **AS 591 T1K05**

white   **AS 591 T1K05 WW**

Duroplastic (scratch-proof) glossy – antibacterial

ivory  **ABAS 591 T1K05**

white  **ABAS 591 T1K05 WW**

For improved visibility use frame in contrasting black colour.

1-gang rocker, transparent

for switch insert ref.-no.: 501 U, 502 U, 503 U, 506 U, 507 U, 501-20 U, 506-20 U, 507-20 U

for push switch insert ref.-no.: 502 TU, 506 TU, 507 TU

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U

for individual text or decorative inlets (e.g. wall paper)

Thermoplastic (breakproof) high-gloss

inscription field 50 x 50 mm **A 590 NA GL**

Plastic cover with paper inlay

for inscription field 50 x 50 mm

(Spare part)

Thermoplastic (breakproof) high-gloss

paper inlay white **A 590 NA GL PL**

Holder plate

for frame fixing and 1-gang rocker bearing

(Spare part)

black **AS 90 HP**

Ref.-no.

1-gang rocker with glass plate

with rocker and lens

for all 1-gang switch/push-button inserts (except push switch insert)

(to be used only with frame AS 581.. – AS 585..)

Thermoplastic (breakproof) high-gloss

red	similar RAL 3000	AS 561 GL RT
blue	similar RAL 5015	AS 561 GL BL
yellow	similar RAL 1004	AS 561 GL GE

for the inscription with transparent foil

Glass plate

64 x 53 x 1 mm (W x H x D)	60 GL
----------------------------	--------------

Frame, 1-gang

80.5 x 80.5 mm

Thermoplastic (breakproof) high-gloss

red	similar RAL 3000	AS 581 GL RT
blue	similar RAL 5015	AS 581 GL BL
yellow	similar RAL 1004	AS 581 GL GE

Pull cord switch 10 AX / 250 V ~

for wall and ceiling installation

Screw terminals for wires up to 2.5 mm²

with 50 mm pull cord

Thermoplastic (breakproof) high-gloss

ivory	IP	L	A 506 BF NUZ
white	IP	L	A 506 BF NUZ WW

Other pull cord devices can be realised with pull cord insert 34 KO5 and 1-gang rocker with transparent lens AS 590 KO5 .. or AS 591 KO5 ..

2-gang rocker

for switch insert ref.-no.: 505 U, 509 U

for push switch insert ref.-no.: 505 TU, 509 TU

for push-button insert ref.-no.: 535 U, 539 U

Duroplastic (scratch-proof) glossy

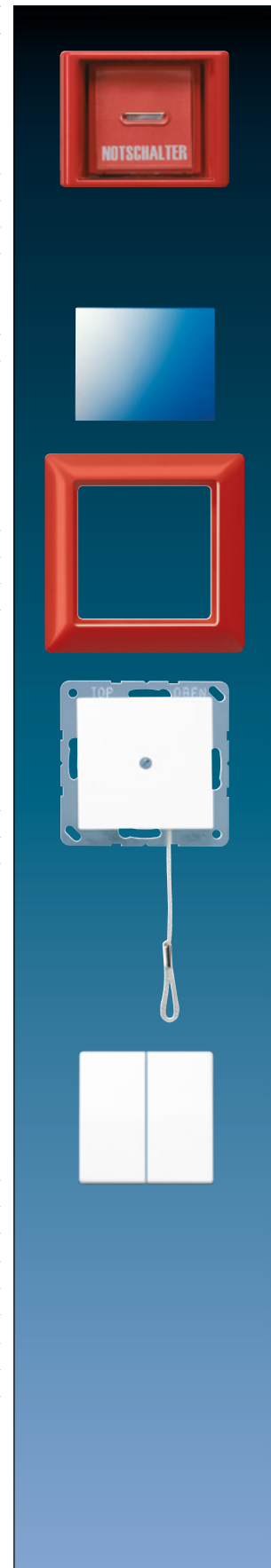
ivory	IP	P	AS 591-5
white	IP	P	AS 591-5 WW

Thermoplastic (breakproof) high-gloss

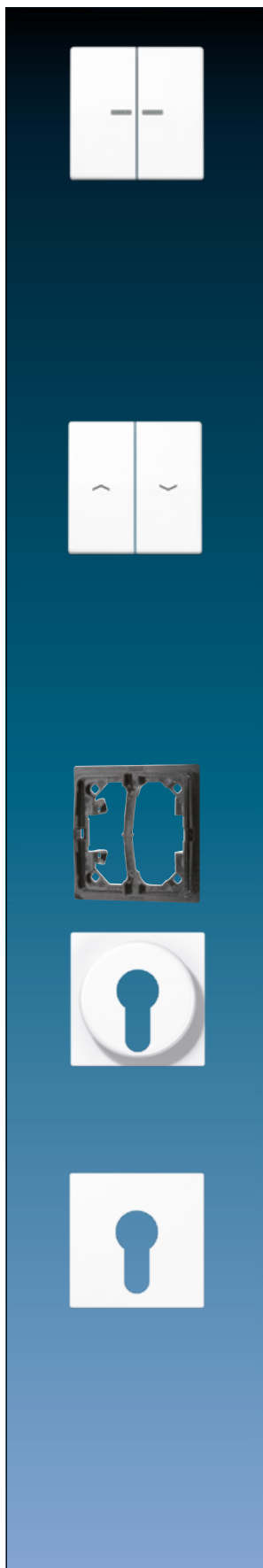
ivory	IP	L	AS 591-5 BF
white	IP	L	AS 591-5 BF WW

Duroplastic (scratch-proof) glossy – antibacterial

ivory	IP	ABAS 591-5
white	IP	ABAS 591-5 WW



AS range



Ref.-no.

2-gang rocker with lens

for switch insert ref.-no.: 505 U 5
for switch insert with indicator light ref.-no.: 505 KOU 5
for push-button insert ref.-no.: 535 U 5

Duroplastic (scratch-proof) glossy

ivory	IP P	AS 591-5 KO5
white	IP P	AS 591-5 KO5 WW

Thermoplastic (breakproof) high-gloss

ivory	IP L	AS 591-5 KO5BF
white	IP L	AS 591-5 KO5BF WW

Duroplastic (scratch-proof) glossy – antibacterial

ivory	IP	ABAS 591-5 KO5
white	IP	ABAS 591-5 KO5 WW

2-gang rocker with arrow symbols

for blind switch insert ref.-no.: 509 VU
for blind push-button insert ref.-no.: 539 VU

Duroplastic (scratch-proof) glossy

ivory	IP	AS 591-5 P
white	IP	AS 591-5 P WW

Thermoplastic (breakproof) high-gloss

ivory	IP	AS 591-5 PBF
white	IP	AS 591-5 PBF WW

Duroplastic (scratch-proof) glossy – antibacterial

ivory	IP	ABAS 591-5 P
white	IP	ABAS 591-5 P WW

Holder plate

for frame fixing and 2-gang rocker bearing
(Spare part)

black	AS 90-5 HP
-------	------------

Centre plate

for key switch inserts ref.-no.: 104.28, 134.18, 134.28, 133.18, 138.18, 106.28
for key switch inserts IP 44 ref.-no.: CD 104.18 WU, CD 134.18 WU, CD 133.18 WU, CD 106.18 WU

Thermoplastic (breakproof) high-gloss

ivory	IP L	A 528 PL
white	IP L	A 528 PL WW

One escutcheon plate with symbols and one without symbols included in delivery.
Height of escutcheon plate: 11 mm

Centre plate

for key switch inserts ref.-no.: 104.15, 134.15, 133.15, 106.15

Thermoplastic (breakproof) high-gloss

ivory	L	A 525 PL
white	L	A 525 PL WW

Ref.-no.

Centre plate with knob

for rotary switch insert ref.-no.: 1101-4, 1101-20
for timer switch insert ref.-no.: 11015, 11120-20
for rotary blind switch insert ref.-no.: 1234.10, 1234.20

Duroplastic (scratch-proof) glossy

ivory		A 1541
white		A 1541 WW

also for volume control WHD type: LST..JU UP and LR..JU UP
and for program selection WHD type: PRO 3 JU..

SCHUKO® socket 16 A / 250 V ~



Screwless terminals for wires up to 2.5 mm²
Without claws: ref.-no. with additional "N", e.g.: ..1520 N..
With screw terminals: ref.-no. ..1521..

Supporting frame, claws and claw screws are integrated into the earth protection.

Duroplastic (scratch-proof) glossy

ivory		A 1520
white		A 1520 WW

Thermoplastic (breakproof) high-gloss

ivory		A 1520 BF
white		A 1520 BF WW
blue		A 1520 BF BL
green		A 1520 BF GN
orange		A 1520 BF O
red		A 1520 BF RT

Duroplastic (scratch-proof) glossy – antibacterial

ivory		ABA 1520
white		ABA 1520 WW

Thermoplastic (breakproof) high-gloss – antibacterial

green		ABA 1520 BF GN
orange		ABA 1520 BF O

SCHUKO® socket 16 A / 250 V ~



with enhanced contact protection (shutter)

Screwless terminals for wires up to 2.5 mm²
With screw terminals: ref.-no. ..1521..
Supporting frame, claws and claw screws are integrated into the earth protection.

Duroplastic (scratch-proof) glossy

ivory		A 1520 KI
white		A 1520 KI WW

Thermoplastic (breakproof) high-gloss

ivory		A 1520 BFKI
white		A 1520 BFKI WW
blue		A 1520 BFKI BL
green		A 1520 BFKI GN
orange		A 1520 BFKI O
red		A 1520 BFKI RT

Duroplastic (scratch-proof) glossy – antibacterial

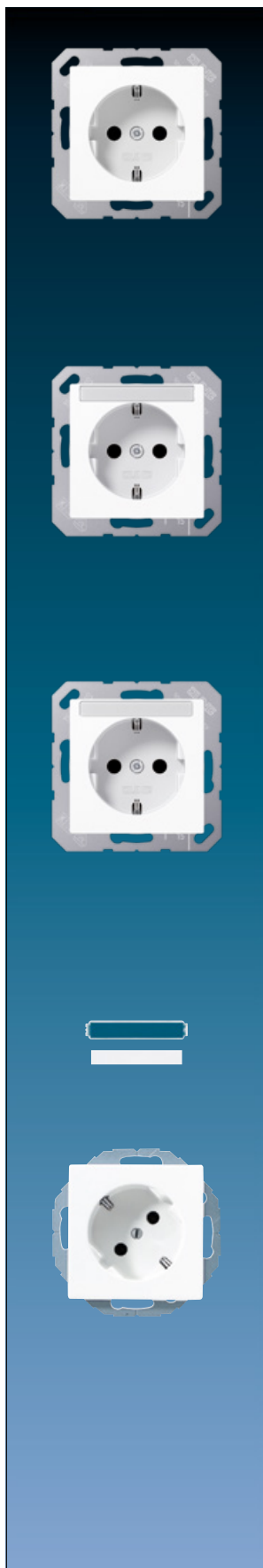
ivory		ABA 1520 KI
white		ABA 1520 KI WW

Thermoplastic (breakproof) high-gloss – antibacterial

green		ABA 1520 BF KI GN
orange		ABA 1520 BF KI O



AS range



Ref.-no.

SCHUKO® socket 16 A / 250 V ~

Screw terminals for wires up to 2.5 mm²

Supporting frame, claws and claw screws are integrated into the earth protection.

Duroplastic (scratch-proof) glossy

ivory		A 1521
white		A 1521 WW

Thermoplastic (breakproof) high-gloss

ivory		A 1521 BF
white		A 1521 BF WW
green		A 1521 BF GN
orange		A 1521 BF O

SCHUKO® socket 16 A / 250 V ~

with inscription field 6 x 46 mm

Screwless terminals for wires up to 2.5 mm²

Without claws: ref.-no. with additional "N", e.g.: ..1520 N..

With screw terminals: ref.-no. ..1521..

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

white		A 1520 BFNA WW
green		A 1520 BFNA GN
orange		A 1520 BFNA O
red		A 1520 BFNA RT

SCHUKO® socket 16 A / 250 V ~

with enhanced contact protection (shutter)

with inscription field 6 x 46 mm

Screwless terminals for wires up to 2.5 mm²

Without claws: ref.-no. with additional "N", e.g.: ..1520 N..

With screw terminals: ref.-no. ..1521..

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

white		A 1520 BFKINA WW
green		A 1520 BFKINA GN
orange		A 1520 BFKINA O
red		A 1520 BFKINA RT

Transparent cover with paper inlay

for inscription field 6 x 46 mm

(Spare part)

paper inlay white	A 20 NA
-------------------	---------

SCHUKO® socket 45°, 16 A / 250 V ~

with enhanced contact protection (shutter)

Screwless terminals for wires up to 2.5 mm²

especially suitable for vertical combination of several outlets

Without claws: ref.-no. with additional "N", e.g.: ..520-45 N..

Duroplastic (scratch-proof) glossy

ivory		A 520-45 KI
white		A 520-45 KI WW

Ref.-no.

SCHUKO® socket 16 A / 250 V ~
with pilot light (green LED) ref.-no.: 193-LED GN
with enhanced contact protection (shutter)

Screwless terminals for wires up to 2.5 mm²

Without claws: ref.-no. with additional "N", e.g.: ..1520 N..

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

ivory	☑ A 1520 BFKO
white	☑ A 1520 BFKO WW
green	A 1520 BFKO GN
orange	A 1520 BFKO O
red	A 1520 BFKO RT

Duroplastic (scratch-proof) glossy – antibacterial

ivory	ABA 1520 KO
white	ABA 1520 KO WW

Thermoplastic (breakproof) high-gloss – antibacterial

green	ABA 1520 BFKO GN
orange	ABA 1520 BFKO O
red	ABA 1520 BFKO RT

Spare pilot light exchangeable from the front without disconnecting the mains

SCHUKO® socket 16 A / 250 V ~
with pilot light (green LED) ref.-no.: 193-LED GN
with enhanced contact protection (shutter)
with inscription field 6 x 46 mm

Screwless terminals for wires up to 2.5 mm²

Without claws: ref.-no. with additional "N", e.g.: ..1520 N..

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

white	☑ A 1520 BFNAKO WW
green	A 1520 BFNAKO GN
orange	A 1520 BFNAKO O
red	A 1520 BFNAKO RT

Thermoplastic (breakproof) high-gloss – antibacterial

white	ABA 1520 BFNAKO WW
green	ABA 1520 BFNAKO GN
orange	ABA 1520 BFNAKO O
red	ABA 1520 BFNAKO RT

Spare pilot light exchangeable from the front without disconnecting the mains

Transparent cover with paper inlay

for inscription field 6 x 46 mm

(Spare part)

paper inlay white	A 20 NA
-------------------	---------

SCHUKO® socket with USB charger
with enhanced contact protection (shutter)

with 1 USB port type A

with quick charge function

Screwless terminals for wires up to 2.5 mm²

Installation in flush box according to EN 60670-1

Installation depth: 48 mm



Thermoplastic (breakproof) high-gloss

ivory	A 1520-18 A
white	A 1520-18 A WW



AS range



Ref.-no.

**SCHUKO® socket with USB charger
with enhanced contact protection (shutter)**

with 1 USB port type C
with quick charge function
Screwless terminals for wires up to 2.5 mm²
Installation in flush box according to EN 60670-1
Installation depth: 48 mm



Thermoplastic (breakproof) high-gloss

ivory

A 1520-18 C

white

A 1520-18 C WW

**SCHUKO® socket with USB charger
with enhanced contact protection (shutter)**

with 1 USB port type A and 1 USB port type C
Screwless terminals for wires up to 2.5 mm²
Installation in flush box according to EN 60670-1
Installation depth: 48 mm

Thermoplastic (breakproof) high-gloss

ivory

A 1520-15 CA

white

A 1520-15 CA WW

Socket, French/Belgian system with USB charger

2-pole + male earth pin, 16 A / 250 V ~
with enhanced contact protection (shutter)
with 1 USB port type A
with quick charge function
Screwless terminals for wires up to 2.5 mm²
Installation in flush box according to EN 60670-1
Installation depth: 48 mm



Thermoplastic (breakproof) high-gloss

ivory

A 1520 F-18 A

white

A 1520 F-18 A WW

Socket, French/Belgian system with USB charger

2-pole + male earth pin, 16 A / 250 V ~
with enhanced contact protection (shutter)
with 1 USB port type C
with quick charge function
Screwless terminals for wires up to 2.5 mm²
Installation in flush box according to EN 60670-1
Installation depth: 48 mm



Thermoplastic (breakproof) high-gloss

ivory

A 1520 F-18 C

white

A 1520 F-18 C WW

Socket, French/Belgian system with USB charger

2-pole + male earth pin, 16 A / 250 V ~
with enhanced contact protection (shutter)
with 1 USB port type A and 1 USB port type C
Screwless terminals for wires up to 2.5 mm²
Installation in flush box according to EN 60670-1
Installation depth: 48 mm

Thermoplastic (breakproof) high-gloss

ivory

A 1520 F-15 CA

white

A 1520 F-15 CA WW

Ref.-no.

**SCHUKO® socket 16 A / 250 V ~
with surge voltage protection**Screw terminals for wires up to 2.5 mm²

Without claws: ref.-no. with additional "N", e.g.: ..521 N..

Duroplastic (scratch-proof) glossy

ivory

A 521 UF

white

A 521 UF WW**SCHUKO® socket with RCD (residual current device) 16 A / 250 V ~
according to DIN EN 61008-1 (VDE 0664-10) and DIN EN 61008-2-1 (VDE 0664-11)****Rated residual current: 30 mA****with enhanced contact protection (shutter)**Screwless terminals for wires up to 2.5 mm²

not suitable for installation in surface caps

The SCHUKO socket with RCD is suitable to replace sockets in older installations.

Sockets that are connected to the RCD-protected output terminals (L' N') are likewise RCD-protected.

The electrical installation up to the SCHUKO® socket with RCD is not protected.

The socket can also be switched on and off manually, using the built-in switch.

Thermoplastic (breakproof) high-gloss

ivory

A 5520.30

white

A 5520.30 WW**Technical data**

Rated voltage: AC 230 V ~, 50/60 Hz

Rated current: 16 A

Rated residual current: 30 mA

Ambient temperature: -25 ... +40 °C

**RCD (residual current device) 16 A / 250 V ~
according to DIN EN 61008-1 (VDE 0664-10) and DIN EN 61008-2-1 (VDE 0664-11)****Rated residual current: 30 mA**Screwless terminals for wires up to 2.5 mm²

not suitable for installation in surface caps

suitable for cables with 2 or 3 conductors

Installation into flush box with a depth of 60 mm is recommended.

Protection device with voltage-independent function. The sockets connected to the output terminals

are protected acc. to DIN VDE 0100-410. The electrical installation up to the RCD is not protected!

Thermoplastic (breakproof) high-gloss

ivory

A 5530 FIB

white

A 5530 FIB WW**Technical data**

Rated voltage: AC 230 V ~, 50/60 Hz

Rated current: 16 A

Rated residual current: 30 mA

Ambient temperature: -25 ... +40 °C

**SCHUKO® socket 16 A / 250 V ~
with LED floor pilot light****with integrated brightness sensor****with enhanced contact protection (shutter)**Screwless terminals for wires up to 2.5 mm²

Installation into flush box min. 63 mm (depth)

with white LEDs (colour temperature 4000 K)

Power consumption stand-by / ON: 0.3 / 0.5 W

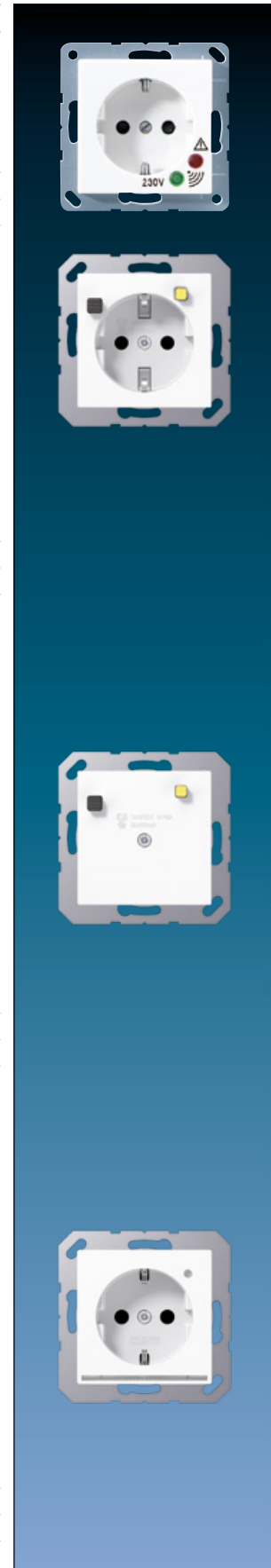
Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

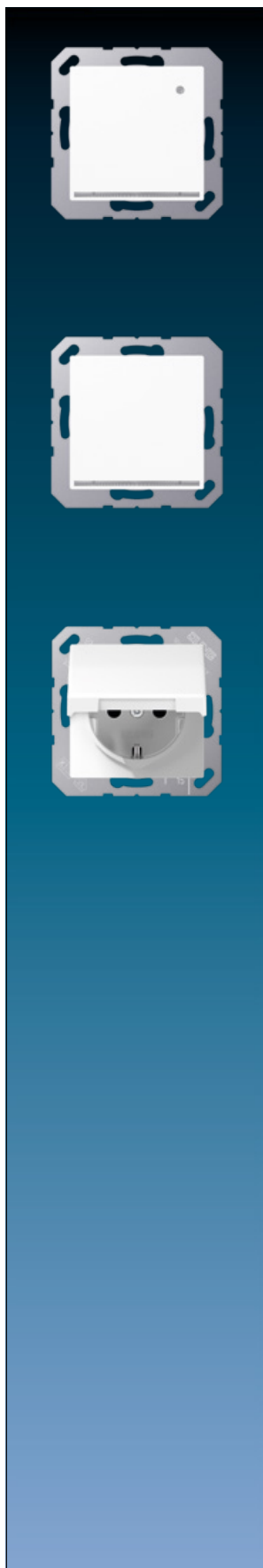
ivory

A 1520-O LNW

white

A 1520-O WW LNW

AS range



Ref.-no.

LED floor pilot light

with integrated brightness sensor

Screwless terminals for wires up to 2.5 mm²
Installation into flush box min. 63 mm (depth)
with white LEDs (colour temperature 4000 K)
Power consumption stand-by / ON: 0.3 / 0.5 W

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

ivory

A 1539-O LNW

white

A 1539-O WW LNW

LED floor pilot light

Screwless terminals for wires up to 2.5 mm²
Installation into flush box min. 63 mm (depth)
with white LEDs (colour temperature 4000 K)
Power consumption (ON): 0.5 W

The floor pilot light can be switched via an external switch.

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

ivory

A 1539-OO LNW

white

A 1539-OO WW LNW

SCHUKO® socket 16 A / 250 V ~

with hinged lid (with spring)

Screwless terminals for wires up to 2.5 mm²

Without claws: ref.-no. with additional "N", e.g.: ..1520 N..

With screw terminals: ref.-no. ..1521..

Supporting frame, claws and claw screws are integrated into the earth protection.

Duroplastic (scratch-proof) glossy

ivory

IP P

AS 1520 KL

white

IP P

AS 1520 KL WW

Thermoplastic (breakproof) high-gloss

ivory

IP

L

AS 1520 BFKL

white

IP

L

AS 1520 BFKL WW

blue

IP

AS 1520 BFKL BL

green

IP

AS 1520 BFKL GN

orange

IP

AS 1520 BFKL O

red

IP

AS 1520 BFKL RT

Duroplastic (scratch-proof) glossy – antibacterial

ivory

IP

ABAS 1520 KL

white

IP

ABAS 1520 KL WW

Thermoplastic (breakproof) high-gloss – antibacterial

green

IP

ABAS 1520 BFKL GN

orange

IP

ABAS 1520 BFKL O

Ref.-no.

SCHUKO® socket 16 A / 250 V ~**with hinged lid (with spring)****with enhanced contact protection (shutter)**Screwless terminals for wires up to 2.5 mm²

Without claws: ref.-no. with additional "N", e.g.: ..1520 N..

With screw terminals: ref.-no. ..1521..

Supporting frame, claws and claw screws are integrated into the earth protection.

Duroplastic (scratch-proof) glossy

ivory	IP P	AS 1520 KIKL
white	IP P	AS 1520 KIKL WW

Thermoplastic (breakproof) high-gloss

ivory	IP L	AS 1520 BFKIKL
white	IP L	AS 1520 BFKIKL WW
green	IP	AS 1520 BFKIKL GN
orange	IP	AS 1520 BFKIKL O
red	IP	AS 1520 BFKIKL RT

Duroplastic (scratch-proof) glossy – antibacterial

ivory	IP	ABAS 1520 KIKL
white	IP	ABAS 1520 KIKL WW

Thermoplastic (breakproof) high-gloss – antibacterial

green	IP	ABAS 1520 KIKL GN
orange	IP	ABAS 1520 KIKL O

SCHUKO® socket 16 A / 250 V ~**with hinged lid (with spring)**Screw terminals for wires up to 2.5 mm²

Supporting frame, claws and claw screws are integrated into the earth protection.

Duroplastic (scratch-proof) glossy

ivory	IP P	AS 1521 KL
white	IP P	AS 1521 KL WW

Thermoplastic (breakproof) high-gloss

ivory	IP L	AS 1521 BFKL
white	IP L	AS 1521 BFKL WW
green	IP	AS 1521 BFKL GN
orange	IP	AS 1521 BFKL O

SCHUKO® socket 16 A / 250 V ~**with hinged lid (with spring)****with enhanced contact protection (shutter)**Screw terminals for wires up to 2.5 mm²

Supporting frame, claws and claw screws are integrated into the earth protection.

Duroplastic (scratch-proof) glossy

ivory	IP P	AS 1521 KIKL
white	IP P	AS 1521 KIKL WW

Thermoplastic (breakproof) high-gloss

ivory	IP L	AS 1521 BFKIKL
white	IP L	AS 1521 BFKIKL WW
green	IP	AS 1521 BFKIKL GN
orange	IP	AS 1521 BFKIKL O



AS range



Ref.-no.

SCHUKO® socket 16 A / 250 V ~
with hinged lid (with spring)
with pilot light (green LED) ref.-no.: 193-LED GN
with enhanced contact protection (shutter)

Screwless terminals for wires up to 2.5 mm²
 Without claws: ref.-no. with additional "N", e.g.: ..1520 N..
 Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

ivory	IP	L	AS 1520 BFKLKO
white	IP	L	AS 1520 BFKLKO WW
green	IP		AS 1520 BFKLKO GN
orange	IP		AS 1520 BFKLKO O
red	IP		AS 1520 BFKLKO RT

Duroplastic (scratch-proof) glossy – antibacterial

ivory	IP		ABAS 1520 KLKO
white	IP		ABAS 1520 KLKO WW

Thermoplastic (breakproof) high-gloss – antibacterial

green	IP		ABAS 1520 KLKO GN
orange	IP		ABAS 1520 KLKO O
red	IP		ABAS 1520 KLKO RT

Spare pilot light exchangeable from the front without disconnecting the mains

SCHUKO® socket 16 A / 250 V ~
with hinged lid (with spring)
with safety lock (24 different locks)
with enhanced contact protection (shutter)

Screwless terminals for wires up to 2.5 mm²
 Without claws: ref.-no. with additional "N", e.g.: ..1520 N..
 With screw terminals: ref.-no. ..1521..

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

ivory	IP	L	AS 1520 BFKLSL
white	IP	L	AS 1520 BFKLSL WW
green	IP		AS 1520 BFKLSL GN
orange	IP		AS 1520 BFKLSL O
red	IP		AS 1520 BFKLSL RT

Key

(Spare part)
 for all hinged lids with safety lock

1 piece	802 SL – 825 SL
---------	-----------------

When ordering, please indicate lock number!

Socket, 2-pole without earth 16 A / 250 V ~

Screw terminals for wires up to 2.5 mm²

Duroplastic (scratch-proof) glossy

ivory	IP	A 511 N
white	IP	A 511 N WW

Ref.-no.

**Socket, 2-pole without earth 16 A / 250 V ~
with enhanced contact protection (shutter)**Screw terminals for wires up to 2.5 mm²**Duroplastic (scratch-proof) glossy**

ivory		A 511 NKI
white		A 511 NKI WW

Socket for Switzerland**1-gang socket type 13**

10 A 250 V ~, L + N + PE

Screwless terminals for wires up to 2.5 mm² acc. to SEV 1011-1998/IEC 884-1

Installation in flush box according to EN 60670-1

not suitable for installation in surface caps

with supporting frame, screw fixing only

Thermoplastic (breakproof) high-gloss

ivory		A 1520-13 BF SEV
white		A 1520-13 BF SEV WW

Socket insert, French/Belgian system

2-pole + male earth pin, 16 A / 250 V ~

Supporting frame, claws and claw screws are integrated into the earth protection.

with claws

with screwless terminals	1520 F EINS
with screw terminals	1521 F EINS

Socket insert, French/Belgian system

2-pole + male earth pin, 16 A / 250 V ~

Supporting frame is integrated into the earth protection.



without claws

with screwless terminals	1520 NF EINS
with screw terminals	1521 NF EINS

Centre plate

for socket insert French/Belgian system, ref.-no.: 1520 ..F EINS, 1521 ..F EINS



Duroplastic (scratch-proof) glossy

ivory		A 1521 F PL-1
white		A 1521 F WW PL-1

Centre plate

for socket insert French/Belgian system, ref.-no.: 1520 ..F EINS, 1521 ..F EINS

with enhanced contact protection (shutter)**Duroplastic (scratch-proof) glossy**





ivory		A 1521 FKI PL-1
white		A 1521 FKI WW PL-1

Centre plate

with hinged lid (with spring)

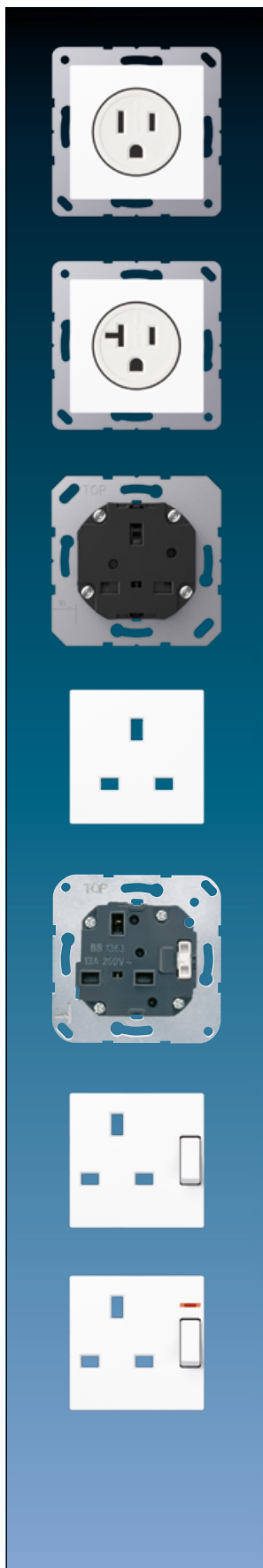
for socket insert French/Belgian system, ref.-no.: 1520 ..F EINS, 1521 ..F EINS

with enhanced contact protection (shutter)**Duroplastic (scratch-proof) glossy**

ivory			A 1521 FKIKL PL-1
white			A 1521 FKIKL WW PL1



AS range

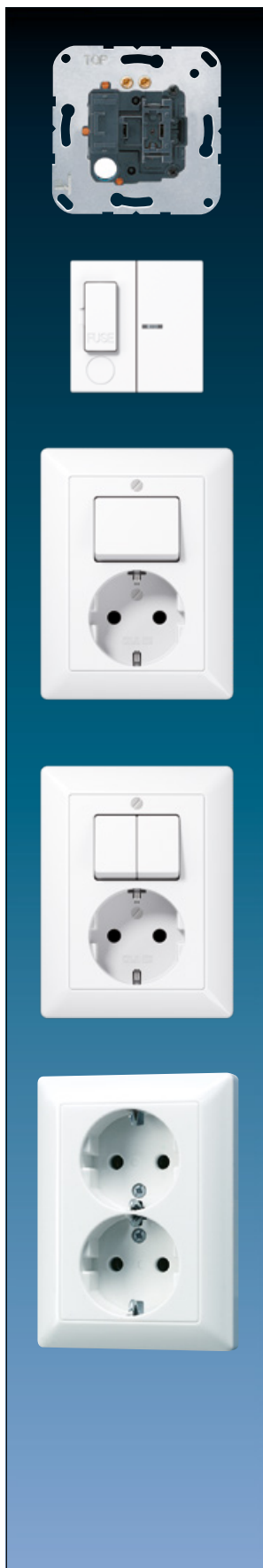


	Ref.-no.
Socket US NEMA system 15 A, 125 V ~, 5-15R, 2-pole + earth Screw terminals for wires up to 4 mm ² acc. to US-NEMA Thermoplastic (breakproof) high-gloss	
ivory	A 521-15
white	A 521-15 WW
Socket US NEMA system 20 A, 125 V ~, 5-20R, 2-pole + earth Screw terminals for wires up to 4 mm ² acc. to US-NEMA Thermoplastic (breakproof) high-gloss	
ivory	A 521-20
white	A 521-20 WW
Socket insert British Standard 1363 13 A 250 V ~ 2-pole + earth, with enhanced contact protection (shutter) Screw terminals for wires up to 4 mm ² without switch	3521 EINS
Centre plate for socket insert ref.-no. 3521 EINS Duroplastic (scratch-proof) glossy	
ivory	A 3521 PL
white	A 3521 WW PL
Switched socket insert British Standard 1363 13 A 250 V ~ 2-pole + earth, with enhanced contact protection (shutter) Screw terminals for wires up to 4 mm ² without indicator light with indicator light	3171 EINS
	3171 KO EINS
Centre plate for socket insert ref.-no. 3171 EINS Duroplastic (scratch-proof) glossy	
ivory	A 3171 PL
white	A 3171 WW PL
Centre plate for socket insert ref.-no. 3171 KO EINS Duroplastic (scratch-proof) glossy	
ivory	A 3171 KO PL
white	A 3171 KO WW PL

	Ref.-no.
Socket insert British Standard 546 5 A 250 V ~ 2-pole + earth, with enhanced contact protection (shutter) Screw terminals for wires up to 4 mm ² without switch	3171-5 EINS
Centre plate for socket insert ref.-no. 3171-5 EINS Duroplastic (scratch-proof) glossy ivory white	A 3171-5 PL A 3171-5 WW PL
Socket insert for China consisting of: 2-pole without earth for flat and rounded pins and 2-pole with earth only for flat pins with enhanced contact protection (shutter) Screw terminals for wires up to 4 mm ² screw fixing only, without claws Supporting frame is integrated into the earth protection. without switch	3521-5 CN EINS
Centre plate for Chinese socket combination, ref.-no. 3521-5 CN EINS Duroplastic (scratch-proof) glossy ivory white Thermoplastic (breakproof) high-gloss white	A 3521-5 CNPL A 3521-5 CN WW PL A 3521-5 CNBF WW PL
Socket insert for India 16 A 250 V ~ 2-pole + earth, with enhanced contact protection (shutter) Screw terminals for wires up to 4 mm ² without switch	521 IN-EINS
Centre plate for socket insert for India, ref.-no. 521 IN-EINS Duroplastic (scratch-proof) glossy ivory white	A 521 IN PL A 521 IN WW PL



AS range



Ref.-no.

Switched cable unit with fuse

2-pole, 13 A 250 V ~

with indicator light

Screw terminals for wires up to 4 mm²

3190 CU KO EINS

Centre plate

for switched cable unit ref.-no. 3190 CU KO EINS

ivory

A 3190 CU KO PL

white

A 3190 CU KO WW PL

SCHUKO® socket 16 A / 250 V ~

with 1-gang / 2-way switch 10 AX / 250 V ~

to be installed into one flush box with 60 mm Ø

Screw terminals for wires up to 2.5 mm²

Without claws: ref.-no. with additional "E", e.g.: AS 5576 EU

dimensions: 80.5 x 105 mm

Duroplastic (scratch-proof) glossy

ivory

AS 5576 U

white

AS 5576 U WW

(2-way switch circuit possible with ref.-no. 506 U or 506 TU.)

SCHUKO® socket 16 A / 250 V ~

with 2-gang switch 10 AX / 250 V ~

to be installed into one flush box with 60 mm Ø

Screw terminals for wires up to 2.5 mm²

screw fixing only, without claws

dimensions: 80.5 x 105 mm

Duroplastic (scratch-proof) glossy

ivory

AS 5575 EU

white

AS 5575 EU WW

2-gang SCHUKO® socket 16 A / 250 V ~

to be installed into one flush box with 60 mm Ø

Screwless terminals for wires up to 2.5 mm²

Without claws: ref.-no. with additional "N", e.g.: ..1520 N..

dimensions: 80.5 x 105 mm

Duroplastic (scratch-proof) glossy

ivory

AS 5020 U

white

AS 5020 U WW

Ref.-no.

**2-gang SCHUKO® socket 16 A / 250 V ~
with enhanced contact protection (shutter)**

to be installed into one flush box with 60 mm Ø

Screwless terminals for wires up to 2.5 mm²

Without claws: ref.-no. with additional "N", e.g.: ..1520 N..

dimensions: 80.5 x 105 mm

Duroplastic (scratch-proof) glossy

ivory

AS 5020 KIU

white

AS 5020 KIU WW

2-gang SCHUKO® socket 16 A / 250 V ~

to be installed into one flush box with 60 mm Ø

Screw terminals for wires up to 2.5 mm²

dimensions: 80.5 x 105 mm

Duroplastic (scratch-proof) glossy

ivory

AS 5022 U

white

AS 5022 U WW

with enhanced contact protection (shutter)**Duroplastic (scratch-proof) glossy**

ivory

AS 5022 KIU

white

AS 5022 KIU WW

Socket, 2-pole without earth 16 A / 250 V ~**with 1-gang/2-way switch 10 AX / 250 V ~**

to be installed into one flush box with 60 mm Ø

Screw terminals for wires up to 2.5 mm²

dimensions: 80.5 x 105 mm

Duroplastic (scratch-proof) glossy

ivory

AS 5546 EU

white

AS 5546 EU WW

(2-way switch circuit possible with ref.-no. 506 U or 506 TU.)

Socket, 2-pole without earth 16 A / 250 V ~**with 2-gang switch 10 AX / 250 V ~**

to be installed into one flush box with 60 mm Ø

Screw terminals for wires up to 2.5 mm²

dimensions: 80.5 x 105 mm

Duroplastic (scratch-proof) glossy

ivory

AS 5545 EU

white

AS 5545 EU WW

2-gang socket, 2-pole without earth 16 A / 250 V ~

to be installed into one flush box with 60 mm Ø

Screwless terminals for wires up to 2.5 mm²**Duroplastic (scratch-proof) glossy**

ivory

AS 5010 U

white

AS 5010 U WW

with enhanced contact protection (shutter)**Duroplastic (scratch-proof) glossy**

ivory

AS 5010 KIU

white

AS 5010 KIU WW



AS range

Ref.-no.

SCHUKO® socket for cable ducts 16 A / 250 V ~

wired

Screwless terminals for wires up to 2.5 mm²

Cover with integrated frame

for installation into cable duct boxes

Supporting frame is integrated into the earth protection.

dimensions: 80.5 x 151.5 mm

2-gang

Duroplastic (scratch-proof) glossy

ivory	AS 1522
-------	---------

white	AS 1522 WW
-------	------------

Thermoplastic (breakproof) high-gloss

ivory	AS 1522 BF
-------	------------

white	AS 1522 BF WW
-------	---------------

with 1 inscription field 12 x 55.5 mm

2-gang

Duroplastic (scratch-proof) glossy

ivory	AS 1522 NA
-------	------------

white	AS 1522 NA WW
-------	---------------



SCHUKO® socket for cable ducts 16 A / 250 V ~

Screwless terminals for wires up to 2.5 mm²

Cover with integrated frame

for installation into cable duct boxes

dimensions: 80.5 x 151.5 mm

3-gang

Duroplastic (scratch-proof) glossy

ivory	AS 523
-------	--------

white	AS 523 WW
-------	-----------

Thermoplastic (breakproof) high-gloss

ivory	AS 523 BF
-------	-----------

white	AS 523 BF WW
-------	--------------



Ref.-no.

Centre plate with knob

for rotary dimmer inserts ref.-no.: 1730 DD, 1731 DD, 211 GDE

for satellite dimmer insert ref.-no.: 1733 DNE

for electronic potentiometer 1–10 V ref.-no.: 240-10

for DALI rotary controllers ref.-no.: 1740 DSTE, 1741 DSTE

Duroplastic (scratch-proof) glossyivory   **A 1540**white   **A 1540 WW****Sealing gasket**

for covers for rotary dimmer inserts

 **140 D**

To obtain protection level IP 44 the sealing gasket ref.-no.: 140 D has to be placed into the centre plate for rotary dimmer and IP 44 frame has to be used.

Rotary dimmer LED with rotary on/off

with cover and integrated frame

without satellite input

Duroplastic (scratch-proof) glossyivory  **AS 5544.03 V**white  **AS 5544.03 V WW**

single device, not suitable for combinations

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50 Hz
Stand-by power:	approx. 0.2 W
Power loss:	approx. 3.7 W
Ambient temperature:	-5 ... +45 °C
Connected load at 25 °C	
Incandescent lamps:	20 ... 200 W
HV halogen lamps:	20 ... 200 W
Dimmable HV LED lamps:	typical 3 ... 40 W
Ohmic and HV LED:	typical 3 ... 40 W
Reduction of load	
Surface mounting:	-5 %
for every 5 °C exceeded 35 °C:	-10 %
for installation into wooden or hollow walls:	-15 %
Fine-wire fuse:	T 800 mA H 250
Connection mode:	screw terminals
single wire:	1 x 0.5 ... 2.5 mm ²
stranded without ferrule:	1 x 0.5 ... 2.5 mm ²
stranded with ferrule:	1 x 0.5 ... 2.5 mm ²
2-way switch circuit:	not possible



AS range



Ref.-no.

Standard centre plate

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1720 NE, 1723 NE, 1708 IE

Duroplastic (scratch-proof) glossy

ivory

AS 1700

white

AS 1700 WW

Standard centre plate "arrows"

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1720 NE, 1723 NE, 1708 IE

Duroplastic (scratch-proof) glossy

ivory

AS 1700 P

white

AS 1700 P WW

Universal centre plate

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE

Duroplastic (scratch-proof) glossy

ivory

AS 1701

white

AS 1701 WW

Universal centre plate "arrows"

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE

Duroplastic (scratch-proof) glossy

ivory

AS 1701 P

white

AS 1701 P WW

Standard centre plate 2-gang

for LB Management inserts "light" ref.-no.: 1702 SE, 1712 DE, 1713 DSTE, 1723 NE

Duroplastic (scratch-proof) glossy

ivory

AS 1702

white

AS 1702 WW

Standard timer with display

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE

white

A 1750 D WW

black

A 1750 D SW

	Ref.-no.
Universal timer Bluetooth	
for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE	
for LB Management inserts "light"	
ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE	
Duroplastic (scratch-proof) glossy	
ivory	AS 1751 BT
white	AS 1751 BT WW
Universal timer Bluetooth "arrows"	
for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE	
for LB Management inserts "light"	
ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE	
Duroplastic (scratch-proof) glossy	
ivory	AS 1751 PBT
white	AS 1751 PBT WW
eNet Standard radio centre plate	
for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE	
for LB Management inserts "light"	
ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE	
Duroplastic (scratch-proof) glossy	
ivory	FM AS 1700
white	FM AS 1700 WW
eNet Standard radio centre plate "arrows"	
for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE	
for LB Management inserts "light"	
ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE	
Duroplastic (scratch-proof) glossy	
ivory	FM AS 1700 P
white	FM AS 1700 P WW
eNet radio centre plate	
for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE	
for LB Management inserts "light"	
ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE	
Duroplastic (scratch-proof) glossy	
ivory	FM AS 1701
white	FM AS 1701 WW
eNet radio centre plate "arrows"	
for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE	
for LB Management inserts "light"	
ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE	
Duroplastic (scratch-proof) glossy	
ivory	FM AS 1701 P
white	FM AS 1701 P WW



AS range



Ref.-no.

Standard automatic switch 1.1 m

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

Thermoplastic (breakproof) high-gloss

ivory **A 17180**

white **A 17180 WW**

Standard automatic switch 1.1 m

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

IP 44 suitable only for indoor installation

Thermoplastic (breakproof) high-gloss

ivory **A 17180 WU**

white **A 17180 WU WW**

Standard automatic switch 2.2 m

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

IP 44 suitable only for indoor installation

Thermoplastic (breakproof) high-gloss

ivory **A 17280**

white **A 17280 WW**

Universal automatic switch 1.1 m

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

Thermoplastic (breakproof) high-gloss

ivory **A 17181**

white **A 17181 WW**

Universal automatic switch 1.1 m

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

IP 44 suitable only for indoor installation

Thermoplastic (breakproof) high-gloss

ivory **A 17181 WU**

white **A 17181 WU WW**

Universal automatic switch 2.2 m

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

IP 44 suitable for indoor and outdoor installation

Thermoplastic (breakproof) high-gloss

ivory **A 17281**

white **A 17281 WW**

Sealing kit

for automatic switches 2.2 m of the AS / A ranges

A 50 DS

To obtain protection level IP 44

Ref.-no.

Electronic timer, 230 V~, 1500 VA

The device is operated simply by pressing the button. After a previously set time delay the timer switches off automatically. The activated time delay can be stopped by pressing the button again.
1-pole switch contact, with status LED, satellite operation possible
incl. 1-gang frame with inscription field and labels for various time periods

time delay 1 – 60 min.

Duroplastic (scratch-proof) glossy

ivory		AS 1060 ET
white		AS 1060 ET WW










time delay 1 – 8 hours

Duroplastic (scratch-proof) glossy

ivory		AS 10.480 ET
white		AS 10.480 ET WW

Timer switch 16 AX / 250 V ~

Screw terminals for wires up to 4 mm²
incl. surface cap with inscription field 12 x 55.5 mm and scale disc
accuracy ± 10 %

white	2-pole, 1-way	max. 15 minutes		W 11015 A WW
	2-pole, 1-way	max. 30 minutes		W 11030 A WW
	1-pole, 2-way	max. 30 minutes		W 11030-20 A WW
	2-pole, 1-way	max. 60 minutes		W 11060 A WW
	2-pole, 1-way	max. 120 minutes		W 110.120 A WW
	1-pole, 2-way	max. 120 minutes		W 110.120-20 A WW
	2-pole, 1-way	max. 240 minutes		W 110.240 A WW
	2-pole, 1-way	max. 360 minutes		W 110.360 A WW
	2-pole, 1-way	max. 720 minutes		W 110.720 A WW

Awning control, AeroTec 04

Thermoplastic (breakproof) high-gloss

white	AT 04 WW
-------	----------

The AeroTec timer may be used to operate sun protection systems **only**.

Intermediate frame to install "AeroTec 04" in AS and A ranges

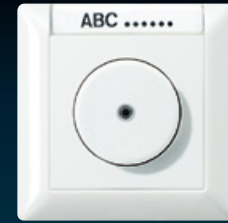
white	A AT 581 Z WW
-------	---------------

Room thermostat (1-way contact)

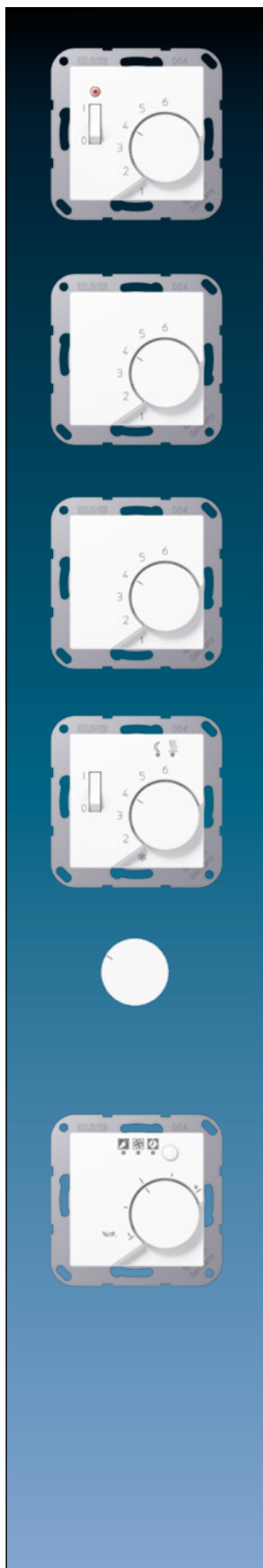
1-pole NC contact 10 (4) A, AC 230 V ~, 50/60 Hz

Thermoplastic (breakproof) high-gloss

ivory	TR A 231
white	TR A 231 WW



AS range



Ref.-no.

Room thermostat (1-way contact)

1-pole NC contact 10 (4) A, AC 24 V ~

Thermoplastic (breakproof) high-gloss

ivory

TR A 241

white

TR A 241 WW

Room thermostat (2-way contact)

1-pole, 2-way, heating 10 (4) A, AC 230 V ~, 50/60 Hz

1-pole, 2-way, cooling 5 (2) A, AC 230 V ~, 50/60 Hz

For switching between heating/cooling the EBERLE terminal strip EV..H/K is necessary.

Thermoplastic (breakproof) high-gloss

ivory

TR A 236

white

TR A 236 WW

Room thermostat (2-way contact)

1-pole, 2-way, heating 10 (4) A, AC 24 V ~

1-pole, 2-way, cooling 5 (2) A, AC 24 V ~

Thermoplastic (breakproof) high-gloss

ivory

TR A 246

white

TR A 246 WW

Floor thermostat

1-pole NO contact 10 A, AC 230 V ~, 50/60 Hz

Thermoplastic (breakproof) high-gloss

ivory

FTR A 231

white

FTR A 231 WW

Special knob, manipulation-proof

ivory

MS TR 231

white

MS TR 231 WW

The set temperature can no longer be changed after the knob has been "locked".

Dismounting only possible with tool.

Humidistat

Thermoplastic (breakproof) high-gloss

ivory

A 5201 HYG

white

A 5201 HYG WW

Ref.-no.

Room thermostat with display standard

consists of room thermostat insert (ref.-no.: 1790 RTR) and display (ref.-no.: .. 1790 D ..)

white	TR D A 1790 WW
black	TR D A 1790 SW

External temperature sensor

for room thermostat ref.-no. 1790 RTR, TR D .. 1790 ..
 spare part for floor thermostat ref.-no. FTR .. 231 ..

FF 7.8

Also suitable as external temperature sensor for the following KNX devices, ref.-no.:
 .. 2178 TS .., .. 2178 ORTS .., .. 5192 KRM TS D, .. 5194 KRM TS D, 2177 SV R, 23066 REGHE

Technical data

NTC sensor in plastic cap 7.8 mm Ø

Cable length: 4 m

Ambient temperature: -25 ... +70 °C

Temperature controller fan coil, 2-pipe

white	TRD A 523028 WW
black	TRD A 523028 SW

Temperature controller fan coil, 4-pipe

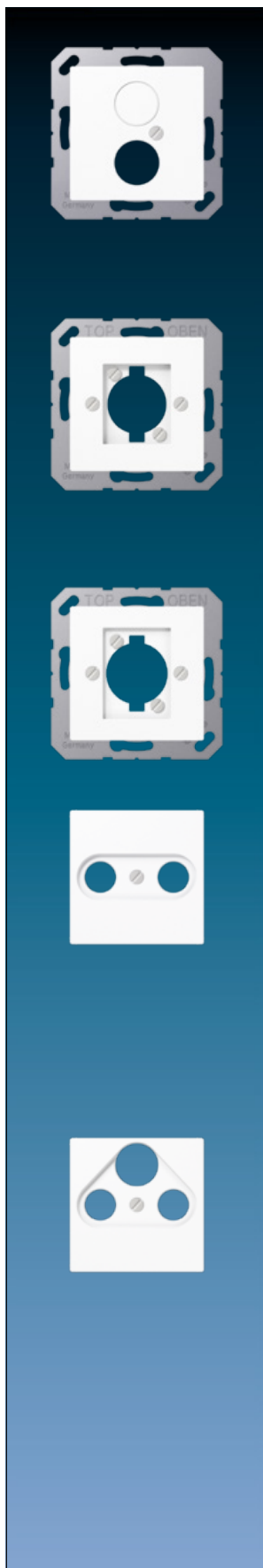
white	TRD A 523048 WW
black	TRD A 523048 SW

Cover kits F50 see as of page 662

Cover kits F40 see as of page 671



AS range



Ref.-no.

Centre plate

with supporting frame, screw fixing only

for 2 loudspeaker sockets up to 18.5 mm Ø or with flange mounting 22.5 mm hole spacing.

In connection with mounting plate ref.-no. 63 WBT (not included) for loudspeaker terminal ref.-no. LPK 63 RT/SW and RCA socket ref.-no. CIB 63.

Second hole can be broken out.

Duroplastic (scratch-proof) glossy

ivory		A 562
white		A 562 WW

Centre plate

with supporting frame, screw fixing only

for loudspeaker socket ref.-no.: PB 4

for chassis connector ref.-no.: CXLR-S, CXLR-D

for XLR chassis Neutrik D / DL / DLX Series

internal dimensions (W x H): 27.5 x 32.5 mm

Thermoplastic (breakproof) high-gloss

ivory		A 568-1 BF
white		A 568-1 BF WW

Centre plate for XLR socket

with supporting frame, screw fixing only

e.g. Binder, Cannon, Neutrik (P Series)

internal dimensions (W x H): 27.5 x 37 mm

Thermoplastic (breakproof) high-gloss

ivory		A 568 BF
white		A 568 BF WW

Centre plate

for TV-FM sockets ref.-no.: EDU 04 F, GEDU 10, GEDU 15

Duroplastic (scratch-proof) glossy

ivory		A 561 PLTV
white		A 561 PLTV WW

Thermoplastic (breakproof) high-gloss

ivory		A 561 BFPLTV
white		A 561 BFPLTV WW

Duroplastic (scratch-proof) glossy – antibacterial

ivory		ABA 561 PLTV
white		ABA 561 PLTV WW

Centre plate

for SAT-TV-FM socket outlet inserts ref.-no.: EDA 302 F, GDA 313 F

for standard SAT-TV-FM sockets

Duroplastic (scratch-proof) glossy

ivory		A 561 PLSAT
white		A 561 PLSAT WW

Thermoplastic (breakproof) high-gloss

ivory		A 561 BFPLSAT
white		A 561 BFPLSAT WW

Ref.-no.

Smart TV socket

with supporting frame, screw fixing only

Cover with snap-on fixing and shutter with spring

including universal modular jack socket ref.-no.: UMA-CAT6A and IEC plug module for antenna cables

Thermoplastic (breakproof) high-gloss

white

MMD A 4521 WW**Technical data**

Specification IEC plug module

External connection:	coaxial plug IEC 60169-2
Internal connection:	F socket IEC 60169-24
Impedance:	75 Ohm
Frequency range:	5 ... 2,400 MHz
Attenuation:	0.0 dB
Installation depth not considering cables	
Universal modular jack socket:	40 mm
IEC plug module:	30 mm
Use right angle plug.	
Consider bending radius. Ensure sufficient installation space.	

Electronic door signal AC 8 – 12 V ~ / DC 12 – 17 V

with supporting frame, screw fixing only

Thermoplastic (breakproof) high-gloss

ivory

A 567 S

white

A 567 S WW**Technical data**

Loudness:	approx. 82 dB(A) (sound 1, approx. 800 Hz), distance 1 m and AC 12 V ~ (Piezo, with sound generator) approx. 96 dB(A) (sound 2, approx. 3000 Hz), distance 1 m and AC 12 V ~ (Piezo, with sound generator)
Terminals:	~ 1 sound 1 (approx. 800 Hz) ~ 2 sound 2 (approx. 3,000 Hz)
Current consumption:	approx. 24 mA at AC 12 V ~ approx. 12 mA at DC 12 V

Triple-tone door signal

with supporting frame, screw fixing only

Thermoplastic (breakproof) high-gloss

ivory

A 567-G3

white

A 567-G3 WW

2 separate terminals for 2 or 3 tone signal

power supply: 8 ... 12 V AC or 8 ... 24 V DC, via external power supply (SELV)

e.g. ref.-no. NT 2405 VDC or NT 2415 REG VDC

current consumption: approx. 150 mA

Cable outlet

with supporting frame, screw fixing only

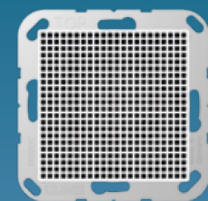
opening for cables with max. 8 mm Ø

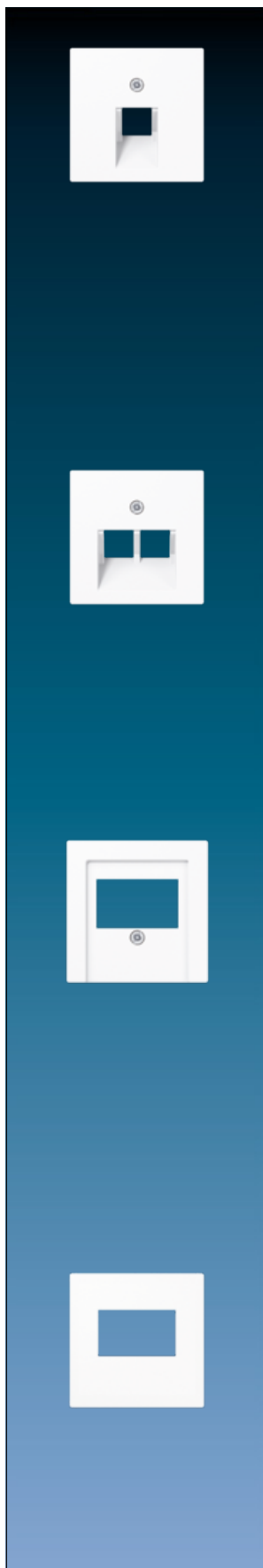
Duroplastic (scratch-proof) glossy

ivory

**AS 590 A**

white

**AS 590 A WW**



Ref.-no.

Centre plate

for 1-gang modular jack sockets
IAE/UAE sockets ref.-no.: UAE 8 UPO
for sockets Cat. 6 ref.-no.: UAE 8 UPOK6
(1 x 8-pol.)
for WLAN access point ref.-no.: WLAN-AC-UAE, WLAN-AC-POE-UAE

Duroplastic (scratch-proof) glossy

ivory	☐	A 569-1 PLUA
white	☐	A 569-1 PLUA WW

Thermoplastic (breakproof) high-gloss

ivory	☐	A 569-1 BFPLUA
white	☐	A 569-1 BFPLUA WW

Suitable inserts:

Rutenbeck: UAE 8(4) UPO, UAE 8(8) UPO, UAE-Cat.5e-8 UPO OK, UAE-real.Cat.6-8 UPO OK
Telegärtner: AMJ 45, UMJ 45 and ISDN 1 x RJ 45 (TYP 8)

Centre plate

for 2-gang modular jack sockets
IAE/UAE sockets ref.-no.: UAE 2 x 8 UPO, UAE 8-8 UPO
for sockets Cat. 6 ref.-no.: UAE 8-8 UPOK6
(2 x 8-pol.)
for media converter 2-gang ref.-no.: MK-POF-2UAE

Thermoplastic (breakproof) high-gloss

ivory	☐	A 569-2 BFPLUA
white	☐	A 569-2 BFPLUA WW

Suitable inserts:

METZ CONNECT (BTR): 1307441001-i or 1307441200-i; E-Dat design 8/8(8), Class E
Rutenbeck: UAE 8/8 (8/8) UPO, UAE 2x8 (8) UPO, UAE-Cat.5e-8/8 UPO OK, UAE-real.Cat.6-8/8 UPO OK
Telegärtner: AMJ 45, UMJ 45 and ISDN 2 x RJ 45 (TYP 8/8)

Centre plate (screw fixing)

for stereo loudspeaker socket ref.-no.: SLA 2 WW, SLA 2 AN
for 2-gang supporting frame ref.-no.: UMA-MA2 in connection with universal modular jack socket type A
ref.-no.: UMA-CAT6A

Duroplastic (scratch-proof) glossy

ivory	☐	A 569 PLT
white	☐	A 569 PLT WW

Thermoplastic (breakproof) high-gloss

ivory	☐	A 569 BFPLT
white	☐	A 569 BFPLT WW

Duroplastic (scratch-proof) glossy – antibacterial

ivory		ABA 569 PLT
white		ABA 569 PLT WW

for **Rutenbeck**: UM-MA 2 Up with UM-real Cat.6a A

for **Dätwyler**: flush-mounted modular jack socket (for 2 x MS-K 1/8 Cat.6a), ref.-no.: 440 012

Centre plate (snap-on fixing)

for USB charger ref.-no.: USB 15 CA WW, USB 15 CA SW

Thermoplastic (breakproof) high-gloss

ivory	☐	A 1569 USB
white	☐	A 1569 USB WW

USB charger see page 72

Ref.-no.

Centre plate

with supporting frame, screw fixing only

for D-subminiature sockets ref.-no.: D SUB 9

(mounting plate ref.-no. D 9 necessary)

for D-subminiature socket 15-pole

(mounting plate ref.-no. D 15 necessary)

for 1 socket**Thermoplastic (breakproof) high-gloss**

ivory

A 594-1915

white

A 594-1915 WW

Centre plate

with supporting frame, screw fixing only

for D-subminiature socket 25-pole**for 1 socket****Thermoplastic (breakproof) high-gloss**

ivory

A 594-125

white

A 594-125 WW

Centre plate with inscription field 9 x 51 mm

for mounting adapter 30° ref.-no.: 3069..

Thermoplastic (breakproof) high-gloss

ivory

A 569-30 BF PL

white

A 569-30 BF PL WW

Centre plate (snap-on fixing)

with supporting frame, screw fixing only

for universal modular jack socket ref.-no.: UMA-CAT6A

Shutter with spring**for 1 socket****Thermoplastic (breakproof) high-gloss**

ivory

A 1569-1 WE

white

A 1569-1 WE WW

for 2 sockets**Thermoplastic (breakproof) high-gloss**

ivory

A 1569-2 WE

white

A 1569-2 WE WW

for modular jack sockets

RADIALL:

modular jack unshielded 6P6C, RJ 12, Cat. 4 (ref.-no. R280MOD804)

modular jack unshielded 8P8C, RJ 45, Cat. 4 (ref.-no. R280MOD805)

modular jack unshielded 8P8C, RJ 45, Cat. 5e (ref.-no. R280MOD807)

Panduit:

keystone jack KJ 88..

keystone jack KJ 588..

Assmann:

module DN-93612 Cat. 6A, shielded, Keystone

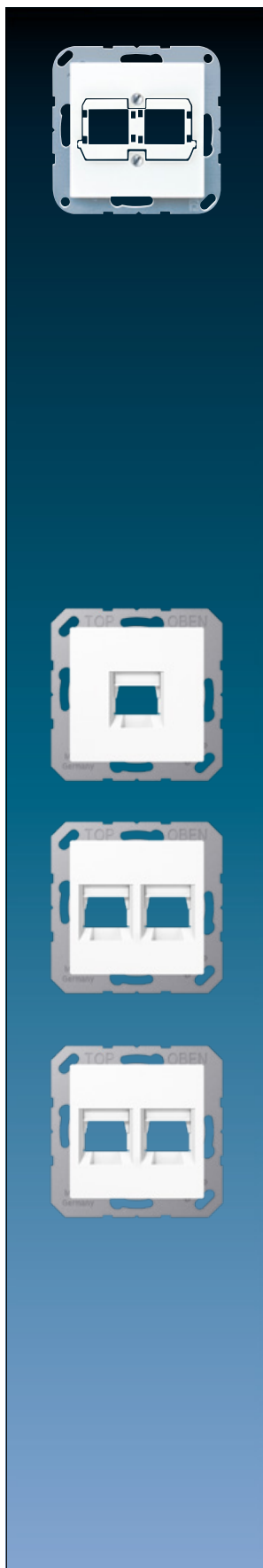
module DN-93614

SCHRACK

HSPMRJ6G1A, HSEMRJ6GBA, HSEMRJ6GBS, HSEMRJ6GWA, HSEMRJ6GWS, HSEMRJ6UWS



AS range



Ref.-no.

Centre plate (screw fixing)

with supporting frame, screw fixing only
for modular jack Reichle + De-Massari freenet classic shielded, cat. 5
only for module 2 x RJ 45
Reichle + De-Massari no. R35252

Duroplastic (scratch-proof) glossy

ivory	☐	A 569-21 ACS
white	☐	A 569-21 ACS WW

Centre plate (snap-on fixing)

with supporting frame, screw fixing only
for modular jack sockets

TE Connectivity (Tyco Electronics / AMP NETCONNECT)

for cable Ø max. 10 mm:
EMT-jack, Cat. 5e, 180° ref.-no. 0-0188650-5
EMT-jack, Cat. 5e, 90° ref.-no. 0-0188650-6
for cable Ø max. 6.5 mm:
EMT-jack, Cat. 5e, 180° ref.-no. 0-0338038-1
EMT-jack, Cat. 5e, 90° ref.-no. 0-0338038-2
Toolless Jack, Cat. 3 unshielded: ref.-no. 0-1116603-x
Toolless Jack, Cat. 5e unshielded: ref.-no. 0-1116604-x,
Toolless Jack, Cat. 5e shielded: ref.-no. 0-1339015-1
Toolless Jack, Cat. 6 unshielded: ref.-no. 0-1116605-x,
Toolless Jack, Cat. 6 shielded: ref.-no. 0-1339016-1
MTRJ-LWL jack: ref.-no. 1278414-1

Shutter with spring for 1 socket

Thermoplastic (breakproof) high-gloss

ivory	☐	A 1569-15 WE
white	☐	A 1569-15 WE WW

for 2 sockets

Thermoplastic (breakproof) high-gloss

ivory	☐	A 1569-25 WE
white	☐	A 1569-25 WE WW

Centre plate (snap-on fixing)

with supporting frame, screw fixing only
for modular jack Avaya (AT&T)
Cat. 3 RJ 45, M1 series: ref.-no. M1BH.., unshielded,
Cat. 5 RJ 45, MPS100 series: ref.-no. MPS100BH.., unshielded,
Cat. 6 RJ 45, MGS200 series: GigaSPEED, ref.-no. MGS200BH.., unshielded

Shutter with spring for 2 sockets

Thermoplastic (breakproof) high-gloss

ivory	☐	A 1569-2 AT
white	☐	A 1569-2 AT WW

Ref.-no.

Centre plate (snap-on fixing)

with supporting frame, screw fixing only

for modular jack cat. 5 / 6 Panduit: CJSE88T, CJS88/588/688, CJ688/688T

**Shutter with spring
for 2 sockets****Thermoplastic (breakproof) high-gloss**

ivory

A 1569-2 PAND

white

A 1569-2 PAND WW

Centre plate (screw fixing)

with supporting frame, screw fixing only

for modular jack ITT

**Shutter with spring
for 2 sockets****Thermoplastic (breakproof) high-gloss**

ivory

A 569-2 NITT

white

A 569-2 NITT WW

other colours on request

Centre plate (screw fixing)

with supporting frame, screw fixing only

for modular jack Lexcom

**Shutter with spring
for 2 sockets****Thermoplastic (breakproof) high-gloss**

ivory

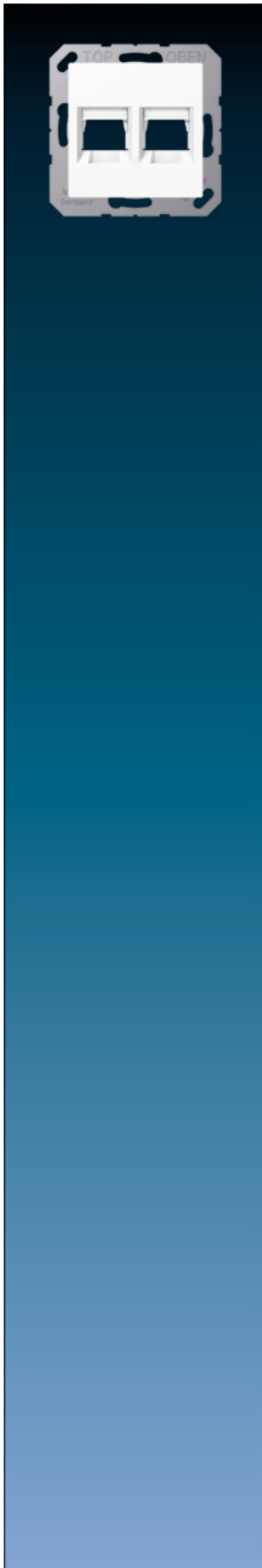
A 569-2 NLEX

white

A 569-2 NLEX WW



AS range



Ref.-no.

Centre plate (snap-on fixing)

with supporting frame, screw fixing only
for modular jack socket Siemon: CT range

Shutter with spring for 2 sockets

Thermoplastic (breakproof) high-gloss

ivory

■ A 1569-2 SIE

white

■ A 1569-2 SIE WW

for modular jack sockets

Siemon

RJ 45, Keystone, cat. 5e, unshielded

Toolless MAX Modules Siemon no. MX-K-C5-80

JUNG

Universal modular jack socket cat. 6A iso, type A: ref.-no. UMA-CAT6A

Radiall

RJ 45, Keystone, cat. 6A, shielded

Radiall no. R280MOD810

Assmann

DIGITUS CAT 6 Keystone Jack

module DN-93612 Cat. 6A, shielded

module DN-93614

module DN-93615

Nexans

RJ45, Keystone, Cat.6

shielded: e.g. LANmark-6 EVO Snap-in bus, Nexans no.: N420.666

unshielded: e.g. LANmark-6 EVO Snap-in bus, Nexans no.: N420.660

necessary: Blue clip for EVO Snap-in connector to keystone format (2,0 ... 2,25 mm)

Nexans no. N429.626

Telegärtner

(RJ45, Keystone, Cat.6A iso, shielded)

e.g. AMJ module K, T568A, Telegärtner-nr. J00029K0036

Furukawa

(RJ45, Keystone, Cat.5e, unshielded)

GigaLan module, Furukawa no. 35050350

Dätwyler

(RJ45, Keystone, Cat.6A, shielded)

unilan Keystone module KS-T 6A 1/8 Toolless, Dätwyler no. 418060

Rutenbeck

(RJ45, Keystone, Cat.6A iso, shielded)

e.g. UM-Cat.6A iso A, Rutenbeck no. 13900304

SCHRACK

HSPMRJ6G1A, HSEMRJ6GBA, HSEMRJ6GBS, HSEMRJ6GWA, HSEMRJ6GWS, HSEMRJ6UWS

Ref.-no.

Centre plate (snap-on fixing)

with supporting frame, screw fixing only
for modular jack socket Brand-Rex

Shutter with spring for 1 socket

Thermoplastic (breakproof) high-gloss

ivory	 A 1569-1 BR
white	 A 1569-1 BR WW

for 2 sockets

Thermoplastic (breakproof) high-gloss

ivory	 A 1569-2 BR
white	 A 1569-2 BR WW

for modular jack sockets

Brand-Rex

(RJ45, Cat.6A, unshielded):

10GPlus Cat6A tool-free jack UTP, Brand-Rex no. AC6JAKU002

10GPlus Cat6A snap in jack UTP, Brand-Rex no. AC6JAKU0K2

AMP NETCONNECT

(RJ45, Cat.6A iso, shielded)

e.g. Twist 6AS SL Jack, AMP no. 0-1711716-1



Potential equalisation socket

with supporting frame, screw fixing only

with 2 one-pole built-in male sockets according to DIN 42801

for wires up to 6 mm²

Duroplastic (scratch-proof) glossy

ivory	 A 565-2
white	 A 565-2 WW

Duroplastic (scratch-proof) glossy – antibacterial

ivory	ABA 565-2
white	ABA 565-2 WW

Right angle plug

for potential equalisation socket




screw terminal for wires with 4 or 6 mm²

65 WIS

Blank centre plate (snap-on fixing)

with supporting frame, screw fixing only

Thermoplastic (breakproof) high-gloss



ivory	 A 594-0
white	 A 594-0 WW
green	 A 594-0 GN

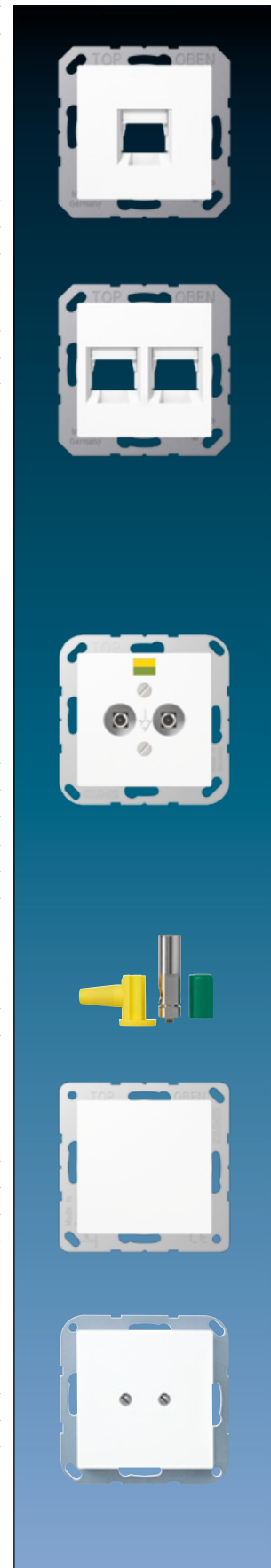
The cover will be installed with snap-on fixing and enables individual cuttings or drilling holes.

Blank centre plate (screw fixing)

with supporting frame, screw fixing only

Duroplastic (scratch-proof) glossy

ivory	 A 561 B
white	 A 561 B WW



AS range



Ref.-no.

Centre plate

with supporting frame, screw fixing only
for commanding appliance with \varnothing 22.5 mm
e.g. Moeller, Rafi, Schlegel, Lumitas, Kraus-Naimer

Duroplastic (scratch-proof) glossy

ivory	IP	A 564
white	IP	A 564 WW
yellow		A 564 GE

Centre plate

for pilot lights ref.-no.: 938-10 U and 938-14 U

Thermoplastic (breakproof) high-gloss

ivory	IP	A 537 BFPL
white	IP	A 537 BFPL WW

Sealing gasket

for covers for pilot light ref.-no.: ..537..., ..937..

IP 37 D

To obtain protection level IP 44 the sealing gasket ref.-no.: 37 D has to be placed into the pilot light centre plate and IP 44 frame has to be used.

Screw cap

for covers for pilot light ref.-no.: ..537..., ..937..

flat, for lamps up to max. length of 35 mm

transparent	37.02
red	37.05
green	37.06
yellow	37.07
blue	37.08

high, for lamps up to max. length of 54 mm

transparent	37
red	37 R
green	37 G
yellow	37 GE
blue	37 BL

Intermediate frame

to install devices with 50 x 50 mm cover (DIN 49075)

Thermoplastic (breakproof) high-gloss

ivory	A 590 Z
white	A 590 Z WW

Ref.-no.


Hinged lid with spring 80.5 x 80.5 mm

with integrated frame


for sockets, switches and push-buttons with centre plate of the AS / A ranges

Thermoplastic (breakproof) high-gloss

ivory

 **AS 581 BFKL**

white

 **AS 581 BFKL WW**

Hinged lid with spring 80.5 x 80.5 mm

with safety lock (24 different locks)

with integrated frame

for sockets, switches and push-buttons with centre plate of the AS / A ranges

Thermoplastic (breakproof) high-gloss

ivory

 **AS 581 BFKLSL**

white

 **AS 581 BFKLSL WW**

Key

(Spare part)

for all hinged lids with safety lock

1 piece

802 SL – 825 SL

When ordering, please indicate lock number!

Sealing gasket

to ensure protection level IP 44

for all flush-mounted switch/push-button inserts of the 500 range, SCHUKO® sockets with hinged lid, rotary switches and timer switch inserts

for all devices, covers and frames with blue "IP 44 marking"

in some cases with additional gaskets acc. to product description



551 WU



AS range




Ref.-no.






Frame for horizontal and vertical installation

Duroplastic (scratch-proof) glossy


ivory

1-gang	80.5 x 80.5 mm		AS 581
2-gang	80.5 x 151.5 mm		AS 582
3-gang	80.5 x 222.5 mm		AS 583
4-gang	80.5 x 293.5 mm		AS 584
5-gang	80.5 x 364.5 mm		AS 585

white






1-gang	80.5 x 80.5 mm		AS 581 WW
2-gang	80.5 x 151.5 mm		AS 582 WW
3-gang	80.5 x 222.5 mm		AS 583 WW
4-gang	80.5 x 293.5 mm		AS 584 WW
5-gang	80.5 x 364.5 mm		AS 585 WW

black




1-gang	80.5 x 80.5 mm		AS 581 SW
--------	----------------	---	------------------

Thermoplastic (breakproof) high-gloss






ivory

1-gang	80.5 x 80.5 mm		AS 581 BF
2-gang	80.5 x 151.5 mm		AS 582 BF
3-gang	80.5 x 222.5 mm		AS 583 BF
4-gang	80.5 x 293.5 mm		AS 584 BF
5-gang	80.5 x 364.5 mm		AS 585 BF





white

1-gang	80.5 x 80.5 mm		AS 581 BF WW
2-gang	80.5 x 151.5 mm		AS 582 BF WW
3-gang	80.5 x 222.5 mm		AS 583 BF WW
4-gang	80.5 x 293.5 mm		AS 584 BF WW
5-gang	80.5 x 364.5 mm		AS 585 BF WW




green

1-gang	80.5 x 80.5 mm		AS 581 BF GN
2-gang	80.5 x 151.5 mm		AS 582 BF GN
3-gang	80.5 x 222.5 mm		AS 583 BF GN
4-gang	80.5 x 293.5 mm		AS 584 BF GN
5-gang	80.5 x 364.5 mm		AS 585 BF GN

orange

1-gang	80.5 x 80.5 mm		AS 581 BF O
2-gang	80.5 x 151.5 mm		AS 582 BF O
3-gang	80.5 x 222.5 mm		AS 583 BF O
4-gang	80.5 x 293.5 mm		AS 584 BF O
5-gang	80.5 x 364.5 mm		AS 585 BF O

red

1-gang	80.5 x 80.5 mm		AS 581 BF RT
2-gang	80.5 x 151.5 mm		AS 582 BF RT
3-gang	80.5 x 222.5 mm		AS 583 BF RT
4-gang	80.5 x 293.5 mm		AS 584 BF RT
5-gang	80.5 x 364.5 mm		AS 585 BF RT

Ref.-no.

Frame**for horizontal and vertical installation****Duroplastic (scratch-proof) glossy – antibacterial****ivory**

1-gang	80.5 x 80.5 mm	IP	ABAS 581 N
2-gang	151.5 x 80.5 mm	IP	ABAS 582 N
3-gang	222.5 x 80.5 mm	IP	ABAS 583 N

white

1-gang	80.5 x 80.5 mm	IP	ABAS 581 N WW
2-gang	151.5 x 80.5 mm	IP	ABAS 582 N WW
3-gang	222.5 x 80.5 mm	IP	ABAS 583 N WW

Frame with inscription field 12 x 55.5 mm**Duroplastic (scratch-proof) glossy**

ivory	1-gang	80.5 x 80.5 mm	IP	AS 581 NA
white	1-gang	80.5 x 80.5 mm	IP	AS 581 NA WW

Duroplastic (scratch-proof) glossy – antibacterial

ivory	1-gang	80.5 x 80.5 mm	IP	ABAS 581 NNA
white	1-gang	80.5 x 80.5 mm	IP	ABAS 581 NNA WW

**Frame with inscription field 12 x 55.5 mm and 13 x 55.5 mm
for vertical installation****Duroplastic (scratch-proof) glossy****ivory**

2-gang	80.5 x 151.5 mm	IP	AS 582 NA
3-gang	80.5 x 222.5 mm	IP	AS 583 NA
4-gang	80.5 x 293.5 mm	IP	AS 584 NA
5-gang	80.5 x 364.5 mm	IP	AS 585 NA

white

2-gang	80.5 x 151.5 mm	IP	AS 582 NA WW
3-gang	80.5 x 222.5 mm	IP	AS 583 NA WW
4-gang	80.5 x 293.5 mm	IP	AS 584 NA WW
5-gang	80.5 x 364.5 mm	IP	AS 585 NA WW

Duroplastic (scratch-proof) glossy – antibacterial**ivory**

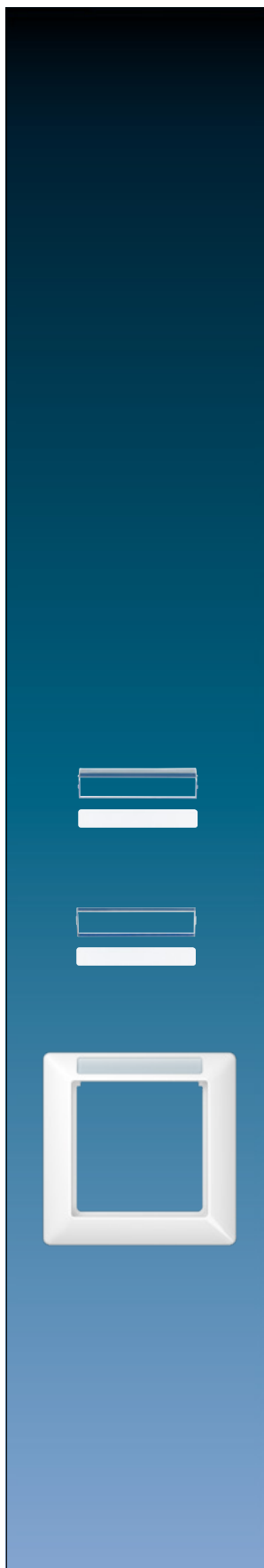
2-gang	80.5 x 151.5 mm	IP	ABAS 582 NNA
--------	-----------------	----	---------------------

white

2-gang	80.5 x 151.5 mm	IP	ABAS 582 NNA WW
--------	-----------------	----	------------------------



AS range



Ref.-no.

**Frame with inscription field 12 x 55.5 mm
for horizontal installation**

**Duroplastic (scratch-proof) glossy
ivory**

2-gang	151.5 x 80.5 mm		AS 5820 NA
3-gang	222.5 x 80.5 mm		AS 5830 NA
4-gang	293.5 x 80.5 mm		AS 5840 NA
5-gang	364.5 x 80.5 mm		AS 5850 NA

white

2-gang	151.5 x 80.5 mm		AS 5820 NA WW
3-gang	222.5 x 80.5 mm		AS 5830 NA WW
4-gang	293.5 x 80.5 mm		AS 5840 NA WW
5-gang	364.5 x 80.5 mm		AS 5850 NA WW



Transparent cover with paper inlay

for inscription field 12 x 55.5 mm

(Spare part)

paper inlay white

AS 81 NA

Transparent cover with paper inlay

for inscription field 13 x 55.5 mm

(Spare part)

paper inlay white

AS 82 NA

Frame

with window (moisture-proof) 55.6 x 9.2 mm

including inscription module ref.-no.: AS 81 INA BT

also suitable for inscription module AS 81-1 INA BT

When the frame is removed, the inscription module remains latched onto the supporting frame.

Thermoplastic (breakproof) high-gloss

ivory	1-gang	80.5 x 80.5 mm	AS 581 BF INA
white	1-gang	80.5 x 80.5 mm	AS 581 BF INA WW

Ref.-no.

Frame**for vertical installation**

with window (moisture-proof) 55.6 x 9.2 mm and 54.2 x 10.9 mm

including inscription module ref.-no.: AS 81 INA BT and AS 82 INA BT

also suitable for inscription module AS 81-1 INA BT and AS 82-1 INA BT

When the frame is removed, the inscription module remains latched onto the supporting frame.

Thermoplastic (breakproof) high-gloss**ivory**

2-gang	80.5 x 151.5 mm	AS 582 BF INA
3-gang	80.5 x 222.5 mm	AS 583 BF INA
4-gang	80.5 x 293.5 mm	AS 584 BF INA
5-gang	80.5 x 364.5 mm	AS 585 BF INA

white

2-gang	80.5 x 151.5 mm	AS 582 BF INA WW
3-gang	80.5 x 222.5 mm	AS 583 BF INA WW
4-gang	80.5 x 293.5 mm	AS 584 BF INA WW
5-gang	80.5 x 364.5 mm	AS 585 BF INA WW

Frame**for horizontal installation**

with window (moisture-proof) 55.6 x 9.2 mm

including inscription module ref.-no.: AS 81 INA BT

also suitable for inscription module AS 81-1 INA BT

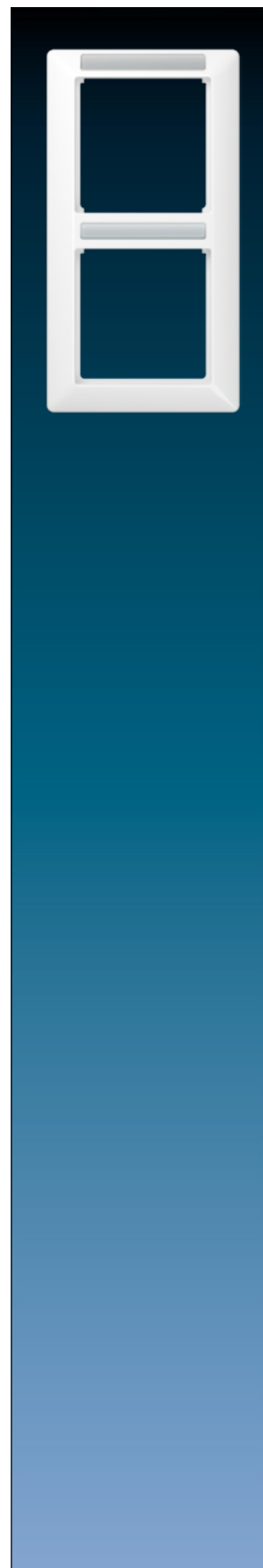
When the frame is removed, the inscription module remains latched onto the supporting frame.

Thermoplastic (breakproof) high-gloss**ivory**

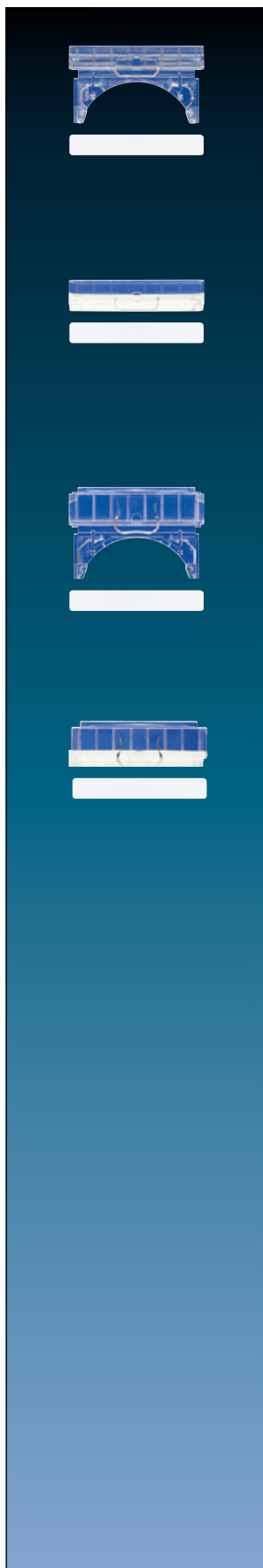
2-gang	151.5 x 80.5 mm	AS 5820 BF INA
3-gang	222.5 x 80.5 mm	AS 5830 BF INA
4-gang	293.5 x 80.5 mm	AS 5840 BF INA
5-gang	364.5 x 80.5 mm	AS 5850 BF INA

white

2-gang	151.5 x 80.5 mm	AS 5820 BF INA WW
3-gang	222.5 x 80.5 mm	AS 5830 BF INA WW
4-gang	293.5 x 80.5 mm	AS 5840 BF INA WW
5-gang	364.5 x 80.5 mm	AS 5850 BF INA WW



AS range



Ref.-no.

Inscription module 53.5 x 10 mm
snap-on fixing, only for JUNG supporting frame

(Spare part)

Only in combination with frame ref.-no. AS 581 BF INA..., AS 5820 BF INA..., AS 5830 BF INA..., AS 5840 BF INA..., and for the top segment of frame AS 5850 BF INA..., AS 582 BF INA..., AS 583 BF INA..., AS 584 BF INA..., AS 585 BF INA..

(application: moisture-proof inscription field)

AS 81 INA BT

Inscription module 53.5 x 10 mm
adhesive fixing, only for non-JUNG supporting frame

Only in combination with frame ref.-no. AS 581 BF INA..., AS 5820 BF INA..., AS 5830 BF INA...,

AS 5840 BF INA..., and for the top segment of frame AS 5850 BF INA..., AS 582 BF INA..., AS 583 BF INA..., AS 584 BF INA..., AS 585 BF INA..

(application: moisture-proof inscription field)

AS 81-1 INA BT

Inscription module 53.5 x 10 mm
snap-on fixing, only for JUNG supporting frame
only suitable for multigang frames (vertical installation)

(Spare part)

Only in combination with frame ref.-no. AS 582 BF INA..., AS 583 BF INA..., AS 584 BF INA..., AS 585 BF INA.. for the 2nd up to the 5th segment.

(application: moisture-proof inscription field)

AS 82 INA BT

Inscription module 53.5 x 10 mm
adhesive fixing, only for non-JUNG supporting frame
only suitable for multigang frames (vertical installation)

Only in combination with frame ref.-no. AS 582 BF INA..., AS 583 BF INA..., AS 584 BF INA..., AS 585 BF INA.. for the 2nd up to the 5th segment.

(application: moisture-proof inscription field)

AS 82-1 INA BT

Ref.-no.

Surface cap

with integrated frame and non-flammable ground plate
for inserts with covers of the AS range (except key switches ref.-no. ...15,
3-level-switch and socket for Switzerland type 13)
1-gang, 85 x 85 x 47 mm

Duroplastic (scratch-proof) glossy

ivory	AS 581 A W
white	AS 581 A WW

2-gang, 156 x 85 x 47 mm

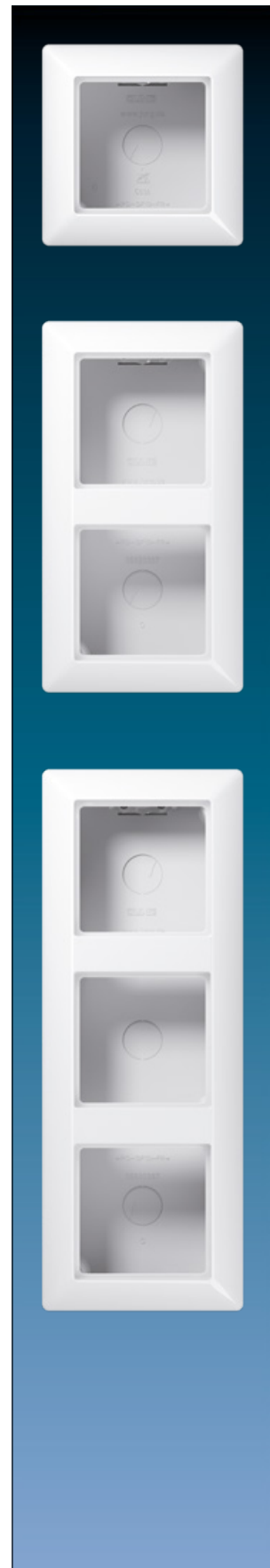
Duroplastic (scratch-proof) glossy

ivory	AS 582 A W
white	AS 582 A WW

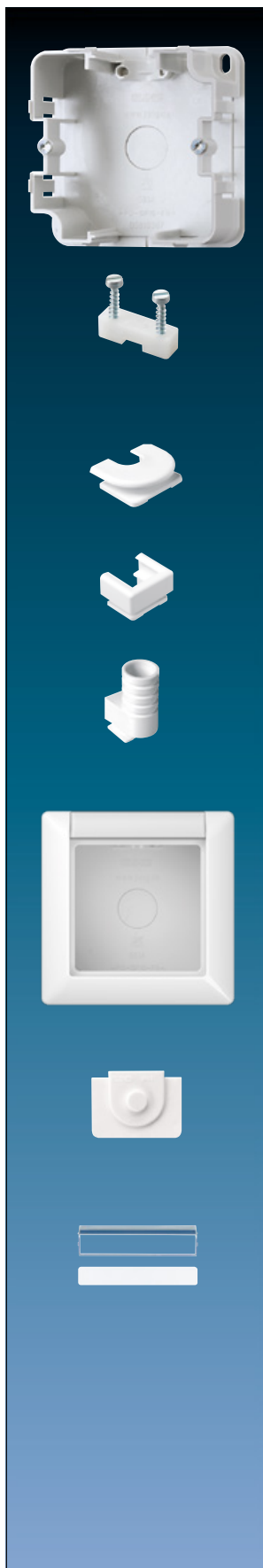
3-gang, 227 x 85 x 47 mm

Duroplastic (scratch-proof) glossy

ivory	AS 583 A W
white	AS 583 A WW



AS range



	Ref.-no.
Mounting box for surface caps	
(Spare part)	
1-gang	581 A
2-gang	582 A
3-gang	583 A
Strain relief for surface caps	
for cables 3 x 1.5 mm ² up to 5 x 2.5 mm ² (Ø 7 up to 13 mm)	
	58 A ZUG
Inlets for cables, pipes and trunkings in surface caps	
for cable and mini trunking	
ivory	11
white	11 WW
for trunking 15 x 15 mm	
ivory	12
white	12 WW
for pipes with outside Ø 16 mm	
ivory	13
white	13 WW
Surface cap with inscription field 12 x 55.5 mm	
with integrated frame, non-flammable ground plate and 2 cable inlets	
for inserts with covers of the AS range (except key switches ref.-no. ..15, 3-level-switch and socket for Switzerland type 13)	
1-gang, 85 x 85 x 47 mm	
Thermoplastic (breakproof) high-gloss	
ivory	AS 581 ANA W
white	AS 581 ANA WW
Cable inlet	
for surface caps ref.-no.: AS 581 ANA W, AS 581 ANA WW	
(Spare part)	
without press cut	
white	15 WW
Transparent cover with paper inlay	
for inscription field 12 x 55.5 mm	
(Spare part)	
paper inlay white	AS 81 NA

Ref.-no.

1-gang switch insert 10 AX / 250 V ~

Screwless terminals for wires up to 2.5 mm²
with integrated LED insert

Only in combination with frame ref.-no. AS 581-1 BF INA.. and inscription module ref.-no. AS 61 INA BT
(application: illuminated inscription field)

The LED insert is replaceable.

Connection via 2 stranded wires (brown/blue), approx. 220 mm long.

It can be connected directly to AC 230 V ~ or via switch.

Installation into flush box min. 63 mm (depth)

with white LEDs

1-pole, 2-way

506 U-LEDW

1-gang push-button insert 10 A / 250 V ~

Screwless terminals for wires up to 2.5 mm²
with integrated LED insert

Only in combination with frame ref.-no. AS 581-1 BF INA.. and inscription module ref.-no. AS 61 INA BT
(application: illuminated inscription field)

The LED insert is replaceable.

Connection via 2 stranded wires (brown/blue), approx. 220 mm long.

It can be connected directly to AC 230 V ~ or via switch.

Installation into flush box min. 63 mm (depth)

with white LEDs

1-pole, 2-way with terminal for N conductor

533 U-LEDW

Inscription module 53.5 x 10 mm

Only in combination with frame ref.-no. AS 581-1 BF INA...

(application: moisture-proof inscription field)

AS 61 INA BT

Frame

with window (moisture-proof) 55.6 x 9.2 mm and 54.2 x 10.9 mm

Only in combination with switch insert ref.-no.: 506 U-LEDW, push button insert ref.-no.: 533 U-LEDW
or SCHUKO® socket ref.-no.: A 520-O BF .. LEDW and inscription module ref.-no.: AS 61 INA BT

(application: illuminated inscription field)

Thermoplastic (breakproof) high-gloss

ivory	1-gang	80.5 x 80.5 mm	AS 581-1 BF INA
white	1-gang	80.5 x 80.5 mm	AS 581-1 BF INA WW

LED insert

(Spare part)

for SCHUKO® socket ref.-no.: A 520-O BF .. LEDW

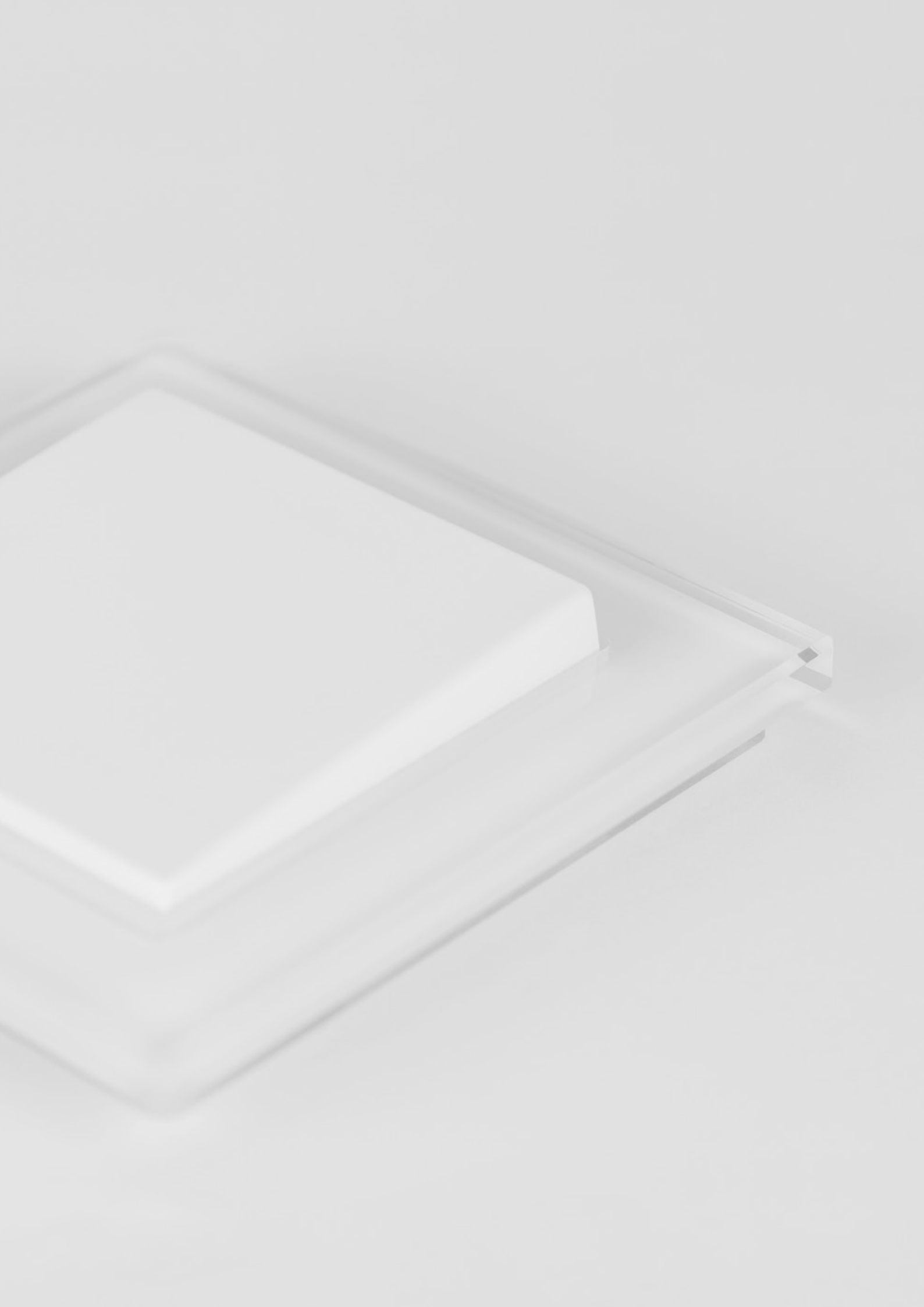
for switch insert ref.-no.: 506 U-LEDW

for push-button insert ref.-no.: 533 U-LEDW

with white LEDs

520-O LEDW-2

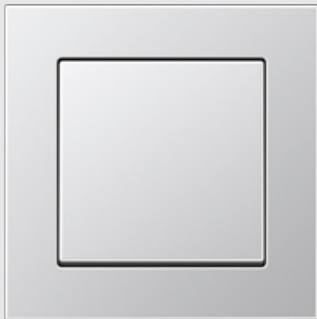




A range



A CREATION with Glass frame in blue-grey



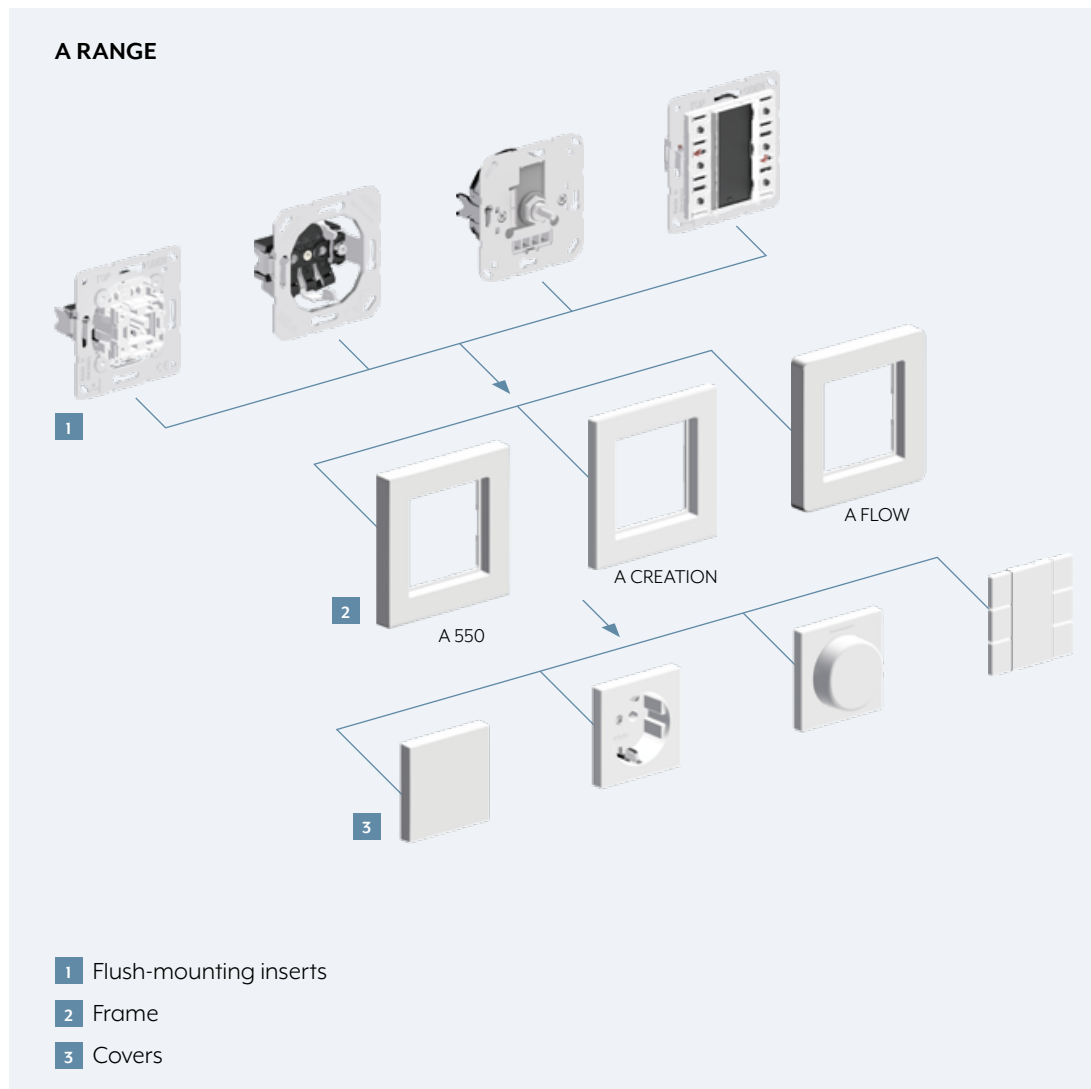
A 550 in aluminium



A FLOW in matt snow white

The A range sets accents in every room. It is impressive with its clear design and selection of materials. All inserts have the dimensions of 55 x 55 mm. The single to 5-gang frames can be fitted horizontally or vertically.



A range – modular system





The wide product palette of the A range meets all technical requirements in private and commercial construction. Lighting, blind and temperature control, door communication, multimedia control, eNet SMART HOME and KNX can all be implemented from a single source. The JUNG modular system combines the inserts with the respective appropriate cover and design frame to form a functional unit.

Colours and materials







Duroplastic (scratch-proof), glossy

white	similar to RAL 9016	
black	similar to RAL 9005	

Thermoplastic (breakproof) high-gloss

white	similar to RAL 9016	
black	similar to RAL 9005	





Duroplastic / Thermoplastic (breakproof) lacquered

aluminium	
champagne	
mocha	
matt anthracite	
matt snow white	
matt graphite black	

Glass

Tempered safety glass (TSG), depending on the version, the rear side is printed or dyed through

Selected items are also available in other colours

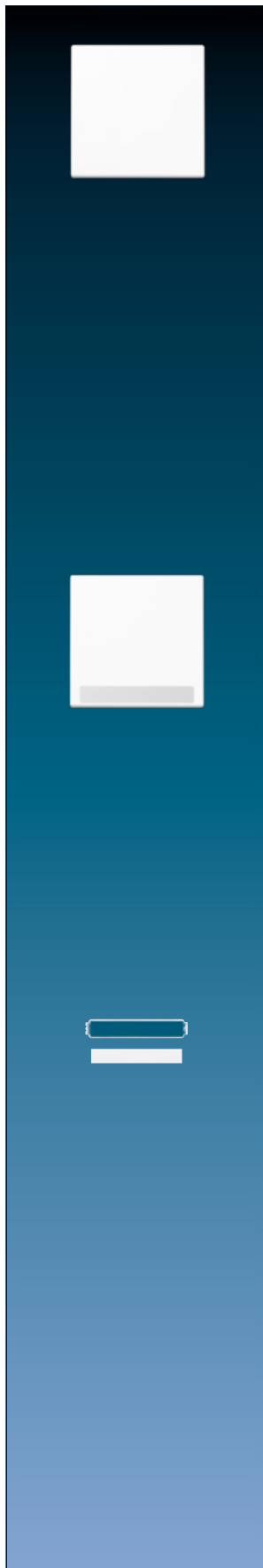
blue	similar to RAL 5013	
green	similar to RAL 6029	
orange	similar to RAL 2004	
red	similar to RAL 3003	

Covers	392
Sockets	400
LB Management	416
eNet	419
Temperature Management	423
SAT / TV	427
Data connectors	430
Telephone	431

The following products are available in the A range

Multimedia connection systems	47
USB charger	60
Smart Radio DAB+	76
Hospital installations	94
Hotel installations	104
Plug & Light	138
Door communication	144
F 50	660
F 40	670
F 10	680

A range



Ref.-no.

1-gang rocker

for switch insert ref.-no.: 501 U, 502 U, 503 U, 506 U, 507 U, 501-20 U, 506-20 U, 507-20 U

for push switch insert ref.-no.: 502 TU, 506 TU, 507 TU

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U

Duroplastic (scratch-proof) glossy

white	IP P	A 590 WW
-------	------	----------

black	IP	A 590 SW
-------	----	----------

Duroplastic lacquered

aluminium	IP P L	A 590 AL
-----------	--------	----------

champagne	IP P	A 590 CH
-----------	------	----------

mocha	IP	A 590 MO
-------	----	----------

Thermoplastic (breakproof) high-gloss

white	IP L	A 590 BF WW
-------	------	-------------

black	IP L	A 590 BF SW
-------	------	-------------

matt lacquered

matt snow white	IP	A 590 WWM
-----------------	----	-----------

matt graphite black	IP	A 590 SWM
---------------------	----	-----------

matt anthracite	IP	A 590 BF ANM
-----------------	----	--------------

For illuminated inserts use rocker with lens ref.-no.: ..KO...

1-gang rocker with inscription field 6 x 46 mm

for switch insert ref.-no.: 501 U, 502 U, 503 U, 506 U, 507 U, 501-20 U, 506-20 U, 507-20 U

for push switch insert ref.-no.: 502 TU, 506 TU, 507 TU

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U

Thermoplastic (breakproof) high-gloss

white	IP L	A 590 BF NA WW
-------	------	----------------

black	IP L	A 590 BF NA SW
-------	------	----------------

Thermoplastic (breakproof) lacquered

aluminium	IP P L	A 590 BF NA AL
-----------	--------	----------------

champagne	IP P	A 590 BF NA CH
-----------	------	----------------

mocha	IP	A 590 BF NA MO
-------	----	----------------

matt lacquered

matt snow white	IP	A 590 BF NA WWM
-----------------	----	-----------------

matt graphite black	IP	A 590 BF NA SWM
---------------------	----	-----------------

matt anthracite	IP	A 590 BF NA ANM
-----------------	----	-----------------

For illuminated inserts use rocker with lens ref.-no.: ..KO...

Transparent cover with paper inlay

for inscription field 6 x 46 mm

(Spare part)

paper inlay white	A 20 NA
-------------------	---------

Ref.-no.

1-gang rocker with lens



for switch insert with indicator light

ref.-no.: 502 KOU, 503 KOU, 506 KOU, 501-20 KOU, 502-20 KOU, 506-20 KOU




for push switch insert with indicator light ref.-no.: 502 KOTU, 506 KOTU

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U





Duroplastic (scratch-proof) glossy

white	 	A 590 KO5 WW
black		A 590 KO5 SW




Duroplastic lacquered

aluminium	  	A 590 KO5 AL
champagne	 	A 590 KO5 CH
mocha		A 590 KO5 MO

Thermoplastic (breakproof) high-gloss

white	 	A 590 BF KO5 WW
black	 	A 590 BF KO5 SW

matt lacquered

matt snow white		A 590 KO5 WWM
matt graphite black		A 590 KO5 SWM
matt anthracite		A 590 BF KO5 ANM

1-gang rocker with lens and inscription field 6 x 46 mm





for switch insert with indicator light

ref.-no.: 502 KOU, 503 KOU, 506 KOU, 501-20 KOU, 502-20 KOU, 506-20 KOU







for push switch insert with indicator light ref.-no.: 502 KOTU, 506 KOTU

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U




Thermoplastic (breakproof) high-gloss

white	 	A 590 BF NA KO5 WW
black	 	A 590 BF NA KO5 SW

Thermoplastic (breakproof) lacquered

aluminium	  	A 590 BF NA KO5 AL
champagne	 	A 590 BF NA KO5 CH
mocha		A 590 BF NA KO5 MO

matt lacquered

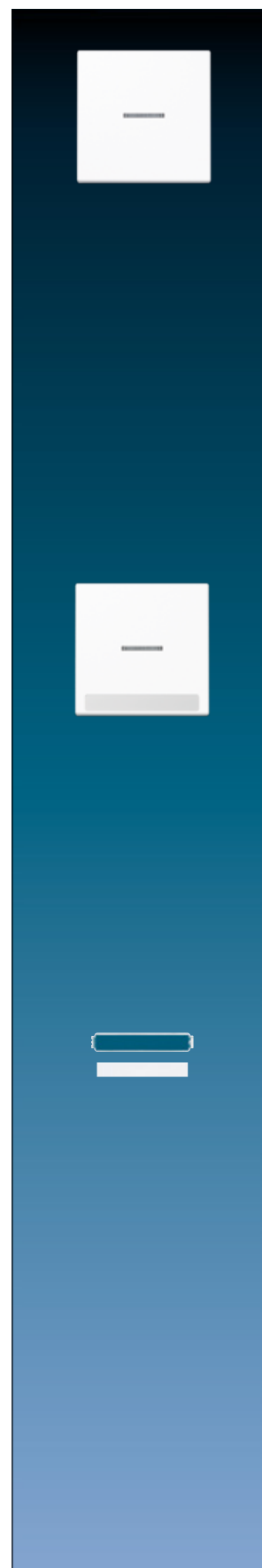
matt snow white		A 590 BF NA KO5 WWM
matt graphite black		A 590 BF NA KO5 SWM
matt anthracite		A 590 BF NA KO5 ANM

Transparent cover with paper inlay

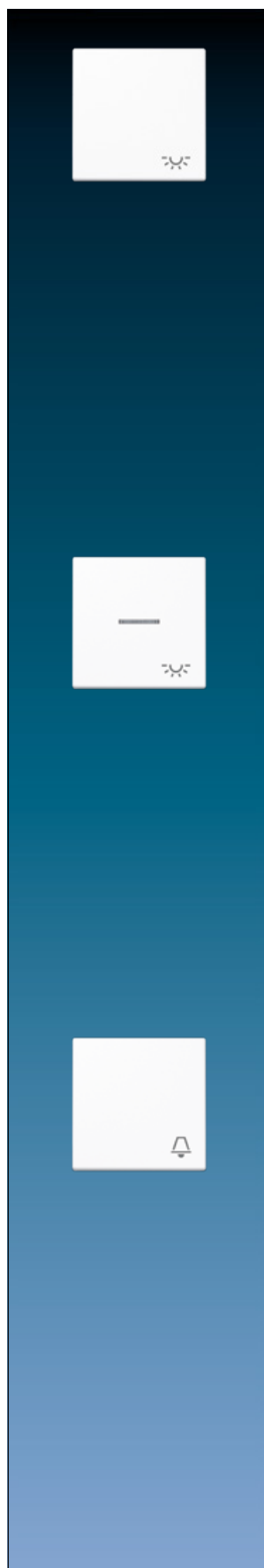
for inscription field 6 x 46 mm

(Spare part)

paper inlay white	A 20 NA
-------------------	----------------



A range



Ref.-no.

1-gang rocker with symbol "light"

for switch insert ref.-no.: 501 U, 502 U, 503 U, 506 U, 507 U, 501-20 U, 506-20 U, 507-20 U

for push switch insert ref.-no.: 502 TU, 506 TU, 507 TU

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U

Duroplastic (scratch-proof) glossy

white	IP	A 590 L WW
-------	----	------------

black	IP	A 590 L SW
-------	----	------------

Duroplastic lacquered

aluminium	IP	A 590 L AL
-----------	----	------------

champagne	IP	A 590 L CH
-----------	----	------------

mocha	IP	A 590 L MO
-------	----	------------

Thermoplastic (breakproof) high-gloss

white	IP	A 590 BF L WW
-------	----	---------------

black	IP	A 590 BF L SW
-------	----	---------------

matt lacquered

matt snow white	IP	A 590 L WWM
-----------------	----	-------------

matt graphite black	IP	A 590 L SWM
---------------------	----	-------------

matt anthracite	IP	A 590 BF L ANM
-----------------	----	----------------

1-gang rocker with symbol "light", with lens

for switch insert with indicator light

ref.-no.: 502 KOU, 503 KOU, 506 KOU, 501-20 KOU, 502-20 KOU, 506-20 KOU

for push switch insert with indicator light ref.-no.: 502 KOTU, 506 KOTU

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

Duroplastic (scratch-proof) glossy

white	IP	A 590 KO5 L WW
-------	----	----------------

black	IP	A 590 KO5 L SW
-------	----	----------------

Duroplastic lacquered

aluminium	IP	A 590 KO5 L AL
-----------	----	----------------

champagne	IP	A 590 KO5 L CH
-----------	----	----------------

mocha	IP	A 590 KO5 L MO
-------	----	----------------

Thermoplastic (breakproof) high-gloss

white	IP	A 590 BFKO5 L WW
-------	----	------------------

black	IP	A 590 BFKO5 L SW
-------	----	------------------

matt lacquered

matt anthracite	IP	A 590 BFKO5 L ANM
-----------------	----	-------------------

1-gang rocker with symbol "bell"

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U

Duroplastic (scratch-proof) glossy

white	IP	A 590 K WW
-------	----	------------

black	IP	A 590 K SW
-------	----	------------

Duroplastic lacquered

aluminium	IP	A 590 K AL
-----------	----	------------

champagne	IP	A 590 K CH
-----------	----	------------

mocha	IP	A 590 K MO
-------	----	------------

Thermoplastic (breakproof) high-gloss

white	IP	A 590 BF K WW
-------	----	---------------

black	IP	A 590 BF K SW
-------	----	---------------

matt lacquered

matt snow white	IP	A 590 K WWM
-----------------	----	-------------

matt graphite black	IP	A 590 K SWM
---------------------	----	-------------

matt anthracite	IP	A 590 BF K ANM
-----------------	----	----------------

Ref.-no.

1-gang rocker with symbol "bell", with lens

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

Duroplastic (scratch-proof) glossy

white	IP	A 590 KO5 K WW
black	IP	A 590 KO5 K SW

Duroplastic lacquered

aluminium	IP	A 590 KO5 K AL
champagne	IP	A 590 KO5 K CH
mocha	IP	A 590 KO5 K MO

Thermoplastic (breakproof) high-gloss

white	IP	A 590 BFKO5 K WW
black	IP	A 590 BFKO5 K SW

matt lacquered

matt anthracite	IP	A 590 BFKO5 K ANM
-----------------	----	-------------------

1-gang rocker with symbol "door"

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U

Duroplastic (scratch-proof) glossy

white	IP	A 590 T WW
black	IP	A 590 T SW

Duroplastic lacquered

aluminium	IP	A 590 T AL
champagne	IP	A 590 T CH
mocha	IP	A 590 T MO

Thermoplastic (breakproof) high-gloss

white	IP	A 590 BF T WW
black	IP	A 590 BF T SW

matt lacquered

matt snow white	IP	A 590 T WWM
matt graphite black	IP	A 590 T SWM
matt anthracite	IP	A 590 BF T ANM

1-gang rocker with symbol "door", with lens

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

Duroplastic (scratch-proof) glossy

white	IP	A 590 KO5 T WW
black	IP	A 590 KO5 T SW

Duroplastic lacquered

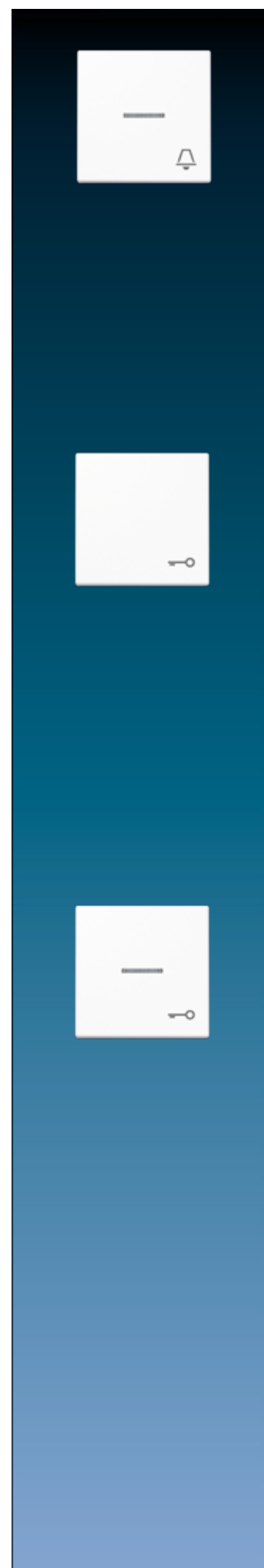
aluminium	IP	A 590 KO5 T AL
champagne	IP	A 590 KO5 T CH
mocha	IP	A 590 KO5 T MO

Thermoplastic (breakproof) high-gloss

white	IP	A 590 BFKO5 T WW
black	IP	A 590 BFKO5 T SW

matt lacquered

matt anthracite	IP	A 590 BFKO5 T ANM
-----------------	----	-------------------



A range



Ref.-no.

Barrier-free living

1-gang rocker with tactile symbol "light", with lens

for switch insert with indicator light

ref.-no.: 502 KOU, 503 KOU, 506 KOU, 501-20 KOU, 502-20 KOU, 506-20 KOU

for push switch insert with indicator light ref.-no.: 502 KOTU, 506 KOTU

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

Duroplastic (scratch-proof) glossy

white



A 590 L1KO WW

Duroplastic lacquered

aluminium



A 590 L1KO AL

For improved visibility use frame in contrasting black colour.

Barrier-free living

1-gang rocker with tactile symbol "bell", with lens

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

Duroplastic (scratch-proof) glossy

white



A 590 K1KO WW

Duroplastic lacquered

aluminium



A 590 K1KO AL

For improved visibility use frame in contrasting black colour.

Barrier-free living

1-gang rocker with tactile symbol "door", with lens

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

Duroplastic (scratch-proof) glossy

white



A 590 T1KO WW

Duroplastic lacquered

aluminium



A 590 T1KO AL

For improved visibility use frame in contrasting black colour.

1-gang rocker, transparent

for switch insert ref.-no.: 501 U, 502 U, 503 U, 506 U, 507 U, 501-20 U, 506-20 U, 507-20 U

for push switch insert ref.-no.: 502 TU, 506 TU, 507 TU

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U

for individual text or decorative inlets (e.g. wall paper)

Thermoplastic (breakproof) high-gloss

inscription field 50 x 50 mm

A 590 NA GL

Plastic cover with paper inlay

for inscription field 50 x 50 mm

(Spare part)

Thermoplastic (breakproof) high-gloss

paper inlay white

A 590 NA GL PL

Holder plate

for frame fixing and 1-gang rocker bearing

(Spare part)

black

AS 90 HP

Ref.-no.

Pull cord switch 10 AX / 250 V ~

for wall and ceiling installation
Screw terminals for wires up to 2.5 mm²
with 50 mm pull cord

Thermoplastic (breakproof) high-gloss

white	IP	L	A 506 BF NUZ WW
black	IP	L	A 506 BF NUZ SW

Thermoplastic (breakproof) lacquered

aluminium	IP	P	L	A 506 BF NUZ AL
champagne	IP	P		A 506 BF NUZ CH
mocha	IP			A 506 BF NUZ MO

matt lacquered

matt snow white	IP			A 506 BF NUZ WWM
matt graphite black	IP			A 506 BF NUZ SWM
matt anthracite	IP			A 506 BF NUZ ANM

Other pull cord devices can be realised with pull cord insert 34 KO5
and 1-gang rocker with transparent lens A 590 KO5 ..

2-gang rocker

for switch insert ref.-no.: 505 U, 509 U
for push switch insert ref.-no.: 505 TU, 509 TU
for push-button insert ref.-no.: 535 U, 539 U

Duroplastic (scratch-proof) glossy

white	IP	P	A 595 WW
black	IP		A 595 SW

Duroplastic lacquered

aluminium	IP	P	L	A 595 AL
champagne	IP	P		A 595 CH
mocha	IP			A 595 MO

Thermoplastic (breakproof) high-gloss

white	IP	L	A 595 BF WW
black	IP	L	A 595 BF SW

matt lacquered

matt snow white	IP			A 595 WWM
matt graphite black	IP			A 595 SWM
matt anthracite	IP			A 595 BF ANM

For illuminated inserts use rocker with lens ref.-no.: ..KO...

2-gang rocker with lens

for switch insert ref.-no.: 505 U 5
for switch insert with indicator light ref.-no.: 505 KOU 5
for push-button insert ref.-no.: 535 U 5

Duroplastic (scratch-proof) glossy

white	IP	P	A 595 KO5 WW
black	IP		A 595 KO5 SW

Duroplastic lacquered

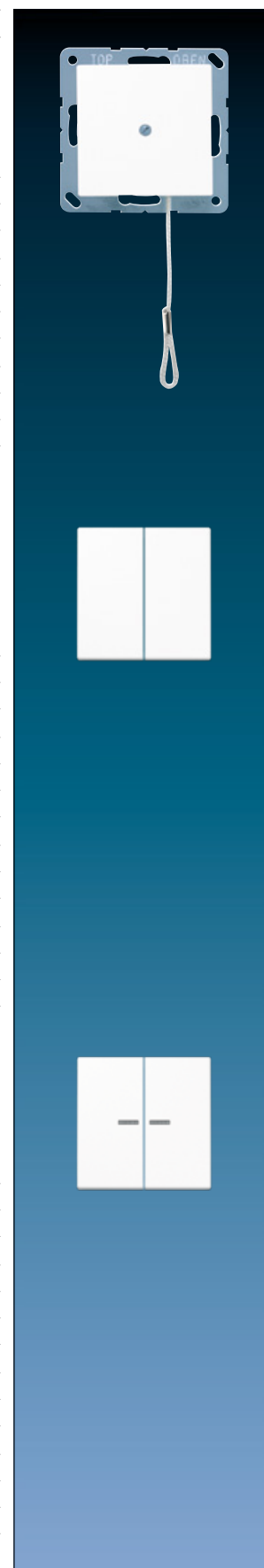
aluminium	IP	P	L	A 595 KO5 AL
champagne	IP	P		A 595 KO5 CH
mocha	IP			A 595 KO5 MO

Thermoplastic (breakproof) high-gloss

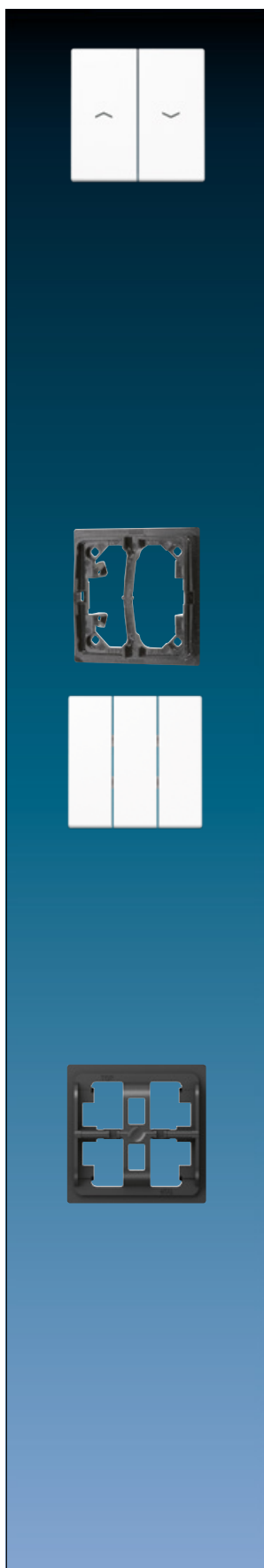
white	IP	L	A 595 BF KO5 WW
black	IP	L	A 595 BF KO5 SW

matt lacquered

matt snow white	IP			A 595 KO5 WWM
matt graphite black	IP			A 595 KO5 SWM
matt anthracite	IP			A 595 BF KO5 ANM



A range



Ref.-no.

2-gang rocker with arrow symbols

for blind switch insert ref.-no.: 509 VU
for blind push-button insert ref.-no.: 539 VU

Duroplastic (scratch-proof) glossy

white	IP	A 595 P WW
black	IP	A 595 P SW

Duroplastic lacquered

aluminium	IP	A 595 P AL
champagne	IP	A 595 P CH
mocha	IP	A 595 P MO

Thermoplastic (breakproof) high-gloss

white	IP	A 595 BF P WW
black	IP	A 595 BF P SW

matt lacquered

matt snow white	IP	A 595 P WWM
matt graphite black	IP	A 595 P SWM
matt anthracite	IP	A 595 BF P ANM

Holder plate

for frame fixing and 2-gang rocker bearing
(Spare part)

black	AS 90-5 HP
-------	------------

3-gang rocker

for 3-gang switch insert ref.-no.: 5301 EU, 5306 EU

Thermoplastic (breakproof) high-gloss

white	L	A 593 BF WW
black	L	A 593 BF SW

Thermoplastic (breakproof) lacquered

aluminium	P L	A 593 BF AL
champagne	P	A 593 BF CH
mocha		A 593 BF MO

matt lacquered

matt snow white	A 593 BF WWM
matt graphite black	A 593 BF SWM
matt anthracite	A 593 BF ANM

Holder plate

for frame fixing and 3-gang rocker bearing
(Spare part)

black	A 93 HP
-------	---------

Ref.-no.

Centre plate

for key switch inserts ref.-no.: 104.28, 134.18, 134.28, 133.18, 138.18, 106.28

for key switch inserts IP 44 ref.-no.: CD 104.18 WU, CD 134.18 WU, CD 133.18 WU, CD 106.18 WU

Thermoplastic (breakproof) high-gloss

white	IP	L	A 528 PL WW
black	IP	L	A 528 PL SW

Thermoplastic (breakproof) lacquered

aluminium	IP	P	L	A 528 PL AL
champagne	IP	P	A 528 PL CH	
mocha	IP	A 528 PL MO		

matt lacquered

matt snow white	IP	A 528 PL WWM
matt graphite black	IP	A 528 PL SWM
matt anthracite	IP	A 528 PL ANM

One escutcheon plate with symbols and one without symbols included in delivery.

Height of escutcheon plate: 11 mm

Centre plate

for key switch inserts ref.-no.: 104.15, 134.15, 133.15, 106.15

Thermoplastic (breakproof) high-gloss

white	L	A 525 PL WW
black	L	A 525 PL SW

Thermoplastic (breakproof) lacquered

aluminium	P	L	A 525 PL AL
champagne	P	A 525 PL CH	
mocha	A 525 PL MO		

Centre plate with knob

for rotary switch insert ref.-no.: 1101-4, 1101-20

for timer switch insert ref.-no.: 11015, 11120-20

for rotary blind switch insert ref.-no.: 1234.10, 1234.20

Duroplastic (scratch-proof) glossy

white	IP	P	A 1541 WW
black	IP	A 1541 SW	

Duroplastic lacquered

aluminium	IP	P	L	A 1541 AL
champagne	IP	P	A 1541 CH	
mocha	IP	A 1541 MO		

Thermoplastic (breakproof) high-gloss

white	IP	L	A 1541 BF WW
black	IP	L	A 1541 BF SW

matt lacquered

matt snow white	IP	A 1541 BF WWM
matt graphite black	IP	A 1541 BF SWM
matt anthracite	IP	A 1541 BF ANM

also for volume control WHD type: LST..JU UP and LR..JU UP

and for program selection WHD type: PRO 3 JU..



A range



Ref.-no.

SCHUKO® socket 16 A / 250 V ~

Screwless terminals for wires up to 2.5 mm²

Without claws: ref.-no. with additional "N", e.g.: ..1520 N..

With screw terminals: ref.-no. ..1521..

Supporting frame, claws and claw screws are integrated into the earth protection.

Duroplastic (scratch-proof) glossy

white	P	A 1520 WW
black		A 1520 SW

Duroplastic lacquered

aluminium	P L	A 1520 AL
champagne	P	A 1520 CH
mocha		A 1520 MO

Thermoplastic (breakproof) high-gloss

white	L	A 1520 BF WW
black	L	A 1520 BF SW
blue		A 1520 BF BL
green		A 1520 BF GN
orange		A 1520 BF O
red		A 1520 BF RT

matt lacquered

matt snow white		A 1520 BF WWM
matt graphite black		A 1520 BF SWM
matt anthracite		A 1520 BF ANM

SCHUKO® socket 16 A / 250 V ~

with enhanced contact protection (shutter)

Screwless terminals for wires up to 2.5 mm²

Without claws: ref.-no. with additional "N", e.g.: ..1520 N..

With screw terminals: ref.-no. ..1521..

Supporting frame, claws and claw screws are integrated into the earth protection.

Duroplastic (scratch-proof) glossy

white	P	A 1520 KI WW
black		A 1520 KI SW

Duroplastic lacquered

aluminium	P L	A 1520 KI AL
champagne	P	A 1520 KI CH
mocha		A 1520 KI MO

Thermoplastic (breakproof) high-gloss

white	L	A 1520 BFKI WW
black	L	A 1520 BFKI SW
blue		A 1520 BFKI BL
green		A 1520 BFKI GN
orange		A 1520 BFKI O
red		A 1520 BFKI RT

matt lacquered

matt snow white		A 1520 BFKI WWM
matt graphite black		A 1520 BFKI SWM
matt anthracite		A 1520 BFKI ANM


Ref.-no.

SCHUKO® socket 16 A / 250 V ~




Screw terminals for wires up to 2.5 mm²

Supporting frame, claws and claw screws are integrated into the earth protection.



Duroplastic (scratch-proof) glossy

white		A 1521 WW
black		A 1521 SW

Duroplastic lacquered

aluminium	 	A 1521 AL
champagne		A 1521 CH
mocha		A 1521 MO

Thermoplastic (breakproof) high-gloss

white		A 1521 BF WW
black		A 1521 BF SW
green		A 1521 BF GN
orange		A 1521 BF O

matt lacquered

matt snow white		A 1521 BF WWM
matt graphite black		A 1521 BF SWM
matt anthracite		A 1521 BF ANM


SCHUKO® socket 16 A / 250 V ~

with enhanced contact protection (shutter)




Screw terminals for wires up to 2.5 mm²

Supporting frame, claws and claw screws are integrated into the earth protection.



Duroplastic (scratch-proof) glossy

white		A 1521 KI WW
black		A 1521 KI SW

Duroplastic lacquered

aluminium	 	A 1521 KI AL
champagne		A 1521 KI CH
mocha		A 1521 KI MO

Thermoplastic (breakproof) high-gloss

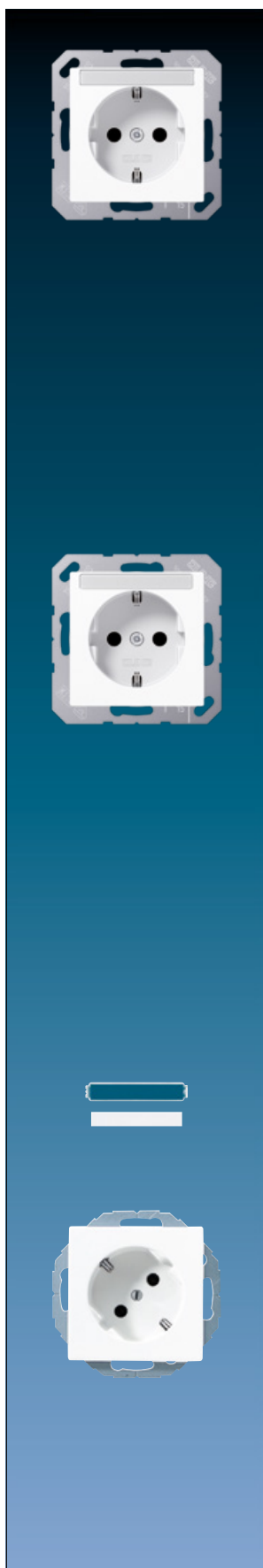
white		A 1521 BFKI WW
black		A 1521 BFKI SW
green		A 1521 BFKI GN
orange		A 1521 BFKI O

matt lacquered

matt snow white		A 1521 BFKI WWM
matt graphite black		A 1521 BFKI SWM
matt anthracite		A 1521 BFKI ANM



A range



Ref.-no.

SCHUKO® socket 16 A / 250 V ~

with inscription field 6 x 46 mm

Screwless terminals for wires up to 2.5 mm²

Without claws: ref.-no. with additional "N", e.g.: ..1520 N..

With screw terminals: ref.-no. ..1521..

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

white	L	A 1520 BFNA WW
black		A 1520 BFNA SW
green		A 1520 BFNA GN
orange		A 1520 BFNA O
red		A 1520 BFNA RT

Thermoplastic (breakproof) lacquered

aluminium		A 1520 BFNA AL
matt lacquered		
matt snow white		A 1520 BFNA WWM
matt graphite black		A 1520 BFNA SWM
matt anthracite		A 1520 BFNA ANM

SCHUKO® socket 16 A / 250 V ~

with enhanced contact protection (shutter)

with inscription field 6 x 46 mm

Screwless terminals for wires up to 2.5 mm²

Without claws: ref.-no. with additional "N", e.g.: ..1520 N..

With screw terminals: ref.-no. ..1521..

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

white	L	A 1520 BFKINA WW
black		A 1520 BFKINA SW
green		A 1520 BFKINA GN
orange		A 1520 BFKINA O
red		A 1520 BFKINA RT

Thermoplastic (breakproof) lacquered

aluminium		A 1520 BFKINA AL
matt lacquered		
matt snow white		A 1520 BFKINA WWM
matt graphite black		A 1520 BFKINA SWM
matt anthracite		A 1520 BFKINA ANM

Transparent cover with paper inlay

for inscription field 6 x 46 mm

(Spare part)

paper inlay white		A 20 NA
-------------------	--	----------------

SCHUKO® socket 45°, 16 A / 250 V ~

with enhanced contact protection (shutter)

Screwless terminals for wires up to 2.5 mm²

especially suitable for vertical combination of several outlets

Without claws: ref.-no. with additional "N", e.g.: ..520-45 N..

Duroplastic (scratch-proof) glossy

white	P	A 520-45 KI WW
black		A 520-45 KI SW

Duroplastic lacquered

aluminium	P L	A 520-45 KI AL
-----------	-------------------	-----------------------


Ref.-no.

**SCHUKO® socket 16 A / 250 V ~
with pilot light (green LED) ref.-no.: 193-LED GN
with enhanced contact protection (shutter)**

Screwless terminals for wires up to 2.5 mm²
Without claws: ref.-no. with additional "N", e.g.: ..1520 N..

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

white	 A 1520 BFKO WW
green	A 1520 BFKO GN
orange	A 1520 BFKO O
red	A 1520 BFKO RT


Spare pilot light exchangeable from the front without disconnecting the mains

**SCHUKO® socket 16 A / 250 V ~
with pilot light (green LED) ref.-no.: 193-LED GN
with enhanced contact protection (shutter)
with inscription field 6 x 46 mm**

Screwless terminals for wires up to 2.5 mm²
Without claws: ref.-no. with additional "N", e.g.: ..1520 N..

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

white	 A 1520 BFNAKO WW
green	A 1520 BFNAKO GN
orange	A 1520 BFNAKO O
red	A 1520 BFNAKO RT

Thermoplastic (breakproof) high-gloss – antibacterial

white	ABA 1520 BFNAKO WW
green	ABA 1520 BFNAKO GN
orange	ABA 1520 BFNAKO O
red	ABA 1520 BFNAKO RT

Spare pilot light exchangeable from the front without disconnecting the mains

Transparent cover with paper inlay

for inscription field 6 x 46 mm

(Spare part)

paper inlay white	A 20 NA
-------------------	---------

**SCHUKO® socket with USB charger
with enhanced contact protection (shutter)**

with 1 USB port type A

with quick charge function

Screwless terminals for wires up to 2.5 mm²

Installation in flush box according to EN 60670-1

Installation depth: 48 mm



Thermoplastic (breakproof) high-gloss

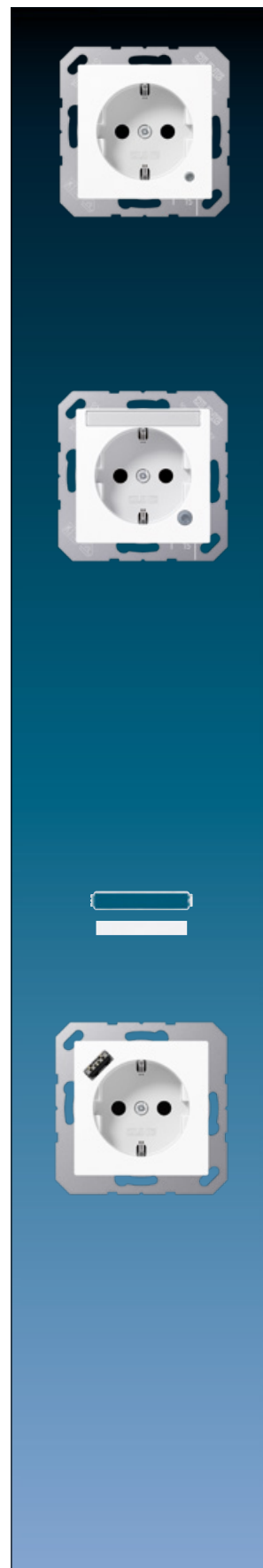
white	A 1520-18 A WW
black	A 1520-18 A SW

Thermoplastic (breakproof) lacquered

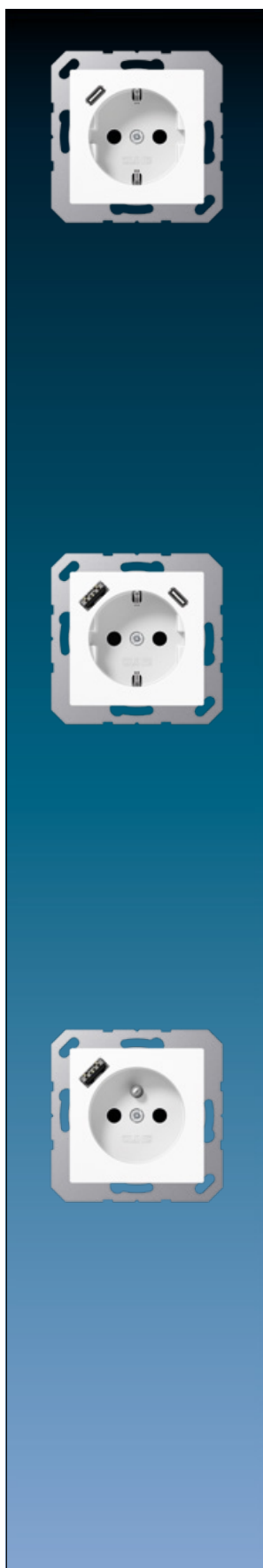
aluminium	A 1520-18 A AL
champagne	A 1520-18 A CH
mocha	A 1520-18 A MO

matt lacquered

matt snow white	A 1520-18 A WWM
matt graphite black	A 1520-18 A SWM
matt anthracite	A 1520-18 A ANM



A range



Ref.-no.

**SCHUKO® socket with USB charger
with enhanced contact protection (shutter)**

with 1 USB port type C
with quick charge function
Screwless terminals for wires up to 2.5 mm²
Installation in flush box according to EN 60670-1
Installation depth: 48 mm



Thermoplastic (breakproof) high-gloss

white **A 1520-18 C WW**

black **A 1520-18 C SW**

Thermoplastic (breakproof) lacquered

aluminium **A 1520-18 C AL**

champagne **A 1520-18 C CH**

mocha **A 1520-18 C MO**

matt lacquered

matt snow white **A 1520-18 C WWM**

matt graphite black **A 1520-18 C SWM**

matt anthracite **A 1520-18 C ANM**

**SCHUKO® socket with USB charger
with enhanced contact protection (shutter)**

with 1 USB port type A and 1 USB port type C
Screwless terminals for wires up to 2.5 mm²
Installation in flush box according to EN 60670-1
Installation depth: 48 mm

Thermoplastic (breakproof) high-gloss

white **A 1520-15 CA WW**

black **A 1520-15 CA SW**

Thermoplastic (breakproof) lacquered

aluminium **A 1520-15 CA AL**

champagne **A 1520-15 CA CH**

mocha **A 1520-15 CA MO**

matt lacquered

matt snow white **A 1520-15 CA WWM**

matt graphite black **A 1520-15 CA SWM**

matt anthracite **A 1520-15 CA ANM**

Socket, French/Belgian system with USB charger

2-pole + male earth pin, 16 A / 250 V ~
with enhanced contact protection (shutter)
with 1 USB port type A
with quick charge function
Screwless terminals for wires up to 2.5 mm²
Installation in flush box according to EN 60670-1
Installation depth: 48 mm



Thermoplastic (breakproof) high-gloss

white **A 1520 F-18 A WW**

black **A 1520 F-18 A SW**

Thermoplastic (breakproof) lacquered

aluminium **A 1520 F-18 A AL**

champagne **A 1520 F-18 A CH**

mocha **A 1520 F-18 A MO**

matt lacquered

matt snow white **A 1520F-18 A WWM**

matt graphite black **A 1520F-18 A SWM**

matt anthracite **A 1520F-18 A ANM**

Ref.-no.

Socket, French/Belgian system with USB charger

2-pole + male earth pin, 16 A / 250 V ~
with enhanced contact protection (shutter)
with 1 USB port type C
with quick charge function



Screwless terminals for wires up to 2.5 mm²
Installation in flush box according to EN 60670-1
Installation depth: 48 mm

Thermoplastic (breakproof) high-gloss

white	A 1520 F-18 C WW
black	A 1520 F-18 C SW

Duroplastic lacquered

aluminium	A 1520 F-18 C AL
champagne	A 1520 F-18 C CH
mocha	A 1520 F-18 C MO

matt lacquered

matt snow white	A 1520F-18 C WWM
matt graphite black	A 1520F-18 C SWM
matt anthracite	A 1520F-18 C ANM

Socket, French/Belgian system with USB charger

2-pole + male earth pin, 16 A / 250 V ~
with enhanced contact protection (shutter)
with 1 USB port type A and 1 USB port type C
Screwless terminals for wires up to 2.5 mm²
Installation in flush box according to EN 60670-1
Installation depth: 48 mm

Thermoplastic (breakproof) high-gloss

white	A 1520 F-15 CA WW
black	A 1520 F-15 CA SW

Thermoplastic (breakproof) lacquered

aluminium	A 1520 F-15 CA AL
champagne	A 1520 F-15 CA CH
mocha	A 1520 F-15 CA MO

matt lacquered

matt snow white	A 1520F-15 CA WWM
matt graphite black	A 1520F-15 CA SWM
matt anthracite	A 1520F-15 CA ANM

SCHUKO® socket 16 A / 250 V ~

with surge voltage protection

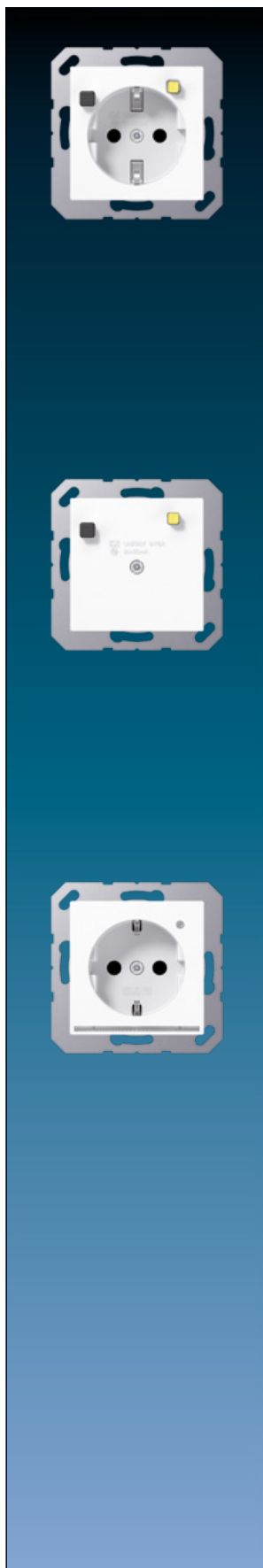
Screw terminals for wires up to 2.5 mm²
Without claws: ref.-no. with additional "N", e.g.: ..521 N..

Duroplastic (scratch-proof) glossy

white	A 521 UF WW
-------	-------------



A range



Ref.-no.

SCHUKO® socket with RCD (residual current device) 16 A / 250 V ~
according to DIN EN 61008-1 (VDE 0664-10) and DIN EN 61008-2-1 (VDE 0664-11)

Rated residual current: 30 mA
with enhanced contact protection (shutter)

Screwless terminals for wires up to 2.5 mm²
 not suitable for installation in surface caps

The SCHUKO socket with RCD is suitable to replace sockets in older installations.

Sockets that are connected to the RCD-protected output terminals (L' N') are likewise RCD-protected.

The electrical installation up to the SCHUKO® socket with RCD is not protected.

The socket can also be switched on and off manually, using the built-in switch.

Thermoplastic (breakproof) high-gloss

white	A 5520.30 WW
black	A 5520.30 SW

Thermoplastic (breakproof) lacquered

aluminium	A 5520.30 AL
-----------	---------------------

RCD (residual current device) 16 A / 250 V ~
according to DIN EN 61008-1 (VDE 0664-10) and DIN EN 61008-2-1 (VDE 0664-11)

Rated residual current: 30 mA

Screwless terminals for wires up to 2.5 mm²

not suitable for installation in surface caps

suitable for cables with 2 or 3 conductors

Installation into flush box with a depth of 60 mm is recommended. Protection device with voltage-independent function. The sockets connected to the output terminals are protected acc. to DIN VDE 0100-410.

The electrical installation up to the RCD is not protected!

Thermoplastic (breakproof) high-gloss

white	A 5530 FIB WW
black	A 5530 FIB SW

Thermoplastic (breakproof) lacquered

aluminium	A 5530 FIB AL
-----------	----------------------

SCHUKO® socket 16 A / 250 V ~
with LED floor pilot light
with integrated brightness sensor
with enhanced contact protection (shutter)

Screwless terminals for wires up to 2.5 mm²

Installation into flush box min. 63 mm (depth)

with white LEDs (colour temperature 4000 K)

Power consumption stand-by / ON: 0.3 / 0.5 W

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

white	A 1520-O WW LNW
black	A 1520-O SW LNW

Thermoplastic (breakproof) lacquered

aluminium	A 1520-O AL LNW
champagne	A 1520-O CH LNW
mocha	A 1520-O MO LNW

matt lacquered

matt snow white	A 1520-O WWM LNW
matt graphite black	A 1520-O SWM LNW
matt anthracite	A 1520-O ANM LNW

Ref.-no.

LED floor pilot light

with integrated brightness sensor

Screwless terminals for wires up to 2.5 mm²

Installation into flush box min. 63 mm (depth)

with white LEDs (colour temperature 4000 K)

Power consumption stand-by / ON: 0.3 / 0.5 W

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

white	A 1539-O WW LNW
-------	-----------------

black	A 1539-O SW LNW
-------	-----------------

Thermoplastic (breakproof) lacquered

aluminium	A 1539-O AL LNW
-----------	-----------------

champagne	A 1539-O CH LNW
-----------	-----------------

mocha	A 1539-O MO LNW
-------	-----------------

matt lacquered

matt snow white	A 1539-O WWM LNW
-----------------	------------------

matt graphite black	A 1539-O SWM LNW
---------------------	------------------

matt anthracite	A 1539-O ANM LNW
-----------------	------------------

LED floor pilot light

Screwless terminals for wires up to 2.5 mm²

Installation into flush box min. 63 mm (depth)

with white LEDs (colour temperature 4000 K)

Power consumption (ON): 0.5 W

The floor pilot light can be switched via an external switch.

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

white	A 1539-OO WW LNW
-------	------------------

black	A 1539-OO SW LNW
-------	------------------

Thermoplastic (breakproof) lacquered

aluminium	A 1539-OO AL LNW
-----------	------------------

champagne	A 1539-OO CH LNW
-----------	------------------

mocha	A 1539-OO MO LNW
-------	------------------

matt lacquered

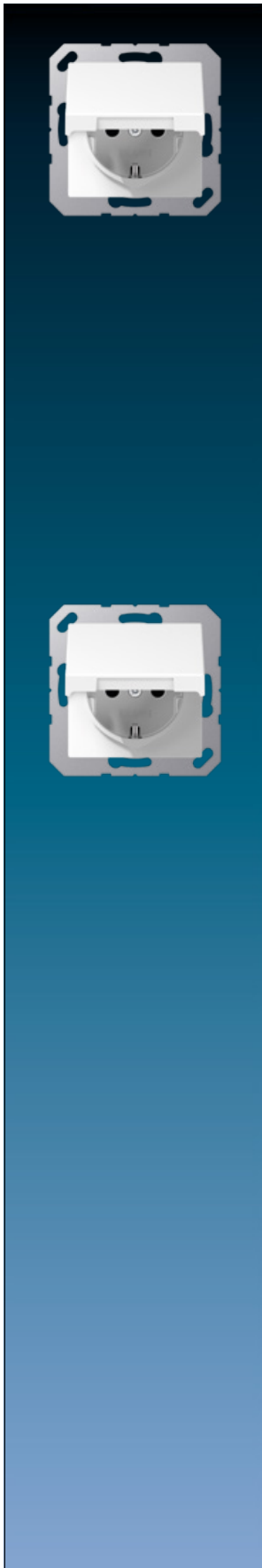
matt snow white	A 1539-OO WWM LNW
-----------------	-------------------

matt graphite black	A 1539-OO SWM LNW
---------------------	-------------------

matt anthracite	A 1539-OO ANM LNW
-----------------	-------------------



A range



Ref.-no.

SCHUKO® socket 16 A / 250 V ~ with hinged lid (with spring)

Screwless terminals for wires up to 2.5 mm²

Without claws: ref.-no. with additional "N", e.g.: ..1520 N..

With screw terminals: ref.-no. ..1521..

Supporting frame, claws and claw screws are integrated into the earth protection.

Duroplastic (scratch-proof) glossy

white	IP P	A 1520 KL WW
black	IP	A 1520 KL SW

Thermoplastic (breakproof) high-gloss

white	IP L	A 1520 BFKL WW
black	IP L	A 1520 BFKL SW

Thermoplastic (breakproof) lacquered

aluminium	IP P L	A 1520 BFKL AL
champagne	IP P	A 1520 BFKL CH
mocha	IP	A 1520 BFKL MO

matt lacquered

matt snow white	IP	A 1520 BFKL WWM
matt graphite black	IP	A 1520 BFKL SWM
matt anthracite	IP	A 1520 BFKL ANM

SCHUKO® socket 16 A / 250 V ~ with hinged lid (with spring)

with enhanced contact protection (shutter)

Screwless terminals for wires up to 2.5 mm²

Without claws: ref.-no. with additional "N", e.g.: ..1520 N..

With screw terminals: ref.-no. ..1521..

Supporting frame, claws and claw screws are integrated into the earth protection.

Duroplastic (scratch-proof) glossy

white	IP P	A 1520 KIKL WW
black	IP	A 1520 KIKL SW

Thermoplastic (breakproof) high-gloss

white	IP L	A 1520 BFKIKL WW
black	IP L	A 1520 BFKIKL SW

Thermoplastic (breakproof) lacquered

aluminium	IP P L	A 1520 BFKIKL AL
champagne	IP P	A 1520 BFKIKL CH
mocha	IP	A 1520 BFKIKL MO

matt lacquered




matt snow white	IP	A 1520 BFKIKL WWM
matt graphite black	IP	A 1520 BFKIKL SWM
matt anthracite	IP	A 1520 BFKIKL ANM

Ref.-no.




SCHUKO® socket 16 A / 250 V ~**with hinged lid (with spring)**Screw terminals for wires up to 2.5 mm²

Supporting frame, claws and claw screws are integrated into the earth protection.




Duroplastic (scratch-proof) glossy

white	 	A 1521 KL WW
black		A 1521 KL SW

Thermoplastic (breakproof) high-gloss

white	 	A 1521 BFKL WW
black	 	A 1521 BFKL SW

Thermoplastic (breakproof) lacquered

aluminium	  	A 1521 BFKL AL
champagne	 	A 1521 BFKL CH
mocha		A 1521 BFKL MO




matt lacquered

matt anthracite		A 1521 BFKL ANM
-----------------	---	-----------------







SCHUKO® socket 16 A / 250 V ~**with hinged lid (with spring)****with enhanced contact protection (shutter)**Screw terminals for wires up to 2.5 mm²

Supporting frame, claws and claw screws are integrated into the earth protection.





Duroplastic (scratch-proof) glossy

white	 	A 1521 KIKL WW
black		A 1521 KIKL SW




Duroplastic lacquered

aluminium	  	A 1521 KIKL AL
champagne	 	A 1521 KIKL CH
mocha		A 1521 KIKL MO

Thermoplastic (breakproof) high-gloss

white	 	A 1521 BFKIKL WW
black	 	A 1521 BFKIKL SW

matt lacquered






matt snow white		A 1521 BFKIKL WWM
matt graphite black		A 1521 BFKIKL SWM
matt anthracite		A 1521 BFKIKL ANM

SCHUKO® socket 16 A / 250 V ~**with hinged lid (with spring)****with pilot light (green LED) ref.-no.: 193-LED GN****with enhanced contact protection (shutter)**Screwless terminals for wires up to 2.5 mm²

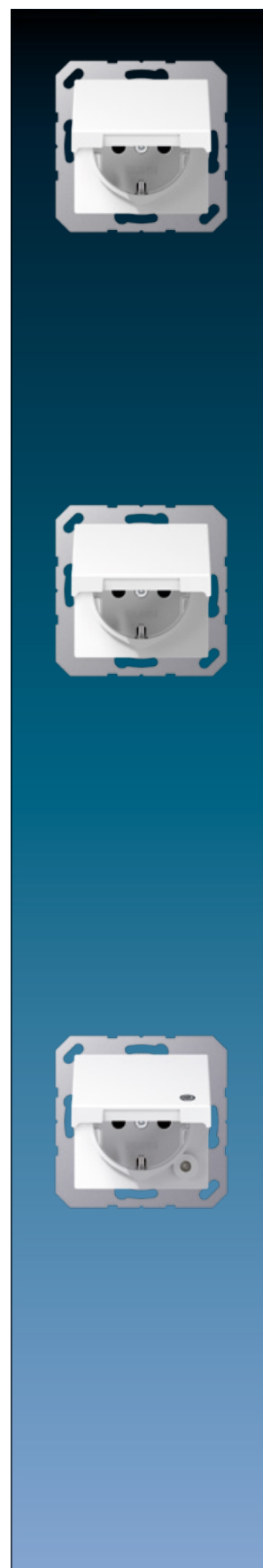
Without claws: ref.-no. with additional "N", e.g.: ..1520 N..

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

white	 	A 1520 BFKLKO WW
green		A 1520 BFKLKO GN
orange		A 1520 BFKLKO O
red		A 1520 BFKLKO RT

Spare pilot light exchangeable from the front without disconnecting the mains



A range



Ref.-no.

SCHUKO® socket 16 A / 250 V ~
with hinged lid (with spring)
with safety lock (24 different locks)
with enhanced contact protection (shutter)

Screwless terminals for wires up to 2.5 mm²

Without claws: ref.-no. with additional "N", e.g.: ..1520 N..

With screw terminals: ref.-no. ..1521..

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

white	IP	L	A 1520 BFKLSL WW
black	IP	L	A 1520 BFKLSL SW
green	IP		A 1520 BFKLSL GN
orange	IP		A 1520 BFKLSL O

Thermoplastic (breakproof) lacquered

aluminium	IP	P	L	A 1520 BFKLSL AL
champagne	IP	P		A 1520 BFKLSL CH
mocha	IP			A 1520 BFKLSL MO

matt lacquered

matt anthracite	IP			A 1520 BFKLSL ANM
-----------------	----	--	--	-------------------

Key

(Spare part)

for all hinged lids with safety lock

1 piece

802 SL – 825 SL

When ordering, please indicate lock number!

Socket, 2-pole without earth 16 A / 250 V ~

Screw terminals for wires up to 2.5 mm²

Duroplastic (scratch-proof) glossy

white	P		A 511 N WW
black			A 511 N SW

Duroplastic lacquered

aluminium	P	L	A 511 N AL
champagne	P		A 511 N CH
mocha			A 511 N MO

matt lacquered

matt snow white			A 511 N WWM
matt graphite black			A 511 N SWM

Socket for Switzerland

1-gang socket type 13

10 A 250 V ~, L + N + PE

Screwless terminals for wires up to 2.5 mm² acc. to SEV 1011-1998/IEC 884-1

Installation in flush box according to EN 60670-1

not suitable for installation in surface caps

with supporting frame, screw fixing only

Thermoplastic (breakproof) high-gloss

white		L	A 1520-13 BF SEV WW
black		L	A 1520-13 BF SEV SW

Thermoplastic (breakproof) lacquered

aluminium	P	L	A 1520-13 BF SEV AL
champagne	P		A 1520-13 BF SEV CH
mocha			A 1520-13 BF SEV MO

matt lacquered

matt graphite black			A 1520-13 SEV SWM
matt snow white			A 1520-13 SEV WWM

Ref.-no.

Socket insert, French/Belgian system

2-pole + male earth pin, 16 A / 250 V ~

Supporting frame, claws and claw screws are integrated into the earth protection.

with claws

with screwless terminals

1520 F EINS

with screw terminals

1521 F EINS

Socket insert, French/Belgian system

2-pole + male earth pin, 16 A / 250 V ~

Supporting frame is integrated into the earth protection.

without claws

with screwless terminals

1520 NF EINS

with screw terminals

1521 NF EINS

Centre plate

for socket insert French/Belgian system, ref.-no.: 1520 ..F EINS, 1521 ..F EINS

Duroplastic (scratch-proof) glossy

white



A 1521 F WW PL-1

black

A 1521 F SW PL-1

Duroplastic lacquered

aluminium



A 1521 F AL PL-1

champagne



A 1521 F CH PL-1

mocha

A 1521 F MO PL-1

matt lacquered

matt anthracite

A 1521 FBF ANM P1

Centre plate

for socket insert French/Belgian system, ref.-no.: 1520 ..F EINS, 1521 ..F EINS

with enhanced contact protection (shutter)

Duroplastic (scratch-proof) glossy

white



A 1521 FKI WW PL-1

black

A 1521 FKI SW PL-1

Duroplastic lacquered

aluminium



A 1521 FKI AL PL-1

champagne



A 1521 FKI CH PL-1

mocha

A 1521 FKI MO PL-1

matt lacquered

matt snow white

A 1521 FKI WWM PL-1

matt graphite black

A 1521 FKI SWM PL-1

Centre plate

with hinged lid (with spring)

for socket insert French/Belgian system, ref.-no.: 1520 ..F EINS, 1521 ..F EINS

with enhanced contact protection (shutter)

Duroplastic (scratch-proof) glossy

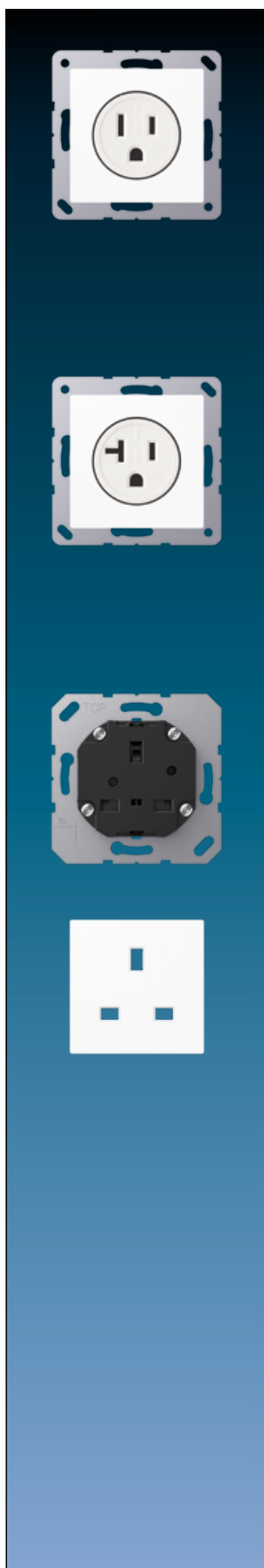
white



A 1521 FKIKL WW PL1



A range



	Ref.-no.
Socket US NEMA system	
15 A, 125 V ~, 5-15R, 2-pole + earth	
Screw terminals for wires up to 4 mm ² acc. to US-NEMA	
Thermoplastic (breakproof) high-gloss	
white	A 521-15 WW
black	A 521-15 SW
Thermoplastic (breakproof) lacquered	
aluminium	plug socket black A 521-15 AL
matt lacquered	
matt snow white	A 521-15 WWM
matt graphite black	plug socket black A 521-15 SWM
Socket US NEMA system	
20 A, 125 V ~, 5-20R, 2-pole + earth	
Screw terminals for wires up to 4 mm ² acc. to US-NEMA	
Thermoplastic (breakproof) high-gloss	
white	A 521-20 WW
black	plug socket black A 521-20 SW
Thermoplastic (breakproof) lacquered	
aluminium	plug socket black A 521-20 AL
matt lacquered	
matt snow white	A 521-20 WWM
matt graphite black	plug socket black A 521-20 SWM
Socket insert British Standard 1363	
13 A 250 V ~	
2-pole + earth, with enhanced contact protection (shutter)	
Screw terminals for wires up to 4 mm ²	
without switch	3521 EINS
Centre plate	
for socket insert ref.-no. 3521 EINS	
Duroplastic (scratch-proof) glossy	
white	A 3521 WW PL
black	A 3521 SW PL
Duroplastic lacquered	
aluminium	A 3521 AL PL
champagne	A 3521 CH PL
mocha	A 3521 MO PL
matt lacquered	
matt snow white	A 3521 WWM
matt graphite black	A 3521 SWM

Ref.-no.

Switched socket insert British Standard 1363

13 A 250 V ~

2-pole + earth, with enhanced contact protection (shutter)

Screw terminals for wires up to 4 mm²

without indicator light

3171 EINS

with indicator light

3171 KO EINS

Centre plate

for socket insert ref.-no. 3171 EINS

Duroplastic (scratch-proof) glossy

white

A 3171 WW PL

black

A 3171 SW PL

Duroplastic lacquered

aluminium

A 3171 AL PL

champagne

A 3171 CH PL

mocha

A 3171 MO PL

Thermoplastic (breakproof) high-gloss

white

A 3171 BF WW PL

black

A 3171 BF SW PL

matt lacquered

matt snow white

A 3171 BF WWM PL

matt graphite black

A 3171 BF SWM PL

matt anthracite

A 3171 BF ANM PL

Centre plate

for socket insert ref.-no. 3171 KO EINS

Duroplastic (scratch-proof) glossy

white

A 3171 KO WW PL

black

A 3171 KO SW PL

Duroplastic lacquered

aluminium

A 3171 KO AL PL

champagne

A 3171 KO CH PL

mocha

A 3171 KO MO PL

Thermoplastic (breakproof) high-gloss

white

A 3171 BFKO WW PL

black

A 3171 BFKO SW PL

matt lacquered

matt snow white

A 3171 BFKO WWM PL

matt graphite black

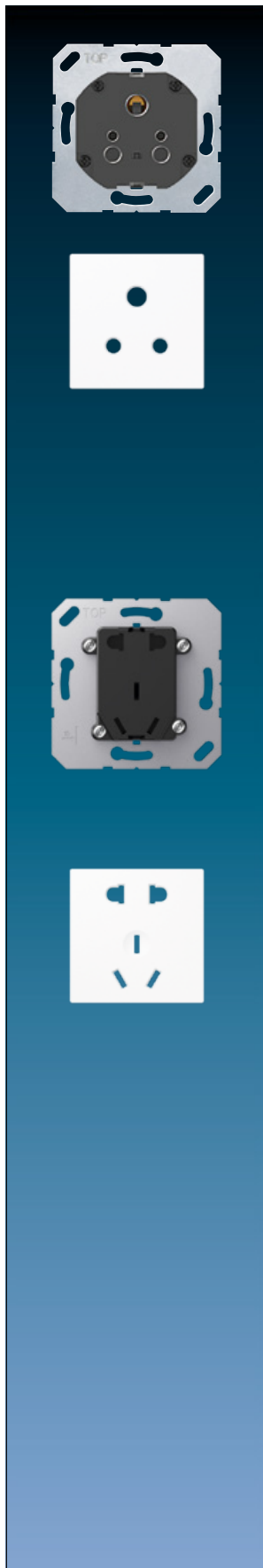
A 3171 BFKO SWM PL

matt anthracite

A 3171 BFKO ANM PL



A range



Ref.-no.

Socket insert British Standard 546

5 A 250 V ~

2-pole + earth, with enhanced contact protection (shutter)

Screw terminals for wires up to 4 mm²

without switch

3171-5 EINS

Centre plate

for socket insert ref.-no. 3171-5 EINS

Duroplastic (scratch-proof) glossy

white

A 3171-5 WW PL

black

A 3171-5 SW PL

Duroplastic lacquered

aluminium

A 3171-5 AL PL

champagne

A 3171-5 CH PL

mocha

A 3171-5 MO PL

matt lacquered

matt snow white

A 3171-5 WWM PL

matt graphite black

A 3171-5 SWM PL

Socket insert for China

consisting of:

2-pole without earth for flat and rounded pins and

2-pole with earth only for flat pins

with enhanced contact protection (shutter)

Screw terminals for wires up to 4 mm²

screw fixing only, without claws

Supporting frame is integrated into the earth protection.

without switch

3521-5 CN EINS

Centre plate

for Chinese socket combination, ref.-no. 3521-5 CN EINS

Duroplastic (scratch-proof) glossy

white



A 3521-5 CN WW PL

Duroplastic lacquered

aluminium



A 3521-5 CN AL PL

champagne



A 3521-5 CN CH PL

mocha

A 3521-5 CN MO PL

Thermoplastic (breakproof) high-gloss

white



A 3521-5 CNBF WW PL

matt lacquered

matt anthracite

A 3521-5 CNBF ANM PL

Ref.-no.

Socket insert for India

16 A 250 V ~

2-pole + earth, with enhanced contact protection (shutter)

Screw terminals for wires up to 4 mm²

without switch

521 IN-EINS

Centre plate

for socket insert for India, ref.-no. 521 IN-EINS

Duroplastic (scratch-proof) glossy

white

A 521 IN WW PL

black

A 521 IN SW PL

Duroplastic lacquered

aluminium

A 521 IN AL PL

champagne

A 521 IN CH PL

mocha

A 521 IN MO PL

Thermoplastic (breakproof) high-gloss

white

A 521 IN BF WW PL

matt lacquered

matt anthracite

A 521 IN BF ANM PL

Switched cable unit with fuse

2-pole, 13 A 250 V ~

with indicator light

Screw terminals for wires up to 4 mm²

3190 CU KO EINS

Centre plate

for switched cable unit ref.-no. 3190 CU KO EINS

white

A 3190 CU KO WW PL

black

A 3190 CU KO SW PL

aluminium

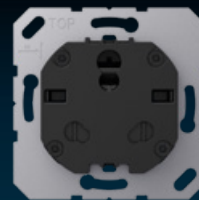
A 3190 CU KO AL PL

champagne

A 3190 CU KO CH PL

mocha

A 3190 CU KO MO PL



A range



Ref.-no.

Centre plate with knob

for rotary dimmer inserts ref.-no.: 1730 DD, 1731 DD, 211 GDE
for satellite dimmer insert ref.-no.: 1733 DNE
for electronic potentiometer 1 – 10 V ref.-no.: 240-10
for DALI rotary controllers ref.-no.: 1740 DSTE, 1741 DSTE

Duroplastic (scratch-proof) glossy

white	IP P	A 1540 WW
black	IP	A 1540 SW

Duroplastic lacquered

aluminium	IP P L	A 1540 AL
champagne	IP P	A 1540 CH
mocha	IP	A 1540 MO

Thermoplastic (breakproof) high-gloss

white	IP L	A 1540 BF WW
black	IP L	A 1540 BF SW

matt lacquered

matt snow white	IP	A 1540 BF WWM
matt graphite black	IP	A 1540 BF SWM
matt anthracite	IP	A 1540 BF ANM

Sealing gasket

for covers for rotary dimmer inserts

	IP	140 D
--	----	-------

To obtain protection level IP 44 the sealing gasket ref.-no.: 140 D has to be placed into the centre plate for rotary dimmer and IP 44 frame has to be used.

Standard centre plate

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE
for LB Management inserts "light"
ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1720 NE, 1723 NE, 1708 IE

Duroplastic (scratch-proof) glossy

white	A 1700 WW
black	A 1700 SW

Duroplastic lacquered

aluminium	A 1700 AL
champagne	A 1700 CH
mocha	A 1700 MO

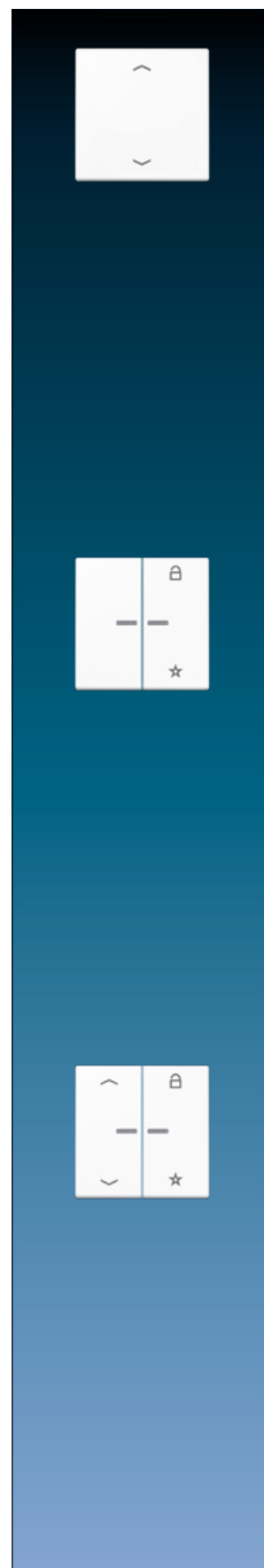
Thermoplastic (breakproof) high-gloss

white	L A 1700 BF WW
black	L A 1700 BF SW

matt lacquered

matt snow white	A 1700 BF WWM
matt graphite black	A 1700 BF SWM
matt anthracite	A 1700 BF ANM

	Ref.-no.
Standard centre plate "arrows"	
for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE	
for LB Management inserts "light"	
ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1720 NE, 1723 NE, 1708 IE	
Duroplastic (scratch-proof) glossy	
white	A 1700 P WW
black	A 1700 P SW
Duroplastic lacquered	
aluminium	A 1700 P AL
champagne	A 1700 P CH
mocha	A 1700 P MO
Thermoplastic (breakproof) high-gloss	
white	A 1700 BFP WW
black	A 1700 BFP SW
matt lacquered	
matt snow white	A 1700 BFP WWM
matt graphite black	A 1700 BFP SWM
matt anthracite	A 1700 BFP ANM
Universal centre plate	
for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE	
for LB Management inserts "light"	
ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE	
Duroplastic (scratch-proof) glossy	
white	A 1701 WW
black	A 1701 SW
Duroplastic lacquered	
aluminium	A 1701 AL
champagne	A 1701 CH
mocha	A 1701 MO
Thermoplastic (breakproof) high-gloss	
white	■ A 1701 BF WW
black	■ A 1701 BF SW
matt lacquered	
matt snow white	A 1701 BF WWM
matt graphite black	A 1701 BF SWM
matt anthracite	A 1701 BF ANM
Universal centre plate "arrows"	
for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE	
for LB Management inserts "light"	
ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE	
Duroplastic (scratch-proof) glossy	
white	A 1701 P WW
black	A 1701 P SW
Duroplastic lacquered	
aluminium	A 1701 P AL
champagne	A 1701 P CH
mocha	A 1701 P MO
Thermoplastic (breakproof) high-gloss	
white	A 1701 BFP WW
black	A 1701 BFP SW
matt lacquered	
matt snow white	A 1701 BFP WWM
matt graphite black	A 1701 BFP SWM
matt anthracite	A 1701 BFP ANM



A range



Ref.-no.

Standard centre plate 2-gang

for LB Management inserts "light" ref.-no.: 1702 SE, 1712 DE, 1713 DSTE, 1723 NE

Duroplastic (scratch-proof) glossy

white	A 1702 WW
black	A 1702 SW

Duroplastic lacquered

aluminium	A 1702 AL
champagne	A 1702 CH
mocha	A 1702 MO

Thermoplastic (breakproof) high-gloss

white	A 1702 BF WW
black	A 1702 BF SW

matt lacquered

matt snow white	A 1702 BF WWM
matt graphite black	A 1702 BF SWM
matt anthracite	A 1702 BF ANM

Standard timer with display

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE

white	A 1750 D WW
black	A 1750 D SW

Universal timer Bluetooth

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE

Duroplastic (scratch-proof) glossy

white	A 1751 BT WW
black	A 1751 BT SW

Duroplastic lacquered

aluminium	A 1751 BT AL
champagne	A 1751 BT CH
mocha	A 1751 BT MO

Thermoplastic (breakproof) high-gloss

white	A 1751 BFBT WW
black	A 1751 BFBT SW

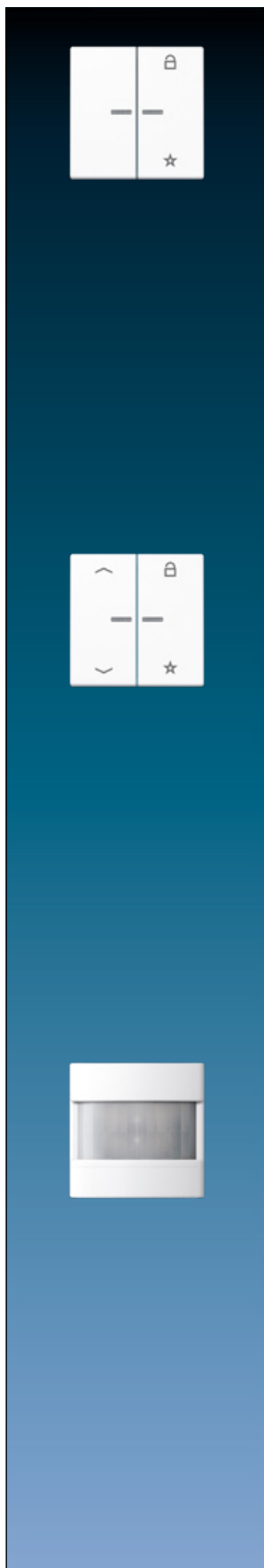
matt lacquered

matt snow white	A 1751 BFBT WWM
matt graphite black	A 1751 BFBT SWM
matt anthracite	A 1751 BFBT ANM

	Ref.-no.
Universal timer Bluetooth "arrows"	
for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE	
for LB Management inserts "light"	
ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE	
Duroplastic (scratch-proof) glossy	
white	A 1751 PBT WW
black	A 1751 PBT SW
Duroplastic lacquered	
aluminium	A 1751 PBT AL
champagne	A 1751 PBT CH
mocha	A 1751 PBT MO
Thermoplastic (breakproof) high-gloss	
white	A 1751 BFPBT WW
black	A 1751 BFPBT SW
matt lacquered	
matt snow white	A 1751 BFPBT WWM
matt graphite black	A 1751 BFPBT SWM
matt anthracite	A 1751 BFPBT ANM
eNet Standard radio centre plate	
for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE	
for LB Management inserts "light"	
ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE	
Duroplastic (scratch-proof) glossy	
white	FM A 1700 WW
black	FM A 1700 SW
Duroplastic lacquered	
aluminium	FM A 1700 AL
champagne	FM A 1700 CH
mocha	FM A 1700 MO
matt lacquered	
matt snow white	FM A 1700 BF WWM
matt graphite black	FM A 1700 BF SWM
matt anthracite	FM A 1700 BF ANM
eNet Standard radio centre plate "arrows"	
for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE	
for LB Management inserts "light"	
ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE	
Duroplastic (scratch-proof) glossy	
white	FM A 1700 P WW
black	FM A 1700 P SW
Duroplastic lacquered	
aluminium	FM A 1700 P AL
champagne	FM A 1700 P CH
mocha	FM A 1700 P MO
matt lacquered	
matt snow white	FM A 1700 BFP WWM
matt graphite black	FM A 1700 BFP SWM
matt anthracite	FM A 1700 BFP ANM



A range



Ref.-no.

eNet radio centre plate

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE

Duroplastic (scratch-proof) glossy

white **FM A 1701 WW**

black **FM A 1701 SW**

Duroplastic lacquered

aluminium **FM A 1701 AL**

champagne **FM A 1701 CH**

mocha **FM A 1701 MO**

Thermoplastic (breakproof) high-gloss

white **FM A 1701 BF WW**

black **FM A 1701 BF SW**

matt lacquered

matt snow white **FM A 1701 BF WWM**

matt graphite black **FM A 1701 BF SWM**

matt anthracite **FM A 1701 BF ANM**

eNet radio centre plate "arrows"

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE

Duroplastic (scratch-proof) glossy

white **FM A 1701 P WW**

black **FM A 1701 P SW**

Duroplastic lacquered

aluminium **FM A 1701 P AL**

champagne **FM A 1701 P CH**

mocha **FM A 1701 P MO**

Thermoplastic (breakproof) high-gloss

white **FM A 1701 BFP WW**

black **FM A 1701 BFP SW**

matt lacquered

matt snow white **FM A 1701 BFP WWM**

matt graphite black **FM A 1701 BFP SWM**

matt anthracite **FM A 1701 BFP ANM**

Standard automatic switch 1.1 m

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

Thermoplastic (breakproof) high-gloss

white **A 17180 WW**

black **A 17180 SW**

Thermoplastic (breakproof) lacquered

aluminium **A 17180 AL**

champagne **A 17180 CH**

mocha **A 17180 MO**

matt lacquered

matt snow white **A 17180 WWM**

matt graphite black **A 17180 SWM**

matt anthracite **A 17180 ANM**

Ref.-no.

Standard automatic switch 1.1 m

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

IP 44 suitable only for indoor installation

Thermoplastic (breakproof) high-gloss

white	IP	A 17180 WU WW
-------	----	---------------

black	IP	A 17180 WU SW
-------	----	---------------

Thermoplastic (breakproof) lacquered

aluminium	IP	A 17180 WU AL
-----------	----	---------------

champagne	IP	A 17180 WU CH
-----------	----	---------------

mocha	IP	A 17180 WU MO
-------	----	---------------

matt lacquered

matt snow white	IP	A 17180 WU WWM
-----------------	----	----------------

matt graphite black	IP	A 17180 WU SWM
---------------------	----	----------------

matt anthracite	IP	A 17180 WU ANM
-----------------	----	----------------

Standard automatic switch 2.2 m

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

IP 44 suitable only for indoor installation

Thermoplastic (breakproof) high-gloss

white	IP	A 17280 WW
-------	----	------------

black	IP	A 17280 SW
-------	----	------------

Thermoplastic (breakproof) lacquered

aluminium	IP	A 17280 AL
-----------	----	------------

champagne	IP	A 17280 CH
-----------	----	------------

mocha	IP	A 17280 MO
-------	----	------------

matt lacquered

matt snow white	IP	A 17280 WWM
-----------------	----	-------------

matt graphite black	IP	A 17280 SWM
---------------------	----	-------------

matt anthracite	IP	A 17280 ANM
-----------------	----	-------------

Sealing kit

for automatic switches 2.2 m of the AS / A ranges

IP	AS A 50 DS
----	------------

To obtain protection level IP 44

Universal automatic switch 1.1 m

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

Thermoplastic (breakproof) high-gloss

white	A 17181 WW
-------	------------

black	A 17181 SW
-------	------------

Thermoplastic (breakproof) lacquered

aluminium	A 17181 AL
-----------	------------

champagne	A 17181 CH
-----------	------------

mocha	A 17181 MO
-------	------------

matt lacquered

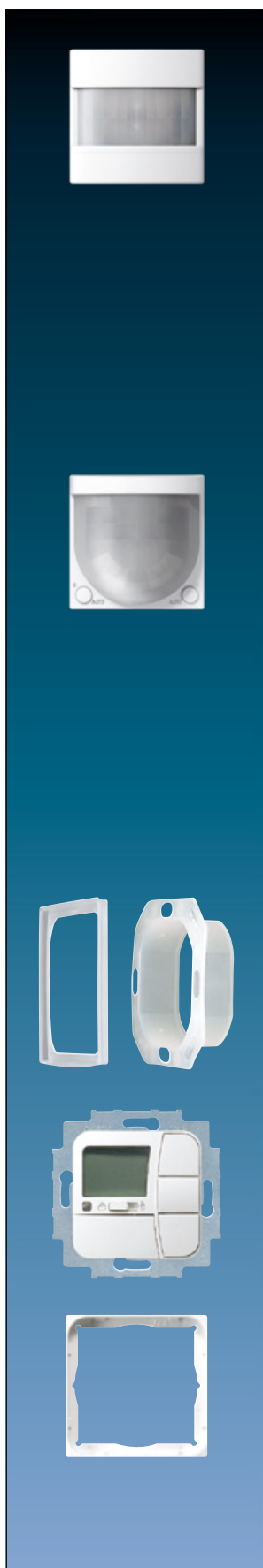
matt snow white	A 17181 WWM
-----------------	-------------

matt graphite black	A 17181 SWM
---------------------	-------------

matt anthracite	A 17181 ANM
-----------------	-------------



A range



Ref.-no.

Universal automatic switch 1.1 m

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

IP 44 suitable only for indoor installation

Thermoplastic (breakproof) high-gloss

white	IP	A 17181 WU WW
black	IP	A 17181 WU SW

Thermoplastic (breakproof) lacquered

aluminium	IP	A 17181 WU AL
champagne	IP	A 17181 WU CH
mocha	IP	A 17181 WU MO

matt lacquered

matt snow white	IP	A 17181 WU WWM
matt graphite black	IP	A 17181 WU SWM
matt anthracite	IP	A 17181 WU ANM

Universal automatic switch 2.2 m

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

IP 44 suitable for indoor and outdoor installation

Thermoplastic (breakproof) high-gloss

white	IP	A 17281 WW
black	IP	A 17281 SW

Thermoplastic (breakproof) lacquered

aluminium	IP	A 17281 AL
champagne	IP	A 17281 CH
mocha	IP	A 17281 MO

matt lacquered

matt snow white	IP	A 17281 WWM
matt graphite black	IP	A 17281 SWM
matt anthracite	IP	A 17281 ANM

Sealing kit

for automatic switches 2.2 m of the AS / A ranges

IP AS A 50 DS

To obtain protection level IP 44

Awning control, AeroTec 04

Thermoplastic (breakproof) high-gloss

white AT 04 WW

The AeroTec timer may be used to operate sun protection systems **only**.

Intermediate frame to install "AeroTec 04" in AS and A ranges

white A AT 581 Z WW

Ref.-no.

Room thermostat (1-way contact)Screwless terminals for wires up to 2.5 mm²

screw fixing only, without claws

1-pole NC contact 10 (4) A, AC 230 V ~, 50/60 Hz

Thermoplastic (breakproof) high-glosswhite **TR A 231 WW**black **TR A 231 SW****Thermoplastic (breakproof) lacquered**aluminium **TR A 231 AL**champagne **TR A 231 CH**mocha **TR A 231 MO****matt lacquered**matt snow white **TR A 231 WWM**matt graphite black **TR A 231 SWM**matt anthracite **TR A 231 ANM****Room thermostat (1-way contact)**Screwless terminals for wires up to 2.5 mm²

screw fixing only, without claws

1-pole NC contact 10 (4) A, AC 24 V ~

Thermoplastic (breakproof) high-glosswhite **TR A 241 WW**black **TR A 241 SW****Thermoplastic (breakproof) lacquered**aluminium **TR A 241 AL**champagne **TR A 241 CH**mocha **TR A 241 MO****matt lacquered**matt anthracite **TR A 241 ANM****Room thermostat (2-way contact)**Screwless terminals for wires up to 2.5 mm²

screw fixing only, without claws

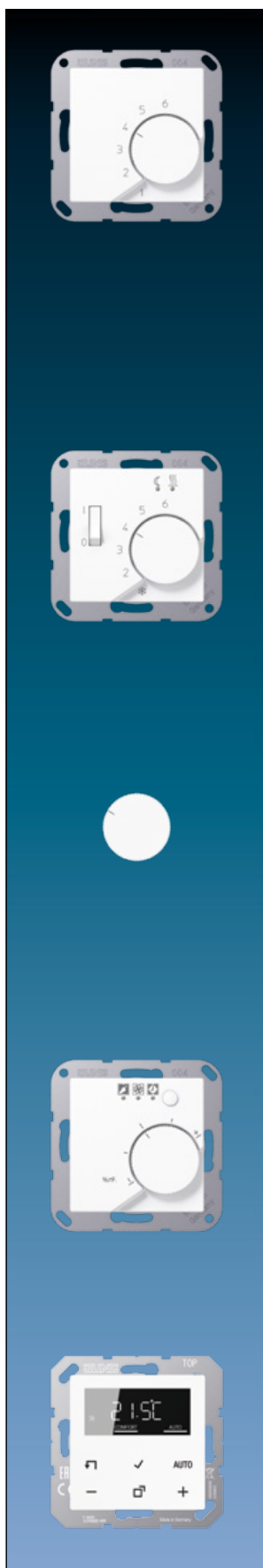
1-pole, 2-way, heating 10 (4) A, AC 230 V ~, 50/60 Hz

1-pole, 2-way, cooling 5 (2) A, AC 230 V ~, 50/60 Hz

For switching between heating/cooling the EBERLE terminal strip EV..H/K is necessary.

Thermoplastic (breakproof) high-glosswhite **TR A 236 WW**black **TR A 236 SW****Thermoplastic (breakproof) lacquered**aluminium **TR A 236 AL**champagne **TR A 236 CH**mocha **TR A 236 MO****matt lacquered**matt snow white **TR A 236 WWM**matt graphite black **TR A 236 SWM**matt anthracite **TR A 236 ANM**

A range



	Ref.-no.
Room thermostat (2-way contact)	
Screwless terminals for wires up to 2.5 mm ² screw fixing only, without claws 1-pole, 2-way, heating 10 (4) A, AC 24 V ~ 1-pole, 2-way, cooling 5 (2) A, AC 24 V ~	
Thermoplastic (breakproof) high-gloss	
white	TR A 246 WW
black	TR A 246 SW
Thermoplastic (breakproof) lacquered	
aluminium	TR A 246 AL
champagne	TR A 246 CH
mocha	TR A 246 MO
matt lacquered	
matt anthracite	TR A 246 ANM
Floor thermostat	
Screwless terminals for wires up to 2.5 mm ² screw fixing only, without claws	
Thermoplastic (breakproof) high-gloss	
white	FTR A 231 WW
black	FTR A 231 SW
Thermoplastic (breakproof) lacquered	
aluminium	FTR A 231 AL
champagne	FTR A 231 CH
mocha	FTR A 231 MO
matt lacquered	
matt anthracite	FTR A 231 ANM
Special knob, manipulation-proof	
white	MS TR 231 WW
black	MS TR 231 SW
for metal versions	
aluminium (lacquered)	MS TR 231 AL
champagne	MS TR 231 CH
mocha	MS TR 231 MO
The set temperature can no longer be changed after the knob has been "locked". Dismounting only possible with tool.	
Humidistat	
Thermoplastic (breakproof) high-gloss	
white	A 5201 HYG WW
black	A 5201 HYG SW
Thermoplastic (breakproof) lacquered	
aluminium	A 5201 HYG AL
champagne	A 5201 HYG CH
mocha	A 5201 HYG MO
matt lacquered	
matt anthracite	A 5201 HYG ANM
Room thermostat with display standard	
consists of room thermostat insert (ref.-no.: 1790 RTR) and display (ref.-no.: .. 1790 D ..)	
white	TR D A 1790 WW
black	TR D A 1790 SW

Ref.-no.

External temperature sensor

for room thermostat ref.-no. 1790 RTR, TR D .. 1790 ..

spare part for floor thermostat ref.-no. FTR .. 231 ..

The sensor cable can be connected using a bifilar cable of 1.5 mm² in diameter that is suitable for mains voltage. When installed in a cable duct or near high voltage current cables, a shielded cable must be used.

FF 7.8

Also suitable as external temperature sensor for the following KNX devices, ref.-no.:

.. 2178 TS .., .. 2178 ORTS .., .. 5192 KRM TS D, .. 5194 KRM TS D, 2177 SV R, 23066 REGHE

Technical data

NTC sensor in plastic cap 7.8 mm Ø

Cable length: 4 m

Ambient temperature: -25 ... +70 °C

Temperature controller fan coil, 2-pipe

white	TRD A 523028 WW
black	TRD A 523028 SW

Temperature controller fan coil, 4-pipe

white	TRD A 523048 WW
black	TRD A 523048 SW

Friends of Hue switch set

4-channel

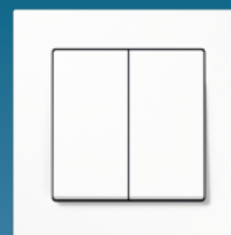
max. 4 light scenes

including mounting plate, adhesive film and fastening screw

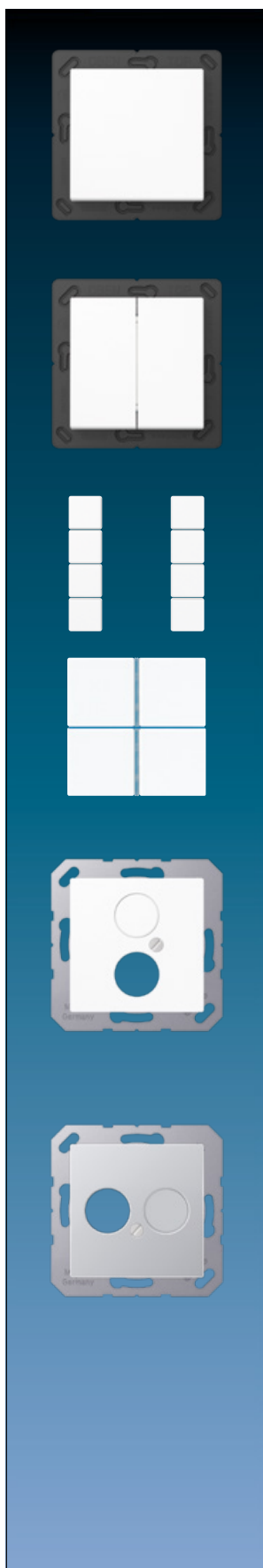
including A 550 frame ref.: A 5581 BF WW

Thermoplastic (breakproof) high-gloss

white	FOHS A 550 595 WW
-------	--------------------------



A range



Ref.-no.

Bluetooth Low Energy radio transmitter

2-channel

including mounting plate, adhesive film and fastening screw

Thermoplastic (breakproof) high-gloss

white

BLE A 590 WW

matt lacquered

matt anthracite

BLE A 590 ANM

Bluetooth Low Energy radio transmitter

4-channel

including mounting plate, adhesive film and fastening screw

Thermoplastic (breakproof) high-gloss

white

BLE A 595 WW

matt lacquered

matt anthracite

BLE A 595 ANM

Cover kits F50 see as of page 662

Cover kits F40 see as of page 671

Centre plate

with supporting frame, screw fixing only

for 2 loudspeaker sockets up to 18.5 mm Ø or with flange mounting 22.5 mm hole spacing.

In connection with mounting plate ref.-no. 63 WBT (not included) for loudspeaker terminal

ref.-no. LPK 63 RT/SW and RCA socket ref.-no. CIB 63.

Second hole can be broken out.

Duroplastic (scratch-proof) glossy

white

A 562 WW

black

A 562 SW

Centre plate

with supporting frame, screw fixing only

for 1 loudspeaker socket up to 18.5 mm Ø or with flange mounting 22.5 mm hole spacing.

In connection with mounting plate ref.-no. 63 WBT (not included) for loudspeaker terminal

ref.-no. LPK 63 RT/SW and RCA socket ref.-no. CIB 63.

Duroplastic lacquered

aluminium

A 562 AL

champagne

A 562 CH

mocha

A 562 MO

Thermoplastic (breakproof) high-gloss

white

A 562-1 BF WW

black

A 562-1 BF SW

matt lacquered

matt anthracite

A 562-1 BF ANM

Ref.-no.

Centre plate

with supporting frame, screw fixing only

for 2 loudspeaker sockets

up to 18.5 mm Ø or with flange mounting 22.5 mm hole spacing.

In connection with mounting plate ref.-no. 63 WBT (not included) for loudspeaker terminal ref.-no. LPK 63 RT/SW and RCA socket ref.-no. CIB 63.

Duroplastic lacquered

aluminium	P L	A 562-2 AL
-----------	-----	------------

champagne	P	A 562-2 CH
-----------	---	------------

mocha		A 562-2 MO
-------	--	------------

Thermoplastic (breakproof) high-gloss

white	L	A 562-2 BF WW
-------	---	---------------

black	L	A 562-2 BF SW
-------	---	---------------

matt lacquered

matt anthracite		A 562-2 BF ANM
-----------------	--	----------------

Centre plate

with supporting frame, screw fixing only

for loudspeaker socket ref.-no.: PB 4

for chassis connector ref.-no.: CXLR-S, CXLR-D

for XLR chassis Neutrik D / DL / DLX Series

internal dimensions (W x H): 27.5 x 32.5 mm

Thermoplastic (breakproof) high-gloss

white	L	A 568-1 BF WW
-------	---	---------------

black	L	A 568-1 BF SW
-------	---	---------------

matt lacquered

matt anthracite		A 568-1 BF ANM
-----------------	--	----------------

Centre plate for XLR socket

with supporting frame, screw fixing only

e.g. Binder, Cannon, Neutrik (P Series)

internal dimensions (W x H): 27.5 x 37 mm

Thermoplastic (breakproof) high-gloss

white	L	A 568 BF WW
-------	---	-------------

black	L	A 568 BF SW
-------	---	-------------

matt lacquered

matt anthracite		A 568 BF ANM
-----------------	--	--------------

Centre plate

for TV-FM sockets ref.-no.: EDU 04 F, GEDU 10, GEDU 15

Duroplastic (scratch-proof) glossy

white	P	A 561 PLTV WW
-------	---	---------------

black		A 561 PLTV SW
-------	--	---------------

Duroplastic lacquered

aluminium	P L	A 561 PLTV AL
-----------	-----	---------------

champagne	P	A 561 PLTV CH
-----------	---	---------------

mocha		A 561 PLTV MO
-------	--	---------------

Thermoplastic (breakproof) high-gloss

white	L	A 561 BFPLTV WW
-------	---	-----------------

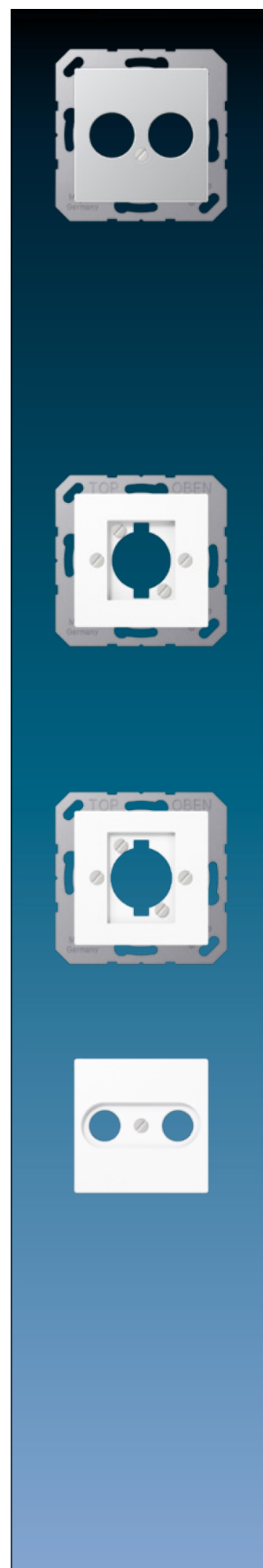
black	L	A 561 BFPLTV SW
-------	---	-----------------

matt lacquered

matt snow white		A 561 BFPLTV WWM
-----------------	--	------------------

matt graphite black		A 561 BFPLTV SWM
---------------------	--	------------------

matt anthracite		A 561 BFPLTV ANM
-----------------	--	------------------



A range



Ref.-no.

Centre plate

for SAT-TV-FM socket outlet inserts ref.-no.: EDA 302 F, GDA 313 F
for standard SAT-TV-FM sockets

Duroplastic (scratch-proof) glossy

white		A 561 PLSAT WW
black		A 561 PLSAT SW

Duroplastic lacquered

aluminium		A 561 PLSAT AL
champagne		A 561 PLSAT CH
mocha		A 561 PLSAT MO

Thermoplastic (breakproof) high-gloss

white		A 561 BFPLSAT WW
black		A 561 BFPLSAT SW

matt lacquered

matt snow white		A 561 BFPLSAT WWM
matt graphite black		A 561 BFPLSAT SWM
matt anthracite		A 561 BFPLSAT ANM

Smart TV socket

with supporting frame, screw fixing only

Cover with snap-on fixing and shutter with spring

including universal modular jack socket ref.-no.: UMA-CAT6A and IEC plug module for antenna cables

Thermoplastic (breakproof) high-gloss

white		MMD A 4521 WW
-------	--	----------------------

Technical data

Specification IEC plug module

External connection:	coaxial plug IEC 60169-2
Internal connection:	F socket IEC 60169-24
Impedance:	75 Ohm
Frequency range:	5 ... 2,400 MHz
Attenuation:	0.0 dB
Installation depth not considering cables	
Universal modular jack socket:	40 mm
IEC plug module:	30 mm

Use right angle plug.

Consider bending radius. Ensure sufficient installation space.

Electronic door signal AC 8 - 12 V ~ / DC 12 - 17 V

with supporting frame, screw fixing only

Thermoplastic (breakproof) high-gloss

white	A 567 S WW
black	A 567 S SW

Thermoplastic (breakproof) lacquered

aluminium	A 567 S AL
champagne	A 567 S CH
mocha	A 567 S MO

matt lacquered

matt anthracite	A 567 S ANM
-----------------	--------------------

Ref.-no.

Triple-tone door signal

with supporting frame, screw fixing only

Thermoplastic (breakproof) high-gloss

white	A 567-G3 WW
black	A 567-G3 SW

Thermoplastic (breakproof) lacquered

aluminium	A 567-G3 AL
champagne	A 567-G3 CH
mocha	A 567-G3 MO

matt lacquered

matt snow white	A 567-G3 WWM
matt graphite black	A 567-G3 SWM
matt anthracite	A 567-G3 ANM

2 separate terminals for 2 or 3 tone signal

power supply: 8 ... 12 V AC or 8 ... 24 V DC, via external power supply (SELV)

e.g. ref.-no. NT 2405 VDC or NT 2415 REG VDC


current consumption: approx. 150 mA

Cable outlet




with supporting frame, screw fixing only

opening for cables with max. 8 mm Ø



Duroplastic (scratch-proof) glossy

white	 A 590 A WW
black	A 590 A SW

Duroplastic lacquered

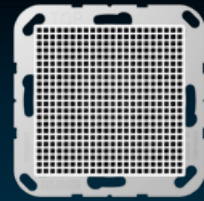
aluminium	  A 590 A AL
champagne	 A 590 A CH
mocha	A 590 A MO

Thermoplastic (breakproof) high-gloss

white	 A 590 BFA WW
black	 A 590 BFA SW

matt lacquered

matt snow white	A 590 BFA WWM
matt graphite black	A 590 BFA SWM
matt anthracite	A 590 BFA ANM



A range



Ref.-no.

Centre plate

for 1-gang modular jack sockets

IAE/UAE sockets ref.-no.: UAE 8 UPO

for sockets Cat. 6 ref.-no.: UAE 8 UPOK6

(1 x 8-pol.)

for WLAN access point ref.-no.: WLAN-AC-UAE, WLAN-AC-POE-UAE

Duroplastic (scratch-proof) glossy

white	P	A 569-1 PLUA WW
-------	---	-----------------

black		A 569-1 PLUA SW
-------	--	-----------------

Duroplastic lacquered

aluminium	P L	A 569-1 PLUA AL
-----------	-----	-----------------

champagne	P	A 569-1 PLUA CH
-----------	---	-----------------

mocha		A 569-1 PLUA MO
-------	--	-----------------

Thermoplastic (breakproof) high-gloss

white	L	A 569-1 BFPLUA WW
-------	---	-------------------

black	L	A 569-1 BFPLUA SW
-------	---	-------------------

matt lacquered

matt snow white	A 569-1 BFPLUA WWM
-----------------	--------------------

matt graphite black	A 569-1 BFPLUA SWM
---------------------	--------------------

matt anthracite	A 569-1 BFPLUA ANM
-----------------	--------------------

Suitable inserts:

Rutenbeck: UAE 8(4) UPO, UAE 8(8) UPO, UAE-Cat.5e-8 UPO OK, UAE-real.Cat.6-8 UPO OK

Telegärtner: AMJ 45, UMJ 45 and ISDN 1 x RJ 45 (TYP 8)

Centre plate

for 2-gang modular jack sockets

IAE/UAE sockets ref.-no.: UAE 2 x 8 UPO, UAE 8-8 UPO

for sockets Cat. 6 ref.-no.: UAE 8-8 UPOK6

(2 x 8-pol.)

for media converter 2-gang ref.-no.: MK-POF-2UAE

Thermoplastic (breakproof) high-gloss

white	L	A 569-2 BFPLUA WW
-------	---	-------------------

black	L	A 569-2 BFPLUA SW
-------	---	-------------------

Thermoplastic (breakproof) lacquered

aluminium	P L	A 569-2 BFPLUA AL
-----------	-----	-------------------

champagne	P	A 569-2 BFPLUA CH
-----------	---	-------------------

mocha		A 569-2 BFPLUA MO
-------	--	-------------------

matt lacquered

matt snow white	A 569-2 BFPLUA WWM
-----------------	--------------------

matt graphite black	A 569-2 BFPLUA SWM
---------------------	--------------------

matt anthracite	A 569-2 BFPLUA ANM
-----------------	--------------------

Suitable inserts:

METZ CONNECT (BTR): 1307441001-i or 1307441200-i; E-Dat design 8/8(8), Class E

Rutenbeck: UAE 8/8 (8/8) UPO, UAE 2x8 (8) UPO, UAE-Cat.5e-8/8 UPO OK, UAE-real.Cat.6-8/8 UPO OK

Telegärtner: AMJ 45, UMJ 45 and ISDN 2 x RJ 45 (TYP 8/8)

Ref.-no.

Centre plate (screw fixing)

for stereo loudspeaker socket ref.-no.: SLA 2 WW, SLA 2 AN

for 2-gang supporting frame ref.-no.: UMA-MA2 in connection with universal modular jack socket type A

ref.-no.: UMA-CAT6A

Duroplastic (scratch-proof) glossywhite P **A 569 PLT WW**black **A 569 PLT SW****Duroplastic lacquered**aluminium P L **A 569 PLT AL**champagne P **A 569 PLT CH**mocha **A 569 PLT MO****Thermoplastic (breakproof) high-gloss**white L **A 569 BFPLT WW**black L **A 569 BFPLT SW****matt lacquered**matt snow white **A 569 BFPLT WWM**matt graphite black **A 569 BFPLT SWM**matt anthracite **A 569 BFPLT ANM**for **Rutenbeck**: UM-MA 2 Up with UM-real Cat.6a Afor **Dätwyler**: flush-mounted modular jack socket (for 2 x MS-K 1/8 Cat.6a), ref.-no.: 440 012**Centre plate (snap-on fixing)**

for USB charger ref.-no.: USB 15 CA WW, USB 15 CA SW

Thermoplastic (breakproof) high-glosswhite L **A 1569 USB WW**black L **A 1569 USB SW****Thermoplastic (breakproof) lacquered**aluminium P L **A 1569 USB AL**champagne P **A 1569 USB CH**mocha **A 1569 USB MO****matt lacquered**matt snow white **A 1569 USB WWM**matt graphite black **A 1569 USB SWM**matt anthracite **A 1569 USB ANM**

USB charger see page 72

Centre plate

with supporting frame, screw fixing only

for D-subminiature sockets ref.-no.: D SUB 9

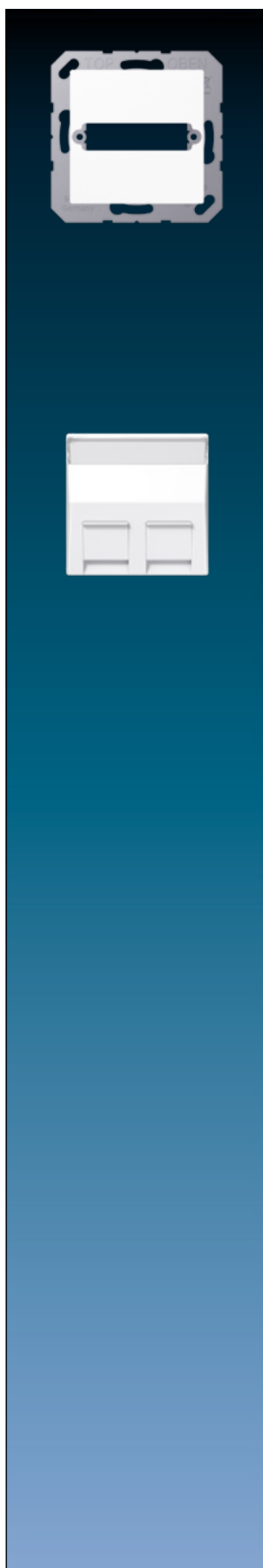
(mounting plate ref.-no. D 9 necessary)

for D-subminiature socket 15-pole

(mounting plate ref.-no. D 15 necessary)

for 1 socket**Thermoplastic (breakproof) high-gloss**white L **A 594-1915 WW**black L **A 594-1915 SW****Thermoplastic (breakproof) lacquered**aluminium P L **A 594-1915 AL**champagne P **A 594-1915 CH**mocha **A 594-1915 MO****matt lacquered**matt anthracite **A 594-1915 ANM**

A range



Ref.-no.

Centre plate

with supporting frame, screw fixing only
for D-subminiature socket 25-pole
for 1 socket

Thermoplastic (breakproof) high-gloss

white ■ A 594-125 WW

black ■ A 594-125 SW

Thermoplastic (breakproof) lacquered

aluminium ■ ■ A 594-125 AL

champagne ■ A 594-125 CH

mocha A 594-125 MO

matt lacquered

matt anthracite A 594-125 ANM

Centre plate with inscription field 9 x 51 mm

for mounting adapter 30° ref.-no.: 3069..

Thermoplastic (breakproof) high-gloss

white A 569-30 BF PL WW

black A 569-30 BF PL SW

Thermoplastic (breakproof) lacquered

aluminium A 569-30 BF PL AL

matt lacquered

matt anthracite A 569-30 BF PL ANM

Ref.-no.




Centre plate (snap-on fixing)

with supporting frame, screw fixing only
for universal modular jack socket ref.-no.: UMA-CAT6A

**Shutter with spring
for 1 socket****Thermoplastic (breakproof) high-gloss**

white	 A 1569-1 WE WW
black	 A 1569-1 WE SW



Thermoplastic (breakproof) lacquered

aluminium	  A 1569-1 WE AL
champagne	 A 1569-1 WE CH
mocha	A 1569-1 WE MO




matt lacquered

matt snow white	A 1569-1 WE WWM
matt graphite black	A 1569-1 WE SWM
matt anthracite	A 1569-1 WE ANM

for 2 sockets**Thermoplastic (breakproof) high-gloss**

white	 A 1569-2 WE WW
black	 A 1569-2 WE SW

Thermoplastic (breakproof) lacquered

aluminium	  A 1569-2 WE AL
champagne	 A 1569-2 WE CH
mocha	A 1569-2 WE MO

matt lacquered

matt snow white	A 1569-2 WE WWM
matt graphite black	A 1569-2 WE SWM
matt anthracite	A 1569-2 WE ANM

for modular jack sockets

RADIALL:

modular jack unshielded 6P6C, RJ 12, Cat. 4 (ref.-no. R280MOD804)
modular jack unshielded 8P8C, RJ 45, Cat. 4 (ref.-no. R280MOD805)
modular jack unshielded 8P8C, RJ 45, Cat. 5e (ref.-no. R280MOD807)

Panduit:

keystone jack KJ 88..
keystone jack KJ 588..

Assmann:

module DN-93612 Cat. 6A, shielded, Keystone
module DN-93614

SCHRACK

HSPMRJ6G1A, HSEMRJ6GBA, HSEMRJ6GBS, HSEMRJ6GWA, HSEMRJ6GWS, HSEMRJ6UWS



A range



Ref.-no.

Centre plate (snap-on fixing)

with supporting frame, screw fixing only
for modular jack sockets

TE Connectivity (Tyco Electronics / AMP NETCONNECT)

for cable Ø max. 10 mm:

EMT-jack, Cat. 5e, 180° ref.-no. 0-0188650-5

EMT-jack, Cat. 5e, 90° ref.-no. 0-0188650-6

for cable Ø max. 6.5 mm:

EMT-jack, Cat. 5e, 180° ref.-no. 0-0338038-1

EMT-jack, Cat. 5e, 90° ref.-no. 0-0338038-2

Toolless Jack, Cat. 3 unshielded: ref.-no. 0-1116603-x

Toolless Jack, Cat. 5e unshielded: ref.-no. 0-1116604-x,

Toolless Jack, Cat. 5e shielded: ref.-no. 0-1339015-1

Toolless Jack, Cat. 6 unshielded: ref.-no. 0-1116605-x,

Toolless Jack, Cat. 6 shielded: ref.-no. 0-1339016-1

MTRJ-LWL jack: ref.-no. 1278414-1

Shutter with spring

for 1 socket

Thermoplastic (breakproof) high-gloss

white

A 1569-15 WE WW

black

A 1569-15 WE SW

Thermoplastic (breakproof) lacquered

aluminium

A 1569-15 WE AL

champagne

A 1569-15 WE CH

mocha

A 1569-15 WE MO

matt lacquered

matt snow white

A 1569-15 WE WWM

matt graphite black

A 1569-15 WE SWM

matt anthracite

A 1569-15 WE ANM

for 2 sockets

Thermoplastic (breakproof) high-gloss

white

A 1569-25 WE WW

black

A 1569-25 WE SW

Thermoplastic (breakproof) lacquered

aluminium

A 1569-25 WE AL

champagne

A 1569-25 WE CH

mocha

A 1569-25 WE MO

matt lacquered

matt snow white

A 1569-25 WE WWM

matt graphite black

A 1569-25 WE SWM

matt anthracite

A 1569-25 WE ANM

Centre plate (snap-on fixing)

with supporting frame, screw fixing only
for modular jack Avaya (AT&T)

Cat. 3 RJ 45, M1 series: ref.-no. M1BH..., unshielded,

Cat. 5 RJ 45, MPS100 series: ref.-no. MPS100BH..., unshielded,

Cat. 6 RJ 45, MGS200 series: GigaSPEED, ref.-no. MGS200BH..., unshielded

Shutter with spring

for 2 sockets

Thermoplastic (breakproof) high-gloss

white

A 1569-2 AT WW

Ref.-no.

Centre plate (snap-on fixing)

with supporting frame, screw fixing only

for modular jack cat. 5 / 6 Panduit: CJSE88T, CJS88/588/688, CJ688/688T

**Shutter with spring
for 2 sockets****Thermoplastic (breakproof) high-gloss**

white

A 1569-2 PAND WW

Centre plate (snap-on fixing)

with supporting frame, screw fixing only

for modular jack socket Siemon: CT range

**Shutter with spring
for 2 sockets****Thermoplastic (breakproof) high-gloss**

white

A 1569-2 SIE WW

for modular jack sockets

Siemon

RJ 45, Keystone, cat. 5e, unshielded

Toolless MAX Modules Siemon no. MX-K-C5-80

JUNG

Universal modular jack socket cat. 6A iso, type A: ref.-no. UMA-CAT6A

Radiall

RJ 45, Keystone, cat. 6A, shielded

Radiall no. R280MOD810

Assmann

DIGITUS CAT 6 Keystone Jack

module DN-93612 Cat. 6A, shielded

module DN-93614

module DN-93615

Nexans

RJ45, Keystone, Cat.6

shielded: e.g. LANmark-6 EVO Snap-in bus, Nexans no.: N420.666

unshielded: e.g. LANmark-6 EVO Snap-in bus, Nexans no.: N420.660

necessary: Blue clip for EVO Snap-in connector to keystone format (2,0 ... 2,25 mm)

Nexans no. N429.626

Telegärtner

(RJ45, Keystone, Cat.6A iso, shielded)

e.g. AMJ module K, T568A, Telegärtner-nr. J00029K0036

Furukawa

(RJ45, Keystone, Cat.5e, unshielded)

GigaLan module, Furukawa no. 35050350

Dätwyler

(RJ45, Keystone, Cat.6A, shielded)

unilan Keystone module KS-T 6A 1/8 Toolless, Dätwyler no. 418060

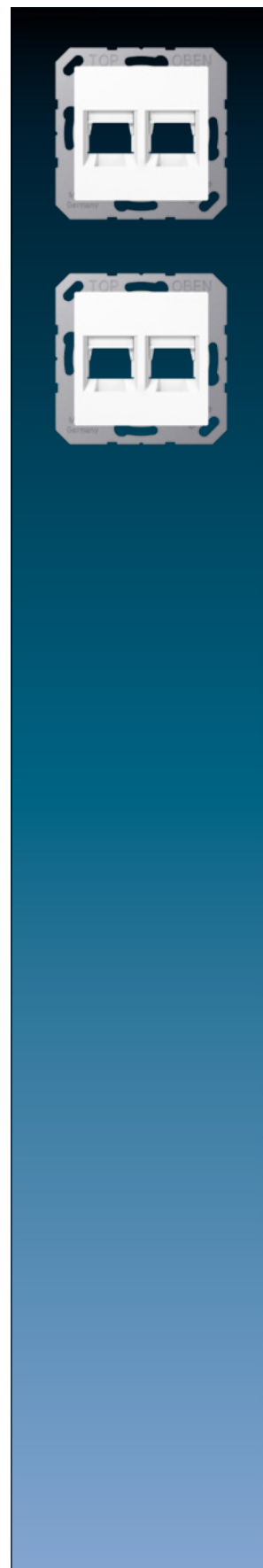
Rutenbeck

(RJ45, Keystone, Cat.6A iso, shielded)

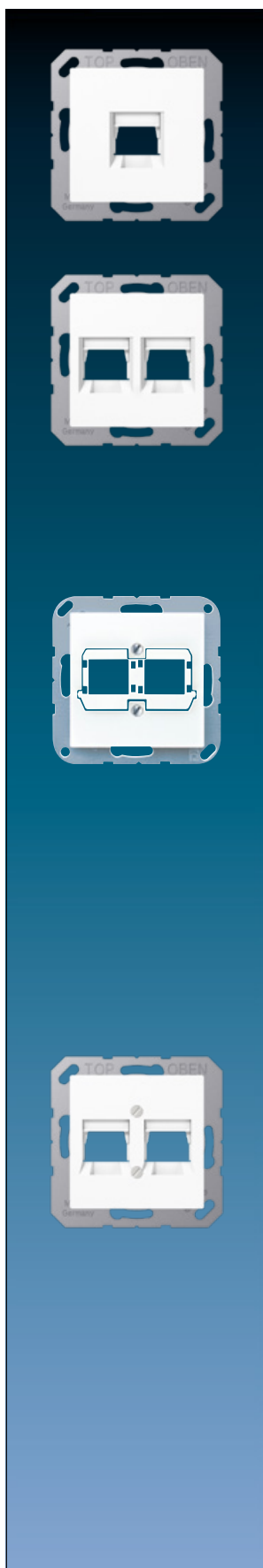
e.g. UM-Cat.6A iso A, Rutenbeck no. 13900304

SCHRACK

HSPMRJ6G1A, HSEMRJ6GBA, HSEMRJ6GBS, HSEMRJ6GWA, HSEMRJ6GWS, HSEMRJ6UWS



A range



Ref.-no.

Centre plate (snap-on fixing)

with supporting frame, screw fixing only
for modular jack socket Brand-Rex

Shutter with spring for 1 socket

Thermoplastic (breakproof) high-gloss

white

A 1569-1 BR WW

for 2 sockets

Thermoplastic (breakproof) high-gloss

white

A 1569-2 BR WW

for modular jack sockets

Brand-Rex

(RJ45, Cat.6A, unshielded):

10GPlus Cat6A tool-free jack UTP, Brand-Rex no. AC6JAKU002

10GPlus Cat6A snap in jack UTP, Brand-Rex no. AC6JAKU0K2

AMP NETCONNECT

(RJ45, Cat.6A iso, shielded)

e.g. Twist 6AS SL Jack, AMP no. 0-1711716-1

Centre plate (screw fixing)

with supporting frame, screw fixing only
for modular jack Reichle + De-Massari freenet classic
shielded, cat. 5

only for module 2 x RJ 45

Reichle + De-Massari no. R35252

Duroplastic (scratch-proof) glossy

white

A 569-21 ACS WW

black

A 569-21 ACS SW

Duroplastic lacquered

aluminium

A 569-21 ACS AL

Thermoplastic (breakproof) high-gloss

white

A 569-21 BFACS WW

black

A 569-21 BFACS SW

matt lacquered

matt anthracite

A 569-21 BFACS ANM

Centre plate (screw fixing)

with supporting frame, screw fixing only
for modular jack ITT

Shutter with spring for 2 sockets

Thermoplastic (breakproof) high-gloss

white

A 569-2 NITT WW

Thermoplastic (breakproof) lacquered

champagne

A 569-2 NITT CH

mocha

A 569-2 NITT MO

other colours on request

Ref.-no.

Centre plate (screw fixing)



with supporting frame, screw fixing only
for modular jack Lexcom

Shutter with spring for 2 sockets

Thermoplastic (breakproof) high-gloss

white	  A 569-2 NLEX WW
black	 A 569-2 NLEX SW


Thermoplastic (breakproof) lacquered

aluminium	  A 569-2 NLEX AL
champagne	 A 569-2 NLEX CH
mocha	A 569-2 NLEX MO



Potential equalisation socket

with supporting frame, screw fixing only
with 2 one-pole built-in male sockets according to DIN 42801
for wires up to 6 mm²



Duroplastic (scratch-proof) glossy

white	 A 565-2 WW
black	A 565-2 SW

Duroplastic lacquered

aluminium	  A 565-2 AL
-----------	--

Thermoplastic (breakproof) high-gloss

white	 A 565-2 BF WW
black	 A 565-2 BF SW

matt lacquered

matt anthracite	A 565-2 BF ANM
-----------------	----------------

Right angle plug





for potential equalisation socket
screw terminal for wires with 4 or 6 mm²

65 WIS

Blank centre plate (snap-on fixing)

with supporting frame, screw fixing only



Thermoplastic (breakproof) high-gloss

white	  A 594-0 WW
black	  A 594-0 SW

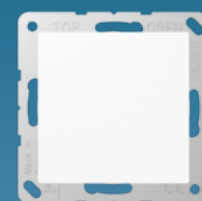
Thermoplastic (breakproof) lacquered

aluminium	   A 594-0 AL
champagne	  A 594-0 CH
mocha	 A 594-0 MO

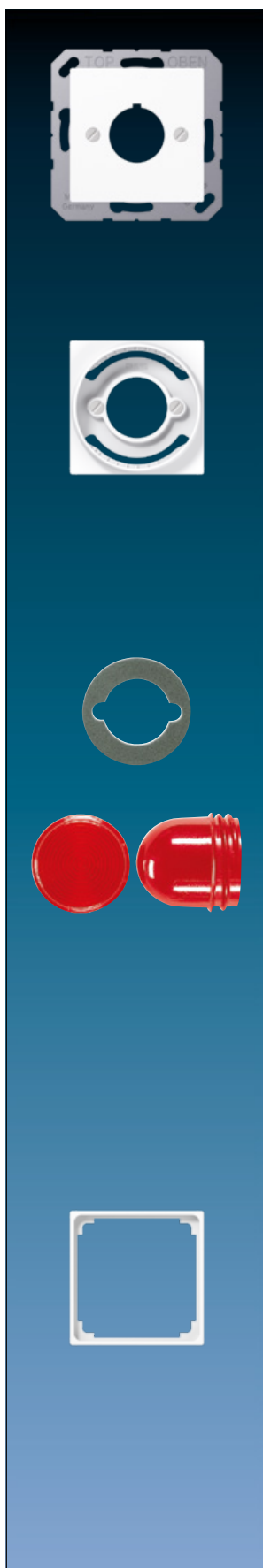
matt lacquered

matt snow white	 A 594-0 WWM
matt graphite black	 A 594-0 SWM
matt anthracite	 A 594-0 ANM

The cover will be installed with snap-on fixing and enables individual cuttings or drilling holes.



A range



Ref.-no.

Centre plate

with supporting frame, screw fixing only
for commanding appliance with \varnothing 22.5 mm
e.g. Moeller, Rafi, Schlegel, Lumitas, Kraus-Naimer

Duroplastic (scratch-proof) glossy

white	IP	A 564 WW
black		A 564 SW
yellow		A 564 GE

Duroplastic lacquered

aluminium	IP L	A 564 AL
-----------	------	----------

Centre plate

for pilot lights ref.-no.: 938-10 U and 938-14 U

Thermoplastic (breakproof) high-gloss

white	IP	A 537 BFPL WW
black	IP	A 537 BFPL SW

Thermoplastic (breakproof) lacquered

aluminium	IP	A 537 BFPL AL
champagne	IP	A 537 BFPL CH
mocha	IP	A 537 BFPL MO

matt lacquered

matt anthracite	IP	A 537 BFPL ANM
-----------------	----	----------------

Sealing gasket

for covers for pilot light ref.-no.: ..537.., ..937..

	IP	37 D
--	----	------

To obtain protection level IP 44 the sealing gasket ref.-no.: 37 D has to be placed into the pilot light centre plate and IP 44 frame has to be used.

Screw cap

for covers for pilot light ref.-no.: ..537.., ..937..

flat, for lamps up to max. length of 35 mm

transparent	37.02
red	37.05
green	37.06
yellow	37.07
blue	37.08

high, for lamps up to max. length of 54 mm

transparent	37
red	37 R
green	37 G
yellow	37 GE
blue	37 BL

Intermediate frame

to install devices with 50 x 50 mm cover (DIN 49075)

Thermoplastic (breakproof) high-gloss

white	A 590 Z WW
black	A 590 Z SW

Thermoplastic (breakproof) lacquered

aluminium	A 590 Z AL
-----------	------------

matt lacquered

matt snow white	A 590 Z WWM
matt graphite black	A 590 Z SWM

Ref.-no.

Intermediate frame

for the installation of "Ackermann" RJ 45 sockets WAEG..

Thermoplastic (breakproof) high-gloss

white

A 590 ZA WW

Hinged lid with spring 80.5 x 80.5 mm

with integrated frame

for sockets, switches and push-buttons with centre plate of the AS / A ranges

Thermoplastic (breakproof) high-gloss

white

AS 581 BFKL WW

Hinged lid with spring 80.5 x 80.5 mm

with safety lock (24 different locks)

with integrated frame

for sockets, switches and push-buttons with centre plate of the AS / A ranges

Thermoplastic (breakproof) high-gloss

white

AS 581 BFKLSL WW

Key

(Spare part)

for all hinged lids with safety lock

1 piece

802 SL - 825 SL

When ordering, please indicate lock number!

Sealing gasket

to ensure protection level IP 44

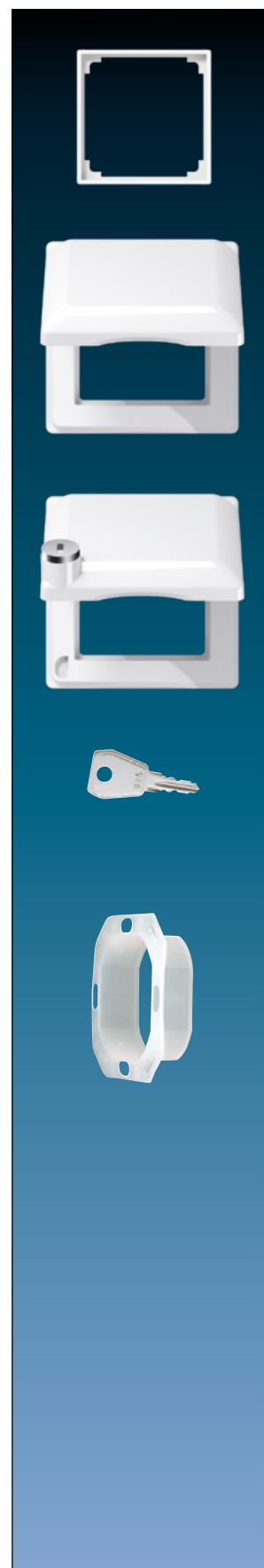
for all flush-mounted switch/push-button inserts of the 500 range, SCHUKO® sockets with hinged lid, rotary switches and timer switch inserts

for all devices, covers and frames with blue "IP 44 marking"

in some cases with additional gaskets acc. to product description

IP

551 WU



A range



Ref.-no.

Surface cap

with integrated frame and non-flammable ground plate
for inserts with covers of the A range (except key switches ref.-no. ..15,
3-level-switch and socket for Switzerland type 13)
1-gang, 85 x 85 x 47 mm

Duroplastic (scratch-proof) glossy

white	AS 581 A WW
black	AS 581 A SW

Duroplastic lacquered

aluminium	AS 581 A AL
champagne	AS 581 A CH
mocha	AS 581 A MO

2-gang, 156 x 85 x 47 mm

Duroplastic (scratch-proof) glossy

white	AS 582 A WW
black	AS 582 A SW

Duroplastic lacquered

aluminium	AS 582 A AL
champagne	AS 582 A CH
mocha	AS 582 A MO

3-gang, 227 x 85 x 47 mm

Duroplastic (scratch-proof) glossy

white	AS 583 A WW
black	AS 583 A SW

Duroplastic lacquered

aluminium	AS 583 A AL
champagne	AS 583 A CH
mocha	AS 583 A MO

Ref.-no.

Surface cap

with inscription field 12 x 55.5 mm

with integrated frame, non-flammable ground plate and 2 cable inlets
for inserts with covers of the A range (except key switches ref.-no. ...15,
3-level-switch and socket for Switzerland type 13)
1-gang, 85 x 85 x 47 mm

Thermoplastic (breakproof) high-gloss

white **AS 581 ANA WW**

Cable inlet

for surface cap ref.-no.: AS 581 ANA WW

(Spare part)

white **15 WW**

Transparent cover with paper inlay

for inscription field 12 x 55.5 mm

(Spare part)

paper inlay white **AS 81 NA**

Mounting box for surface caps

(Spare part)

1-gang **581 A**

2-gang **582 A**

3-gang **583 A**

Strain relief

for surface caps

for cables 3 x 1.5 mm² up to 5 x 2.5 mm² (Ø 7 up to 13 mm)

58 A ZUG

Inlets for cables, pipes and trunkings in surface caps

for cable and mini trunking

white **11 WW**

black **11 SW**

for trunking 15 x 15 mm

white **12 WW**

black **12 SW**

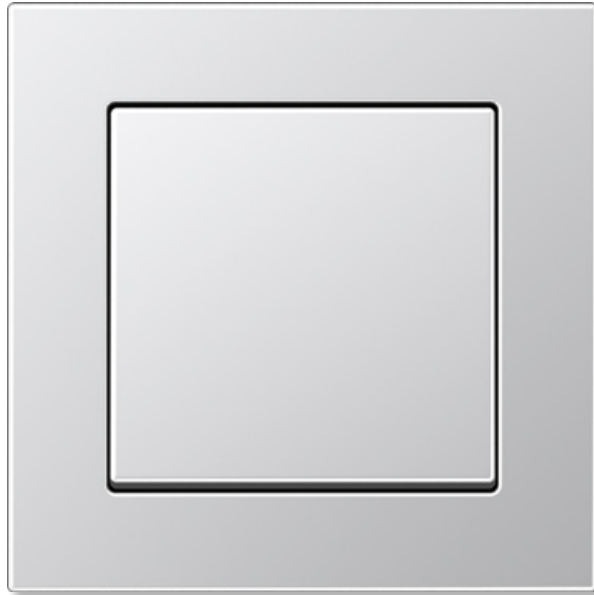
for pipes with outside Ø 16 mm

white **13 WW**

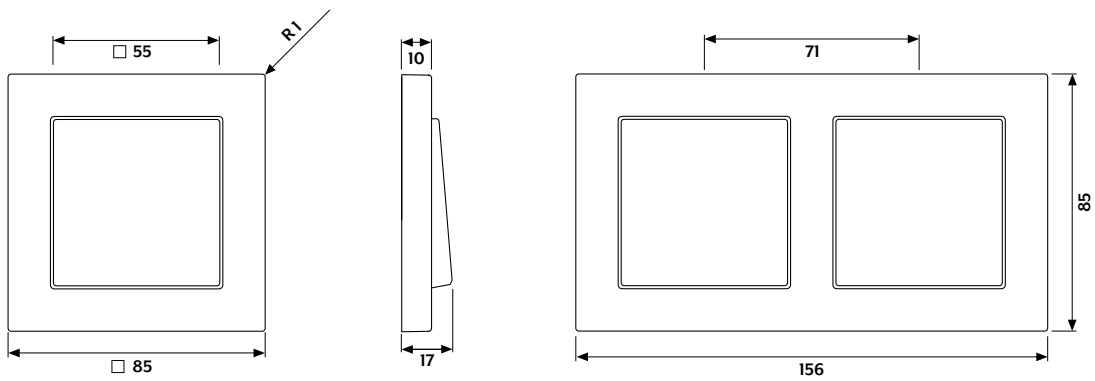
black **13 SW**



A 550



ALUMINIUM (LACQUERED)



Frame edge radius

R 1

Frame dimensions

1-gang	85 mm x 85 mm
2-gang	85 mm x 156 mm
3-gang	85 mm x 227 mm
4-gang	85 mm x 298 mm
5-gang	85 mm x 369 mm

Ref.-no.



Frame
for horizontal and vertical installation
for A range

1-gang frames also suitable for British Standard installations (supporting frame 80 x 80)

If possible, combine only with centre plates made of thermoplastic (breakproof, high-gloss).

white



Thermoplastic (breakproof) high-gloss

1-gang	85 x 85 mm	 A 5581 BF WW
2-gang	85 x 156 mm	 A 5582 BF WW
3-gang	85 x 227 mm	A 5583 BF WW
4-gang	85 x 298 mm	A 5584 BF WW
5-gang	85 x 369 mm	A 5585 BF WW

If possible, combine only with centre plates made of thermoplastic (breakproof, high-gloss).








black

Thermoplastic (breakproof) high-gloss

1-gang	85 x 85 mm	 A 5581 BF SW
2-gang	85 x 156 mm	 A 5582 BF SW
3-gang	85 x 227 mm	A 5583 BF SW
4-gang	85 x 298 mm	A 5584 BF SW
5-gang	85 x 369 mm	A 5585 BF SW

aluminium

Thermoplastic (breakproof) lacquered

1-gang	85 x 85 mm	  A 5581 BF AL
2-gang	85 x 156 mm	  A 5582 BF AL
3-gang	85 x 227 mm	 A 5583 BF AL
4-gang	85 x 298 mm	 A 5584 BF AL
5-gang	85 x 369 mm	 A 5585 BF AL

matt snow white

Thermoplastic (breakproof) lacquered

1-gang	85 x 85 mm	A 5581 BF WWM
2-gang	85 x 156 mm	A 5582 BF WWM
3-gang	85 x 227 mm	A 5583 BF WWM
4-gang	85 x 298 mm	A 5584 BF WWM
5-gang	85 x 369 mm	A 5585 BF WWM

matt graphite black

Thermoplastic (breakproof) lacquered

1-gang	85 x 85 mm	A 5581 BF SWM
2-gang	85 x 156 mm	A 5582 BF SWM
3-gang	85 x 227 mm	A 5583 BF SWM
4-gang	85 x 298 mm	A 5584 BF SWM
5-gang	85 x 369 mm	A 5585 BF SWM

matt anthracite

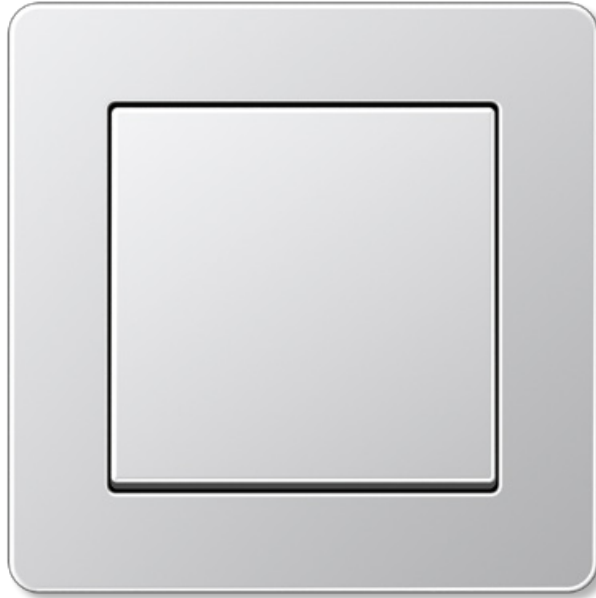
Thermoplastic (breakproof) lacquered

1-gang	85 x 85 mm	A 5581 BF ANM
2-gang	85 x 156 mm	A 5582 BF ANM
3-gang	85 x 227 mm	A 5583 BF ANM
4-gang	85 x 298 mm	A 5584 BF ANM
5-gang	85 x 369 mm	A 5585 BF ANM

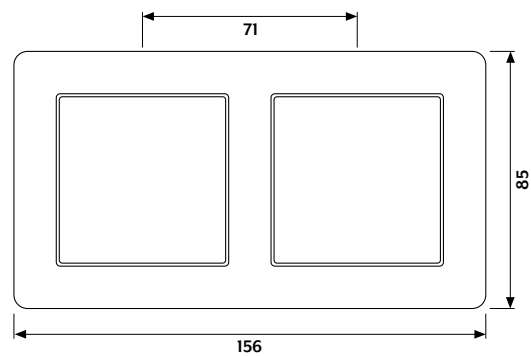
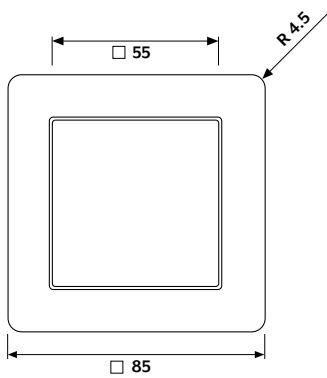
Labelling is possible with labelling kit ref.-no. AC 80 NAS



A FLOW



ALUMINIUM (LACQUERED)



Frame edge radius

R 4.5

Frame dimensions

1-gang	85 mm x 85 mm
2-gang	85 mm x 156 mm
3-gang	85 mm x 227 mm
4-gang	85 mm x 298 mm
5-gang	85 mm x 369 mm

Ref.-no.



Frame
for horizontal and vertical installation
for A range

1-gang frames also suitable for British Standard installations (supporting frame 80 x 80)

If possible, combine only with centre plates made of thermoplastic (breakproof, high-gloss).

white



Thermoplastic (breakproof) high-gloss

1-gang	85 x 85 mm	 AF 581 BF WW
2-gang	85 x 156 mm	 AF 582 BF WW
3-gang	85 x 227 mm	AF 583 BF WW
4-gang	85 x 298 mm	AF 584 BF WW
5-gang	85 x 369 mm	AF 585 BF WW

If possible, combine only with centre plates made of thermoplastic (breakproof, high-gloss).








black

Thermoplastic (breakproof) high-gloss

1-gang	85 x 85 mm	 AF 581 BF SW
2-gang	85 x 156 mm	 AF 582 BF SW
3-gang	85 x 227 mm	AF 583 BF SW
4-gang	85 x 298 mm	AF 584 BF SW
5-gang	85 x 369 mm	AF 585 BF SW

aluminium

Thermoplastic (breakproof) lacquered

1-gang	85 x 85 mm	  AF 581 BF AL
2-gang	85 x 156 mm	  AF 582 BF AL
3-gang	85 x 227 mm	 AF 583 BF AL
4-gang	85 x 298 mm	 AF 584 BF AL
5-gang	85 x 369 mm	 AF 585 BF AL

matt snow white

Thermoplastic (breakproof) lacquered

1-gang	85 x 85 mm	AF 581 BF WWM
2-gang	85 x 156 mm	AF 582 BF WWM
3-gang	85 x 227 mm	AF 583 BF WWM
4-gang	85 x 298 mm	AF 584 BF WWM
5-gang	85 x 369 mm	AF 585 BF WWM

matt graphite black

Thermoplastic (breakproof) lacquered

1-gang	85 x 85 mm	AF 581 BF SWM
2-gang	85 x 156 mm	AF 582 BF SWM
3-gang	85 x 227 mm	AF 583 BF SWM
4-gang	85 x 298 mm	AF 584 BF SWM
5-gang	85 x 369 mm	AF 585 BF SWM

matt anthracite

Thermoplastic (breakproof) lacquered

1-gang	85 x 85 mm	AF 581 BF ANM
2-gang	85 x 156 mm	AF 582 BF ANM
3-gang	85 x 227 mm	AF 583 BF ANM
4-gang	85 x 298 mm	AF 584 BF ANM
5-gang	85 x 369 mm	AF 585 BF ANM

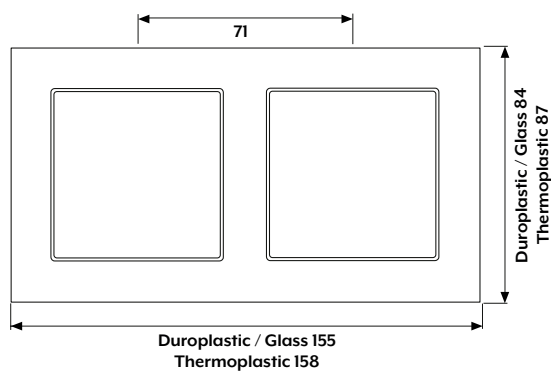
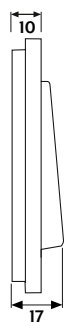
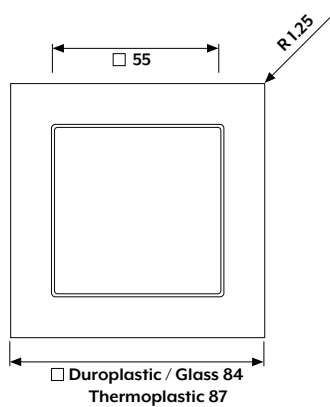
Labelling is possible with labelling kit ref.-no. AC 80 NAS



A CREATION



MOCHA



Frame edge radius

R 1.25

Frame dimensions

1-gang	84 mm x 84 mm
2-gang	84 mm x 155 mm
3-gang	84 mm x 226 mm
4-gang	84 mm x 297 mm
5-gang	84 mm x 368 mm

Ref.-no.

Frame
for horizontal and vertical installation
for A range

white**Duroplastic (scratch-proof) glossy**

1-gang	84 x 84 mm	P	AC 581 WW
2-gang	84 x 155 mm	P	AC 582 WW
3-gang	84 x 226 mm	P	AC 583 WW
4-gang	84 x 297 mm	P	AC 584 WW
5-gang	84 x 368 mm	P	AC 585 WW

Thermoplastic (breakproof) high-gloss

1-gang	87 x 87 mm	L	AC 581 BF WW
2-gang	87 x 158 mm	L	AC 582 BF WW
3-gang	87 x 229 mm		AC 583 BF WW
4-gang	87 x 300 mm		AC 584 BF WW
5-gang	87 x 371 mm		AC 585 BF WW

black**Duroplastic (scratch-proof) glossy**

1-gang	84 x 84 mm		AC 581 SW
2-gang	84 x 155 mm		AC 582 SW
3-gang	84 x 226 mm		AC 583 SW
4-gang	84 x 297 mm		AC 584 SW
5-gang	84 x 368 mm		AC 585 SW

Thermoplastic (breakproof) high-gloss

1-gang	87 x 87 mm	L	AC 581 BF SW
2-gang	87 x 158 mm	L	AC 582 BF SW
3-gang	87 x 229 mm		AC 583 BF SW
4-gang	87 x 300 mm		AC 584 BF SW
5-gang	87 x 371 mm		AC 585 BF SW

aluminium**Duroplastic lacquered**

1-gang	84 x 84 mm	P L	AC 581 AL
2-gang	84 x 155 mm	P L	AC 582 AL
3-gang	84 x 226 mm	P	AC 583 AL
4-gang	84 x 297 mm	P	AC 584 AL
5-gang	84 x 368 mm	P	AC 585 AL

champagne**Duroplastic lacquered**

1-gang	84 x 84 mm	P	AC 581 CH
2-gang	84 x 155 mm	P	AC 582 CH
3-gang	84 x 226 mm	P	AC 583 CH
4-gang	84 x 297 mm	P	AC 584 CH
5-gang	84 x 368 mm	P	AC 585 CH

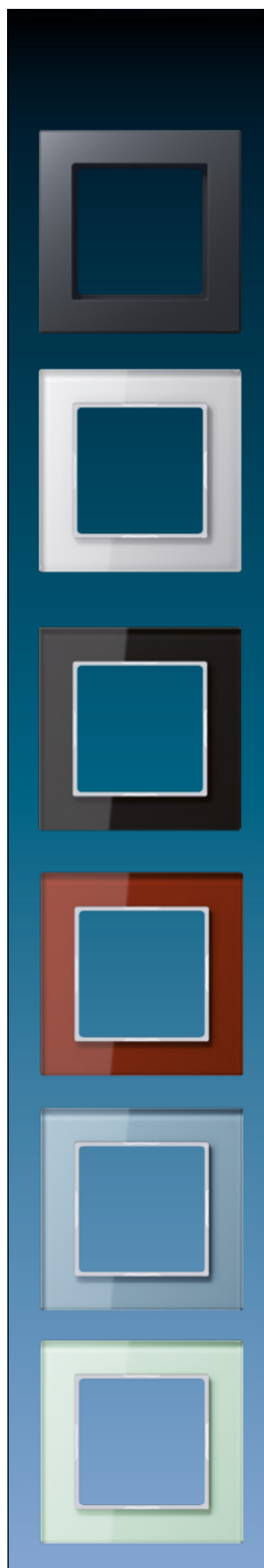
mocha**Duroplastic lacquered**

1-gang	84 x 84 mm		AC 581 MO
2-gang	84 x 155 mm		AC 582 MO
3-gang	84 x 226 mm		AC 583 MO
4-gang	84 x 297 mm		AC 584 MO
5-gang	84 x 368 mm		AC 585 MO



A range

A CREATION



Ref.-no.

Frame
for horizontal and vertical installation
for A range

matt anthracite

Thermoplastic (breakproof) lacquered

1-gang	87 x 87 mm	AC 581 BF ANM
2-gang	87 x 158 mm	AC 582 BF ANM
3-gang	87 x 229 mm	AC 583 BF ANM
4-gang	87 x 300 mm	AC 584 BF ANM
5-gang	87 x 371 mm	AC 585 BF ANM

Glass frame
for horizontal and vertical installation
for A range

white

1-gang	84 x 84 mm	AC 581 GL WW
2-gang	84 x 155 mm	AC 582 GL WW
3-gang	84 x 226 mm	AC 583 GL WW
4-gang	84 x 297 mm	AC 584 GL WW
5-gang	84 x 368 mm	AC 585 GL WW

black

1-gang	84 x 84 mm	AC 581 GL SW
2-gang	84 x 155 mm	AC 582 GL SW
3-gang	84 x 226 mm	AC 583 GL SW
4-gang	84 x 297 mm	AC 584 GL SW
5-gang	84 x 368 mm	AC 585 GL SW

red

1-gang	84 x 84 mm	AC 581 GL RT
2-gang	84 x 155 mm	AC 582 GL RT
3-gang	84 x 226 mm	AC 583 GL RT
4-gang	84 x 297 mm	AC 584 GL RT
5-gang	84 x 368 mm	AC 585 GL RT

blue-grey

1-gang	84 x 84 mm	AC 581 GL BLGR
2-gang	84 x 155 mm	AC 582 GL BLGR
3-gang	84 x 226 mm	AC 583 GL BLGR
4-gang	84 x 297 mm	AC 584 GL BLGR
5-gang	84 x 368 mm	AC 585 GL BLGR

soft white

1-gang	84 x 84 mm	AC 581 GL WMT
2-gang	84 x 155 mm	AC 582 GL WMT
3-gang	84 x 226 mm	AC 583 GL WMT
4-gang	84 x 297 mm	AC 584 GL WMT
5-gang	84 x 368 mm	AC 585 GL WMT

Ref.-no.

**Glass frame
for horizontal and vertical installation
for A range**

silver (mirror finish)

1-gang	84 x 84 mm	AC 581 GL SI
2-gang	84 x 155 mm	AC 582 GL SI
3-gang	84 x 226 mm	AC 583 GL SI
4-gang	84 x 297 mm	AC 584 GL SI
5-gang	84 x 368 mm	AC 585 GL SI

champagne

1-gang	84 x 84 mm	AC 581 GL CH
2-gang	84 x 155 mm	AC 582 GL CH
3-gang	84 x 226 mm	AC 583 GL CH
4-gang	84 x 297 mm	AC 584 GL CH
5-gang	84 x 368 mm	AC 585 GL CH

mocha

1-gang	84 x 84 mm	AC 581 GL MO
2-gang	84 x 155 mm	AC 582 GL MO
3-gang	84 x 226 mm	AC 583 GL MO
4-gang	84 x 297 mm	AC 584 GL MO
5-gang	84 x 368 mm	AC 585 GL MO

Labelling kit for A CREATION, A 550, A FLOW

consists of 5 adhesive labelling fields and 1 mounting adapter

inscription field 9 x 54 mm **AC 80 NAS**

Adhesive labelling field

for labelling purposes

(Spare part)

inscription field 9 x 54 mm **AC 80 NA**

Mounting adapter

for positioning of adhesive labelling field

(Spare part)

AC 80 MA



A range

A CREATION



Ref.-no.

Frame with inscription field 9 x 55 mm for A range

Thermoplastic (breakproof) high-gloss

white	1-gang	87 x 87 mm
black	1-gang	87 x 87 mm

AC 581 BFNA WW
AC 581 BFNA SW

Thermoplastic (breakproof) lacquered

matt anthracite	1-gang	87 x 87 mm
-----------------	--------	------------

AC 581 BFNA ANM

for vertical installation

Thermoplastic (breakproof) high-gloss white

2-gang	87 x 158 mm
3-gang	87 x 229 mm
4-gang	87 x 300 mm
5-gang	87 x 371 mm

AC 582 BFNA WW
AC 583 BFNA WW
AC 584 BFNA WW
AC 585 BFNA WW

black

2-gang	87 x 158 mm
3-gang	87 x 229 mm
4-gang	87 x 300 mm
5-gang	87 x 371 mm

AC 582 BFNA SW
AC 583 BFNA SW
AC 584 BFNA SW
AC 585 BFNA SW

Thermoplastic (breakproof) lacquered matt anthracite

2-gang	87 x 158 mm
3-gang	87 x 229 mm
4-gang	87 x 300 mm
5-gang	87 x 371 mm

AC 582 BFNA ANM
AC 583 BFNA ANM
AC 584 BFNA ANM
AC 585 BFNA ANM

Ref.-no.

**Frame with inscription field 9 x 55 mm
for horizontal installation**

for A range

Thermoplastic (breakproof) high-gloss

white

2-gang	158 x 87 mm	☐ AC 5820 BFNA WW
3-gang	229 x 87 mm	AC 5830 BFNA WW
4-gang	300 x 87 mm	AC 5840 BFNA WW
5-gang	371 x 87 mm	AC 5850 BFNA WW

black

2-gang	158 x 87 mm	☐ AC 5820 BFNA SW
3-gang	229 x 87 mm	AC 5830 BFNA SW
4-gang	300 x 87 mm	AC 5840 BFNA SW
5-gang	371 x 87 mm	AC 5850 BFNA SW

Thermoplastic (breakproof) lacquered

matt anthracite

2-gang	158 x 87 mm	AC 5820 BFNA ANM
3-gang	229 x 87 mm	AC 5830 BFNA ANM
4-gang	300 x 87 mm	AC 5840 BFNA ANM
5-gang	371 x 87 mm	AC 5850 BFNA ANM



Transparent cover with paper inlay

for inscription field 9 x 55 mm

(Spare part)

paper inlay white

AC 81 NA

ABC.....



CD range



CD 500 in white



CD PLUS in white / stainless steel



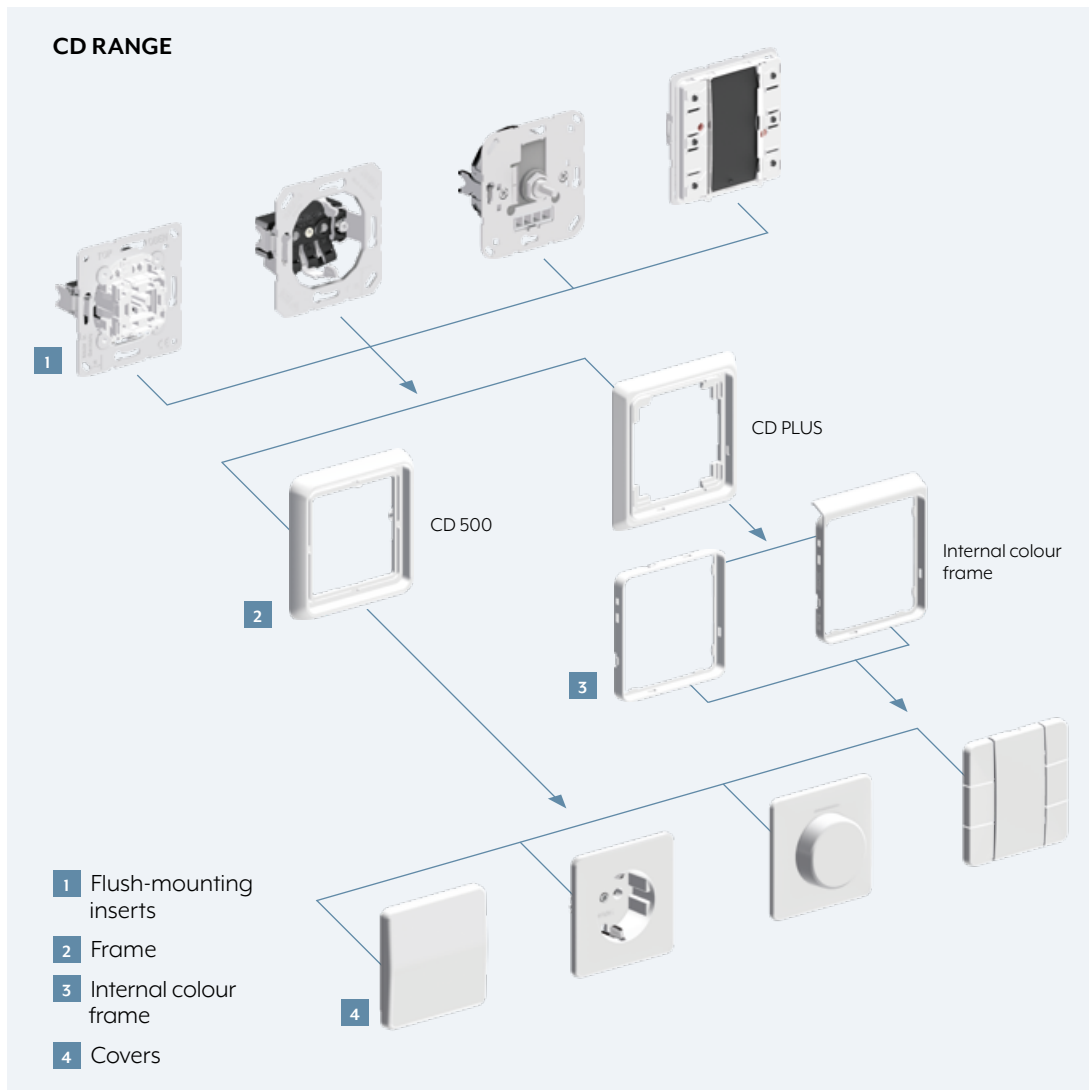
CD 500 in platinum



CD PLUS in black / stainless steel

The CD range is harmoniously matched in form, colour and function. The soft lines are underlined by the slight angularity of the rocker. Available in various colours made of plastic and variants made of metal. The inserts have the dimensions of 67 x 67 mm. The single to 5-gang frames can be fitted horizontally or vertically.

CD range – modular system









The wide product palette of the CD range meets all technical requirements in private and commercial construction. Lighting, blind and temperature control, door communication, multimedia control, eNet SMART HOME and KNX can all be implemented from a single source. The JUNG modular system combines the inserts with the respective appropriate cover and design frame to form a functional unit.






CD 500 is available not only in the classic duroplastic version but also in an unbreakable thermoplastic version. This means that the range also specifically meets the requirements of tenders for the public construction sector.

Colours and materials



Duroplastic (scratch-proof), glossy

ivory	similar to RAL 1013	
white	similar to RAL 9016	
brown	similar to RAL 8022	
grey	similar to RAL 7038	
light grey	similar to RAL 7035	
black	similar to RAL 9005	




Thermoplastic (breakproof) high-gloss

ivory	similar to RAL 1013	
white	similar to RAL 9016	
brown	similar to RAL 8022	
grey	similar to RAL 7038	
light grey	similar to RAL 7035	

Metal versions (anodised aluminium)

gold-bronze	
platinum	

Selected items are also available in other colours

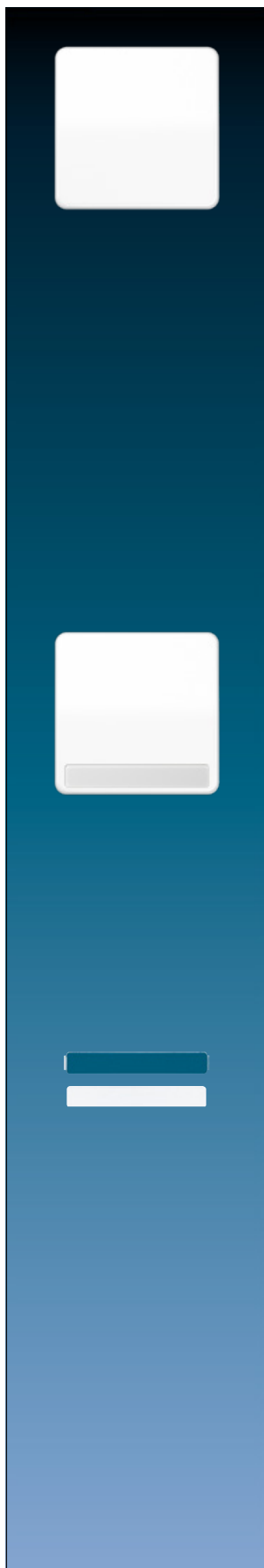
orange	similar to RAL 2004	
green	similar to RAL 6029	
red	similar to RAL 3003	

Covers	456
Sockets	464
LB Management	473
eNet	475
Temperature Management	479
SAT / TV	482
Data connectors	484
Telephone	486

The following products are available in the CD range

Multimedia connection systems	47
USB charger	60
Smart Radio DAB+	76
Hospital installations	94
Hotel installations	104
Door communication	144
F 50	660
F 40	670
F 10	680

CD range



Ref.-no.

1-gang rocker

for switch insert ref.-no.: 501 U, 502 U, 503 U, 506 U, 507 U, 501-20 U, 506-20 U, 507-20 U

for push switch insert ref.-no.: 502 TU, 506 TU, 507 TU

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U

for multi switch insert ref.-no.: 531-41 U (not metal versions)

Duroplastic (scratch-proof) glossy

ivory	IP P	CD 590
white	IP P	CD 590 WW
light grey	IP P	CD 590 LG
brown	IP	CD 590 BR
grey	IP	CD 590 GR
black	IP	CD 590 SW

metal versions (anodized aluminium)

gold-bronze	L	CD 590 GB
platinum	L	CD 590 PT

Thermoplastic (breakproof) high-gloss

ivory	IP L	CD 590 BF
white	IP L	CD 590 BF WW
brown	IP	CD 590 BF BR
grey	IP L	CD 590 BF GR
light grey	IP L	CD 590 BF LG

1-gang rocker with inscription field 9 x 58 mm

for switch insert ref.-no.: 501 U, 502 U, 503 U, 506 U, 507 U, 501-20 U, 506-20 U, 507-20 U

for push switch insert ref.-no.: 502 TU, 506 TU, 507 TU

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U

for multi switch insert ref.-no.: 531-41 U

Duroplastic (scratch-proof) glossy

ivory	IP P	CD 590 NA
white	IP P	CD 590 NA WW
light grey	IP P	CD 590 NA LG
brown	IP	CD 590 NA BR
grey	IP	CD 590 NA GR
black	IP	CD 590 NA SW

Thermoplastic (breakproof) high-gloss

ivory	IP L	CD 590 NABF
white	IP L	CD 590 NABF WW

Transparent cover with paper inlay

for inscription field 9 x 58 mm

(Spare part)

paper inlay white	CD 90 NA
-------------------	----------

Ref.-no.

1-gang rocker with lens

for switch insert with indicator light

ref.-no.: 502 KOU, 503 KOU, 506 KOU, 501-20 KOU, 502-20 KOU, 506-20 KOU

for push switch insert with indicator light ref.-no.: 502 KOTU, 506 KOTU

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

Duroplastic (scratch-proof) glossy

ivory	IP P	CD 590 KO5
white	IP P	CD 590 KO5 WW
brown	IP	CD 590 KO5 BR
grey	IP	CD 590 KO5 GR
light grey	IP P	CD 590 KO5 LG
black	IP	CD 590 KO5 SW

metal versions (anodized aluminium)

gold-bronze	L	CD 590 KO5 GB
platinum	L	CD 590 KO5 PT

1-gang rocker with lens and inscription field 9 x 58 mm

for switch insert with indicator light

ref.-no.: 502 KOU, 503 KOU, 506 KOU, 501-20 KOU, 502-20 KOU, 506-20 KOU

for push switch insert with indicator light ref.-no.: 502 KOTU, 506 KOTU

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

Duroplastic (scratch-proof) glossy

ivory	IP P	CD 590 NAKO5
white	IP P	CD 590 NAKO5 WW
brown	IP	CD 590 NAKO5 BR
grey	IP	CD 590 NAKO5 GR
light grey	IP P	CD 590 NAKO5 LG
black	IP	CD 590 NAKO5 SW

Transparent cover with paper inlay

for inscription field 9 x 58 mm

(Spare part)

paper inlay white		CD 90 NA
-------------------	--	----------

1-gang rocker with big lens

for switch insert with indicator light

ref.-no.: 502 KOU, 503 KOU, 506 KOU, 501-20 KOU, 502-20 KOU, 506-20 KOU

for push switch insert with indicator light ref.-no.: 502 KOTU, 506 KOTU

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

with orange insert (ref.-no.: 33 O), can be replaced with symbols ref.-no. 33..

Duroplastic (scratch-proof) glossy

ivory	IP P	CD 590 KO
white	IP P	CD 590 KO WW
brown	IP	CD 590 KO BR
grey	IP	CD 590 KO GR
light grey	IP P	CD 590 KO LG
black	IP	CD 590 KO SW

metal versions (anodized aluminium)

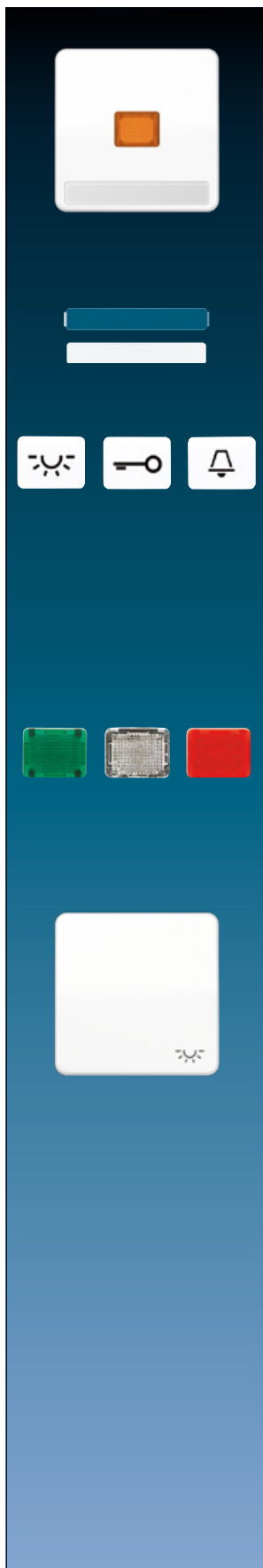
gold-bronze	L	CD 590 KO GB
platinum	L	CD 590 KO PT

Thermoplastic (breakproof) high-gloss

ivory	IP	L	CD 590 KOBF
white	IP	L	CD 590 KOBF WW
brown	IP		CD 590 KOBF BR
grey	IP	L	CD 590 KOBF GR
light grey	IP	L	CD 590 KOBF LG



CD range



Ref.-no.

1-gang rocker with big lens and inscription field 9 x 58 mm

for switch insert with indicator light

ref.-no.: 502 KOU, 503 KOU, 506 KOU, 501-20 KOU, 502-20 KOU, 506-20 KOU

for push switch insert with indicator light ref.-no.: 502 KOTU, 506 KOTU

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

with orange insert (ref.-no.: 33 O), can be replaced with symbols ref.-no. 33..

Duroplastic (scratch-proof) glossy

ivory	IP P	CD 590 NAKO
white	IP P	CD 590 NAKO WW

Transparent cover with paper inlay

for inscription field 9 x 58 mm

(Spare part)

paper inlay white	CD 90 NA
-------------------	----------

Insert with symbol, opaque

for rockers CD 590 KO .. and CD 590 NAKO ..

ivory

symbol light	33 L
symbol bell	33 K
symbol door	33 T

white

symbol light	33 L WW
symbol bell	33 K WW
symbol door	33 T WW

Insert without symbol, translucent

for rockers CD 590 KO .. and CD 590 NAKO ..

green	33 GN
transparent	33 KLAR
orange	33 O
red	33 NR

1-gang rocker with symbol "light"

for switch insert ref.-no.: 501 U, 502 U, 503 U, 506 U, 507 U, 501-20 U, 506-20 U, 507-20 U

for push switch insert ref.-no.: 502 TU, 506 TU, 507 TU

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U

Duroplastic (scratch-proof) glossy

ivory	IP	CD 590 L
white	IP	CD 590 L WW
light grey	IP	CD 590 L LG
brown	IP	CD 590 L BR
grey	IP	CD 590 L GR
black	IP	CD 590 L SW

metal versions (anodized aluminium)

gold-bronze	CD 590 L GB
platinum	CD 590 L PT

Thermoplastic (breakproof) high-gloss

ivory	IP	CD 590 BFL
white	IP	CD 590 BFL WW

Ref.-no.

1-gang rocker with symbol "light", with lens







for switch insert with indicator light

ref.-no.: 502 KOU, 503 KOU, 506 KOU, 501-20 KOU, 502-20 KOU, 506-20 KOU

for push switch insert with indicator light ref.-no.: 502 KOTU, 506 KOTU

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

Duroplastic (scratch-proof) glossy

ivory		CD 590 KO5L
white		CD 590 KO5L WW
brown		CD 590 KO5L BR
grey		CD 590 KO5L GR
light grey		CD 590 KO5L LG
black		CD 590 KO5L SW




metal versions (anodized aluminium)

gold-bronze		CD 590 KO5L GB
platinum		CD 590 KO5L PT

1-gang rocker with symbol "bell"

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U

Duroplastic (scratch-proof) glossy

ivory		CD 590 K
white		CD 590 K WW
light grey		CD 590 K LG
brown		CD 590 K BR
grey		CD 590 K GR
black		CD 590 K SW

metal versions (anodized aluminium)

gold-bronze		CD 590 K GB
platinum		CD 590 K PT






Thermoplastic (breakproof) high-gloss

ivory		CD 590 BFK
white		CD 590 BFK WW

1-gang rocker with symbol "bell", with lens

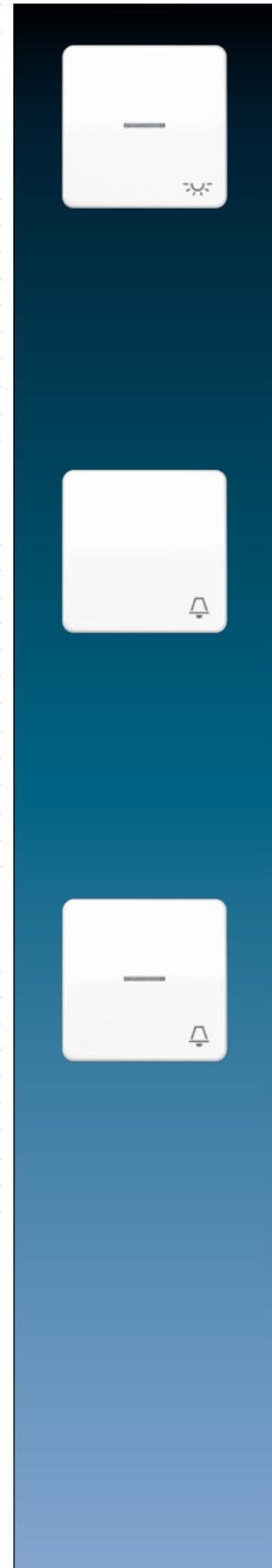
for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

Duroplastic (scratch-proof) glossy

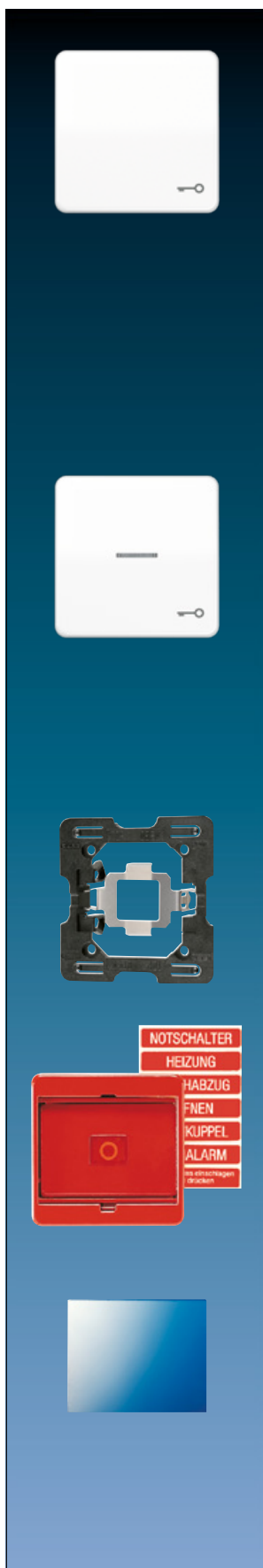
ivory		CD 590 KO5K
white		CD 590 KO5K WW
brown		CD 590 KO5K BR
grey		CD 590 KO5K GR
light grey		CD 590 KO5K LG
black		CD 590 KO5K SW

metal versions (anodized aluminium)

gold-bronze		CD 590 KO5K GB
platinum		CD 590 KO5K PT



CD range



Ref.-no.

1-gang rocker with symbol "door"

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U

Duroplastic (scratch-proof) glossy

ivory	IP	CD 590 T
white	IP	CD 590 T WW
light grey	IP	CD 590 T LG
black	IP	CD 590 T SW
brown	IP	CD 590 T BR
grey	IP	CD 590 T GR

metal versions (anodized aluminium)

gold-bronze	CD 590 T GB
platinum	CD 590 T PT

Thermoplastic (breakproof) high-gloss

ivory	IP	CD 590 BFT
white	IP	CD 590 BFT WW

1-gang rocker with symbol "door", with lens

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

Duroplastic (scratch-proof) glossy

ivory	IP	CD 590 KO5T
white	IP	CD 590 KO5T WW
brown	IP	CD 590 KO5T BR
grey	IP	CD 590 KO5T GR
light grey	IP	CD 590 KO5T LG
black	IP	CD 590 KO5T SW

metal versions (anodized aluminium)

gold-bronze	CD 590 KO5T GB
platinum	CD 590 KO5T PT

Holder plate

for frame fixing and 1-gang rocker bearing
(Spare part)

black	CD 90 HP
-------	----------

for metal versions

black	CD 90 MHP
-------	-----------

1-gang rocker with glass plate

with rocker and red lens

for all 1-gang switch/push-button inserts (except push switch insert)

Thermoplastic (breakproof) high-gloss

red	similar RAL 3000	561 GL RT
blue	similar RAL 5015	561 GL BL
yellow	similar RAL 1004	561 GL GE

With foils "Notschalter, Heizung, Rauchabzug, Lichtkuppel öffnen, Hausalarm, Bei Feuer Glas einschlagen – Knopf drücken"

Glass plate

(Spare part)

64 x 53 x 1 mm (W x H x D)	60 GL
----------------------------	-------

Ref.-no.

Frame, 1-gang

81 x 81 x 10 mm

Thermoplastic (breakproof) high-gloss

red	similar RAL 3000	CD 581 GL RT
blue	similar RAL 5015	CD 581 GL BL
yellow	similar RAL 1004	CD 581 GL GE

Pull cord switch 10 AX / 250 V ~

with integrated frame

for wall and ceiling installation

Screw terminals for wires up to 2.5 mm²

with 50 mm pull cord

Duroplastic (scratch-proof) glossy

ivory	P	5506 ZU
white	P	5506 ZU WW

Other pull cord devices can be realised with pull cord insert 34 and 1-gang rocker with big lens A 590 KO .. or pull cord insert 34 KO5 and 1-gang rocker with lens A 590 KO5 ..

Pull cord switch 10 AX / 250 V ~

for wall and ceiling installation

Screw terminals for wires up to 2.5 mm²

with 50 mm pull cord

Duroplastic (scratch-proof) glossy

ivory	P	Z 506 NUZV
white	P	Z 506 NUZ VWW

Other pull cord devices can be realised with pull cord insert 34 and 1-gang rocker with big lens A 590 KO .. or pull cord insert 34 KO5 and 1-gang rocker with lens A 590 KO5 ..

2-gang rocker

for switch insert ref.-no.: 505 U, 509 U

for push switch insert ref.-no.: 505 TU, 509 TU (not thermoplastic version)

for push-button insert ref.-no.: 535 U, 539 U

for multi switch insert ref.-no.: 532-4 U (not metal versions)

Duroplastic (scratch-proof) glossy

ivory	IP	P	CD 595
white	IP	P	CD 595 WW
brown	IP		CD 595 BR
grey	IP		CD 595 GR
light grey	IP	P	CD 595 LG
black	IP		CD 595 SW

metal versions (anodized aluminium)

gold-bronze	L	CD 595 GB
platinum	L	CD 595 PT

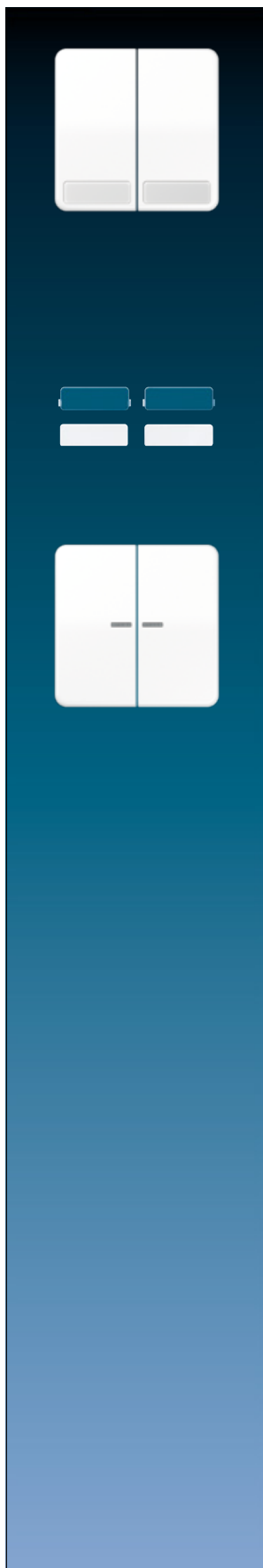
Thermoplastic (breakproof) high-gloss

ivory	IP	L	CD 595 BF
white	IP	L	CD 595 BF WW
brown	IP		CD 595 BF BR
grey	IP	L	CD 595 BF GR
light grey	IP	L	CD 595 BF LG

For illuminated inserts use rocker with lens ref.-no.: ..KO...



CD range



Ref.-no.

2-gang rocker with inscription field 9 x 27 mm

for switch insert ref.-no.: 505 U, 509 U
 for push switch insert ref.-no.: 505 TU, 509 TU
 for push-button insert ref.-no.: 535 U, 539 U
 for multi switch insert ref.-no.: 532-4 U

Duroplastic (scratch-proof) glossy

ivory	IP P	CD 595 NA
white	IP P	CD 595 NA WW
brown	IP	CD 595 NA BR
grey	IP	CD 595 NA GR
light grey	IP P	CD 595 NA LG
black	IP	CD 595 NA SW

Transparent cover with paper inlay

for inscription field 9 x 27 mm
 (Spare part)

A set of two covers

paper inlay white	CD 95 NA
-------------------	----------

2-gang rocker with lens

for switch insert ref.-no.: 505 U 5
 for switch insert with indicator light ref.-no.: 505 KOU 5
 for push-button insert ref.-no.: 535 U 5

Duroplastic (scratch-proof) glossy

ivory	IP P	CD 595 KO5
white	IP P	CD 595 KO5 WW
brown	IP	CD 595 KO5 BR
grey	IP	CD 595 KO5 GR
light grey	IP P	CD 595 KO5 LG
black	IP	CD 595 KO5 SW

metal versions (anodized aluminium)

gold-bronze	L	CD 595 KO5 GB
platinum	L	CD 595 KO5 PT

Thermoplastic (breakproof) high-gloss

ivory	IP L	CD 595 KO5BF
white	IP L	CD 595 KO5BF WW
brown	IP	CD 595 KO5BF BR
grey	IP L	CD 595 KO5BF GR
light grey	IP L	CD 595 KO5BF LG

Ref.-no.

2-gang rocker with arrow symbols

for blind switch insert ref.-no.: 509 VU

for blind push-button insert ref.-no.: 539 VU

Duroplastic (scratch-proof) glossy

ivory	IP	CD 595 P
white	IP	CD 595 P WW
brown	IP	CD 595 P BR
grey	IP	CD 595 P GR
light grey	IP	CD 595 P LG
black	IP	CD 595 P SW

metal versions (anodized aluminium)

gold-bronze	CD 595 P GB
platinum	CD 595 P PT

Thermoplastic (breakproof) high-gloss

ivory	IP	CD 595 PBF
white	IP	CD 595 PBF WW
brown	IP	CD 595 PBF BR
grey	IP	CD 595 PBF GR
light grey	IP	CD 595 PBF LG

Holder plate

for frame fixing and 2-gang rocker bearing

(Spare part)

black	CD 95 HP
-------	----------

for metal versions

black	CD 95 MHP
-------	-----------

Centre plate

for key switch inserts ref.-no.: 104.28, 134.18, 134.28, 133.18, 138.18, 106.28

for key switch inserts IP 44 ref.-no.: CD 104.18 WU, CD 134.18 WU, CD 133.18 WU, CD 106.18 WU

Thermoplastic (breakproof) high-gloss

ivory	IP	L	528
white	IP	L	CD 528 WW
brown	IP	L	CD 528 BR
grey	IP	L	CD 528 GR
light grey	IP	L	CD 528 LG
black	IP	L	CD 528 SW

metal versions (anodized aluminium)

gold-bronze	CD 528 GB
platinum	CD 528 PT

One escutcheon plate with symbols and one without symbols included in delivery.

Height of escutcheon plate: 11 mm

Centre plate

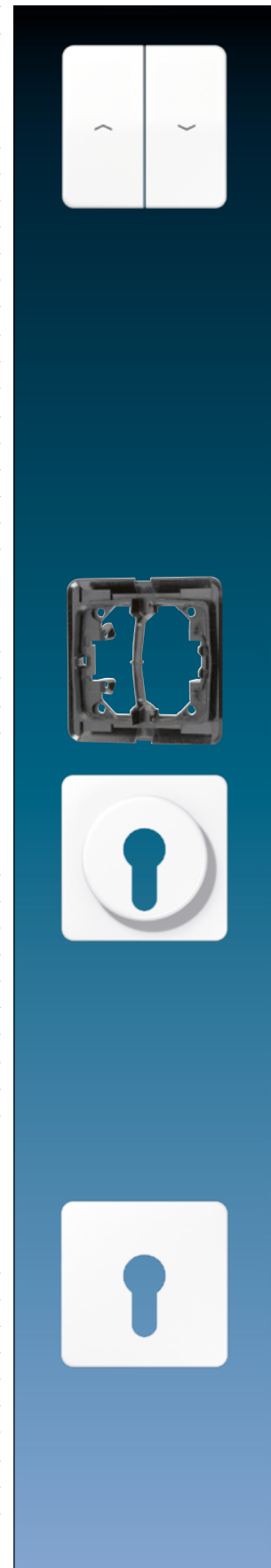
for key switch inserts ref.-no.: 104.15, 134.15, 133.15, 106.15

Thermoplastic (breakproof) high-gloss

ivory	L	525
white	L	CD 525 WW
brown	L	CD 525 BR
grey	L	CD 525 GR
light grey	L	CD 525 LG
black	L	CD 525 SW

metal versions (anodized aluminium)

gold-bronze	L	CD 525 GB
platinum	L	CD 525 PT



CD range



Ref.-no.

Centre plate with knob

for rotary switch insert ref.-no.: 1101-4, 1101-20
for timer switch insert ref.-no.: 11015, 11120-20
for rotary blind switch insert ref.-no.: 1234.10, 1234.20

Duroplastic (scratch-proof) glossy

ivory	IP P	CD 1541
white	IP P	CD 1541 WW
brown	IP	CD 1541 BR
grey	IP	CD 1541 GR
light grey	IP P	CD 1541 LG
black	IP	CD 1541 SW

metal versions (anodized aluminium)

gold-bronze	L	CD 1541 GB
platinum	L	CD 1541 PT

also for volume control WHD type: LST..JU UP and LR..JU UP
and for program selection WHD type: PRO 3 JU..

SCHUKO® socket 16 A / 250 V ~

screwless terminals for wires up to 2.5 mm²
without claws: ref.-no. with additional "N", e.g.: ..1520 N..
With screw terminals: ref.-no. ..1521..

Supporting frame, claws and claw screws are integrated into the earth protection.

Duroplastic (scratch-proof) glossy

ivory	P	CD 1520
white	P	CD 1520 WW
brown		CD 1520 BR
grey		CD 1520 GR
light grey	P	CD 1520 LG
black		CD 1520 SW

metal versions (anodized aluminium)

gold-bronze	L	CD 1520 GB
platinum	L	CD 1520 PT

Thermoplastic (breakproof) high-gloss

ivory	L	CD 1520 BF
white	L	CD 1520 BF WW
brown		CD 1520 BF BR
grey	L	CD 1520 BF GR
green		CD 1520 BF GN
light grey	L	CD 1520 BF LG
orange		CD 1520 BF O

Ref.-no.

SCHUKO® socket 16 A / 250 V ~

Screw terminals for wires up to 2.5 mm²

without claws: ref.-no. with additional "N", e.g.: ..1521 N..

Supporting frame, claws and claw screws are integrated into the earth protection.

Duroplastic (scratch-proof) glossy

ivory	P	CD 1521
white	P	CD 1521 WW
brown		CD 1521 BR
grey		CD 1521 GR
light grey	P	CD 1521 LG
black		CD 1521 SW

metal versions (anodized aluminium)

gold-bronze	L	CD 1521 GB
platinum	L	CD 1521 PT

Thermoplastic (breakproof) high-gloss

ivory	L	CD 1521 BF
white	L	CD 1521 BF WW
brown		CD 1521 BF BR
green		CD 1521 BF GN
grey	L	CD 1521 BF GR
light grey	L	CD 1521 BF LG

SCHUKO® socket 16 A / 250 V ~

with enhanced contact protection (shutter)

screwless terminals for wires up to 2.5 mm²

without claws: ref.-no. with additional "N", e.g.: ..1520 N..

With screw terminals: ref.-no. ..1521..

Supporting frame, claws and claw screws are integrated into the earth protection.

Duroplastic (scratch-proof) glossy

ivory	P	CD 1520 KI
white	P	CD 1520 KI WW

metal versions (anodized aluminium)

gold-bronze	L	CD 1520 KI GB
platinum	L	CD 1520 KI PT

Thermoplastic (breakproof) high-gloss

ivory	L	CD 1520 BFKI
white	L	CD 1520 BFKI WW
brown		CD 1520 BFKI BR
grey	L	CD 1520 BFKI GR
green		CD 1520 BFKI GN
light grey	L	CD 1520 BFKI LG
orange		CD 1520 BFKI O
red		CD 1520 BFKI RT
black	L	CD 1520 BFKI SW



CD range



Ref.-no.

SCHUKO® socket 16 A / 250 V ~ with enhanced contact protection (shutter)

Screw terminals for wires up to 2.5 mm²

without claws: ref.-no. with additional "N", e.g.: ..1521 N..

Supporting frame, claws and claw screws are integrated into the earth protection.

Duroplastic (scratch-proof) glossy

ivory	P	CD 1521 KI
white	P	CD 1521 KI WW
brown		CD 1521 KI BR
grey		CD 1521 KI GR
light grey	P	CD 1521 KI LG
black		CD 1521 KI SW

metal versions (anodized aluminium)

gold-bronze	L	CD 1521 KI GB
platinum	L	CD 1521 KI PT

Thermoplastic (breakproof) high-gloss

ivory	L	CD 1521 BFKI
white	L	CD 1521 BFKI WW
brown		CD 1521 BFKI BR
green		CD 1521 BFKI GN
grey	L	CD 1521 BFKI GR
light grey	L	CD 1521 BFKI LG
red		CD 1521 BFKI RT

SCHUKO® socket 16 A / 250 V ~ with inscription field 6 x 37 mm

screwless terminals for wires up to 2.5 mm²

without claws: ref.-no. with additional "N", e.g.: ..1520 N..

With screw terminals: ref.-no. ..1521..

Supporting frame, claws and claw screws are integrated into the earth protection.

Duroplastic (scratch-proof) glossy

ivory	P	CD 1520 NA
white	P	CD 1520 NA WW
brown		CD 1520 NA BR
grey		CD 1520 NA GR
light grey	P	CD 1520 NA LG
black		CD 1520 NA SW

Thermoplastic (breakproof) high-gloss

ivory	L	CD 1520 BFNA
white	L	CD 1520 BFNA WW
brown		CD 1520 BFNA BR
grey	L	CD 1520 BFNA GR
green		CD 1520 BFNA GN
light grey	L	CD 1520 BFNA LG
orange		CD 1520 BFNA O

SCHUKO® socket 16 A / 250 V ~ with inscription field 6 x 37 mm

Screw terminals for wires up to 2.5 mm²

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

ivory	L	CD 1521 BFNA
white	L	CD 1521 BFNA WW
brown		CD 1521 BFNA BR
green		CD 1521 BFNA GN
grey	L	CD 1521 BFNA GR
light grey	L	CD 1521 BFNA LG






Ref.-no.

SCHUKO® socket 16 A / 250 V ~
with enhanced contact protection (shutter)
with inscription field 6 x 37 mm

screwless terminals for wires up to 2.5 mm²
 without claws: ref.-no. with additional "N", e.g.: ..1520 N..
 With screw terminals: ref.-no. ..1521..

Supporting frame, claws and claw screws are integrated into the earth protection.



Thermoplastic (breakproof) high-gloss

ivory		CD 1520 BFKINA
white		CD 1520 BFKINA WW
brown		CD 1520 BFKINA BR
grey		CD 1520 BFKINA GR
green		CD 1520 BFKINA GN
light grey		CD 1520 BFKINA LG
orange		CD 1520 BFKINA O
red		CD 1520 BFKINA RT
black		CD 1520 BFKINA SW

SCHUKO® socket 45°, 16 A / 250 V ~

screwless terminals for wires up to 2.5 mm²
 especially suitable for vertical combination of several outlets
 without claws: ref.-no. with additional "N", e.g.: ..520-45 N..

Duroplastic (scratch-proof) glossy

ivory		520-45
white		CD 520-45 WW

SCHUKO® socket 16 A / 250 V ~

with surge voltage protection
with inscription field 6 x 37 mm

Screw terminals for wires up to 2.5 mm²
 without claws: ref.-no. with additional "N", e.g.: ..521 N..

Duroplastic (scratch-proof) glossy



ivory		521 ZNAUF
white		CD 521 NAUF WW

SCHUKO® socket 16 A / 250 V ~

with pilot light (green LED) ref.-no.: 193-LED GN
with enhanced contact protection (shutter)
with inscription field 6 x 37 mm

screwless terminals for wires up to 2.5 mm²
 without claws: ref.-no. with additional "N", e.g.: ..1520 N..
 Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

ivory		CD 1520 BFNAKO
white		CD 1520 BFNAKO WW
green		CD 1520 BFNAKO GN
orange		CD 1520 BFNAKO O
red		CD 1520 BFNAKO RT

Spare pilot light exchangeable from the front without disconnecting the mains

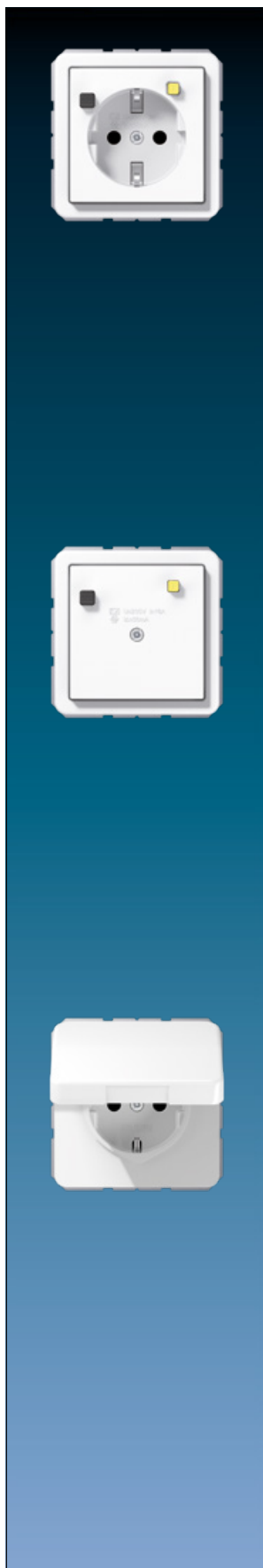
Transparent cover with paper inlay

for inscription field 6 x 37 mm
 (Spare part)

paper inlay white		CD 20 NA
-------------------	--	----------



CD range



Ref.-no.

SCHUKO® socket with RCD (residual current device) 16 A / 250 V ~
according to DIN EN 61008-1 (VDE 0664-10) and DIN EN 61008-2-1 (VDE 0664-11)

Rated residual current: 30 mA
with enhanced contact protection (shutter)

crewless terminals for wires up to 2.5 mm²
 not suitable for installation in surface caps

The SCHUKO socket with RCD is suitable to replace sockets in older installations.

Sockets that are connected to the RCD-protected output terminals (L' N') are likewise RCD-protected.

The electrical installation up to the SCHUKO® socket with RCD is not protected. The socket can also be switched on and off manually, using the built-in switch.

Thermoplastic (breakproof) high-gloss

ivory	CD 5520.30
white	CD 5520.30 WW

Technical data

Rated voltage:	AC 230 V ~, 50/60 Hz
Rated current:	16 A
Rated residual current:	30 mA
Ambient temperature:	-25 ... +40 °C

RCD (residual current device) 16 A / 250 V ~
according to DIN EN 61008-1 (VDE 0664-10) and DIN EN 61008-2-1 (VDE 0664-11)

Rated residual current: 30 mA

crewless terminals for wires up to 2.5 mm²
 not suitable for installation in surface caps

suitable for cables with 2 or 3 conductors

Installation into flush box with a depth of 60 mm is recommended. Protection device with voltage-independent function. The sockets connected to the output terminals are protected acc. to DIN VDE 0100-410.

The electrical installation up to the RCD is not protected!

Thermoplastic (breakproof) high-gloss

ivory	CD 5530 FIB
white	CD 5530 FIB WW

Technical data

Rated voltage:	AC 230 V ~, 50/60 Hz
Rated current:	16 A
Rated residual current:	30 mA
Ambient temperature:	-25 ... +40 °C

SCHUKO® socket 16 A / 250 V ~
with hinged lid (with spring)

screwless terminals for wires up to 2.5 mm²

without claws: ref.-no. with additional "N", e.g.: ..1520 N..

With screw terminals: ref.-no. ..1521..

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

ivory	IP	L	CD 1520 BFKL
white	IP	L	CD 1520 BFKL WW
brown	IP		CD 1520 BFKL BR
grey	IP	L	CD 1520 BFKL GR
green	IP		CD 1520 BFKL GN
light grey	IP	L	CD 1520 BFKL LG
orange	IP		CD 1520 BFKL O

Ref.-no.










**SCHUKO® socket 16 A / 250 V ~
with hinged lid (with spring)**

Screw terminals for wires up to 2.5 mm²

without claws: ref.-no. with additional "N", e.g.: ..1521 N..

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

ivory			CD 1521 BFKL
white			CD 1521 BFKL WW
brown			CD 1521 BFKL BR
green			CD 1521 BFKL GN
light grey			CD 1521 BFKL LG
orange			CD 1521 BFKL O

**SCHUKO® socket 16 A / 250 V ~
with hinged lid (with spring)**



with enhanced contact protection (shutter)

Screw terminals for wires up to 2.5 mm²

without claws: ref.-no. with additional "N", e.g.: ..1521 N..

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

ivory			CD 1521 BFKIKL
white			CD 1521 BFKIKL WW
brown			CD 1521 BFKIKL BR
grey			CD 1521 BFKIKL GR
green			CD 1521 BFKIKL GN
light grey			CD 1521 BFKIKL LG
orange			CD 1521 BFKIKL O

**SCHUKO® socket 16 A / 250 V ~
with hinged lid (with spring)**

with inscription field 9 x 58 mm

with enhanced contact protection (shutter)







screwless terminals for wires up to 2.5 mm²

without claws: ref.-no. with additional "N", e.g.: ..1520 N..

With screw terminals: ref.-no. ..1521..

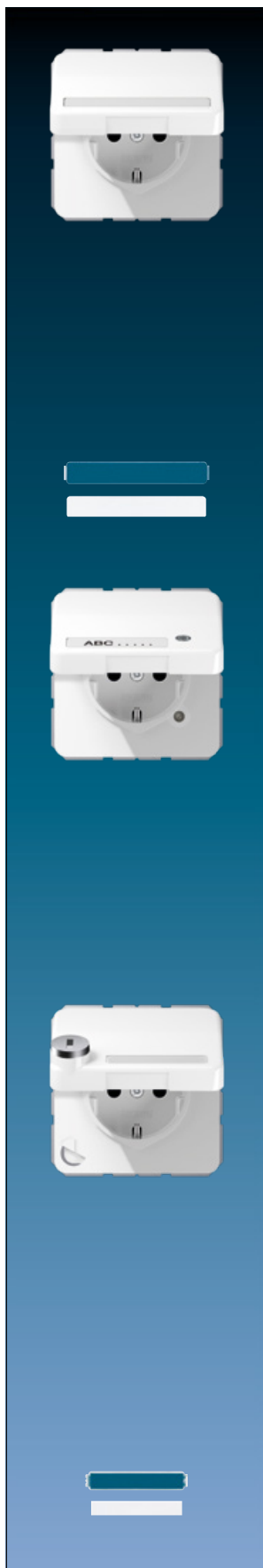
Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

ivory			CD 1520 BFNAKL
white			CD 1520 BFNAKL WW
brown			CD 1520 BFNAKL BR
grey			CD 1520 BFNAKL GR
green			CD 1520 BFNAKL GN
light grey			CD 1520 BFNAKL LG
orange			CD 1520 BFNAKL O



CD range



Ref.-no.

SCHUKO® socket 16 A / 250 V ~
with hinged lid (with spring)
with inscription field 9 x 58 mm
with enhanced contact protection (shutter)

Screw terminals for wires up to 2.5 mm²

without claws: ref.-no. with additional "N", e.g.: ..1521 N..

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

ivory	IP	L	CD 1521 BFAKL
white	IP	L	CD 1521 BFAKL WW
brown	IP		CD 1521 BFAKL BR
grey	IP	L	CD 1521 BFAKL GR
green	IP		CD 1521 BFAKL GN
light grey	IP	L	CD 1521 BFAKL LG
orange	IP		CD 1521 BFAKL O

Transparent cover with paper inlay

for inscription field 9 x 58 mm

(Spare part)

paper inlay white

CD 90 NA

SCHUKO® socket 16 A / 250 V ~
with hinged lid (with spring)
with inscription field 9 x 39 mm
with pilot light (green LED) ref.-no.: 193-LED GN
with enhanced contact protection (shutter)

screwless terminals for wires up to 2.5 mm²

without claws: ref.-no. with additional "N", e.g.: ..1520 N..

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

ivory	IP	L	CD 1520 NAKLKO
white	IP	L	CD 1520 NAKLKO WW
green	IP		CD 1520 NAKLKO GN
orange	IP		CD 1520 NAKLKO O
red	IP		CD 1520 NAKLKO RT

Spare pilot light exchangeable from the front without disconnecting the mains

SCHUKO® socket 16 A / 250 V ~
with hinged lid (with spring)
with inscription field 9 x 39 mm
with safety lock (24 different locks)
with enhanced contact protection (shutter)

screwless terminals for wires up to 2.5 mm²

without claws: ref.-no. with additional "N", e.g.: ..1520 N..

With screw terminals: ref.-no. ..1521..

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

ivory	IP	L	CD 1520 NAKLSL
white	IP	L	CD 1520 NAKLSL WW
brown	IP		CD 1520 NAKLSL BR
grey	IP	L	CD 1520 NAKLSL GR
green	IP		CD 1520 NAKLSL GN
light grey	IP	L	CD 1520 NAKLSL LG
orange	IP		CD 1520 NAKLSL O

Transparent cover with paper inlay

for inscription field 9 x 39 mm

(Spare part)

paper inlay white

LS 90 NA

Ref.-no.

Socket, 2-pole without earth 16 A / 250 V ~

Screw terminals for wires up to 2.5 mm²

screw fixing only, without claws

Duroplastic (scratch-proof) glossy

ivory	P	511 NUZV
white	P	CD 511 N WW
brown		CD 511 N BR
grey		CD 511 N GR
light grey	P	CD 511 N LG
black		CD 511 N SW

metal versions (anodized aluminium)

gold-bronze	L	CD 511 N GB
platinum	L	CD 511 N PT

Socket insert, French/Belgian system

2-pole + male earth pin, 16 A / 250 V ~

Supporting frame, claws and claw screws are integrated into the earth protection.

with claws

with screwless terminals	1520 F EINS
with screw terminals	1521 F EINS

Socket insert, French/Belgian system

2-pole + male earth pin, 16 A / 250 V ~

Supporting frame is integrated into the earth protection.

without claws

with screwless terminals	1520 NF EINS
with screw terminals	1521 NF EINS

Centre plate

for socket insert French/Belgian system, ref.-no.: 1520 ..F EINS, 1521 ..F EINS

with enhanced contact protection (shutter)

Duroplastic (scratch-proof) glossy

ivory	P	CD 1521 FKI PL-1
white	P	CD 1521 FKI WW PL-1
brown		CD 1521 FKI BR PL-1
grey		CD 1521 FKI GR PL-1
light grey	P	CD 1521 FKI LG PL-1
black		CD 1521 FKI SW PL-1

metal versions (anodized aluminium)

gold-bronze		CD 1521 FKI GB PL-1
platinum		CD 1521 FKI PT PL-1

Socket US NEMA system

15 A, 125 V ~, 5-15R, 2-pole + earth

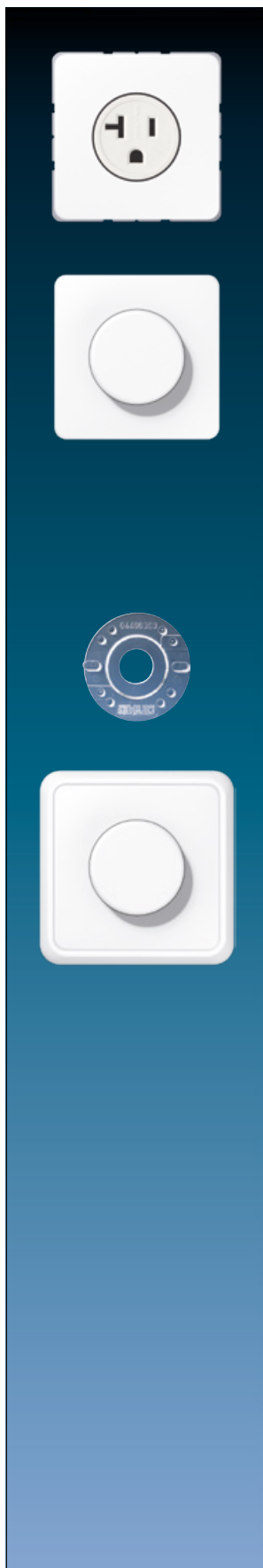
Screw terminals for wires up to 4 mm² acc. to US-NEMA

Thermoplastic (breakproof) high-gloss

ivory	NaV	CD 521-15
white	NaV	CD 521-15 WW



CD range



Ref.-no.

Socket US NEMA system

20 A, 125 V ~, 5-20R, 2-pole + earth

Screw terminals for wires up to 4 mm² acc. to US-NEMA

Thermoplastic (breakproof) high-gloss

ivory	NaV	CD 521-20
white	NaV	CD 521-20 WW

Centre plate with knob

for rotary dimmer inserts ref.-no.: 1730 DD, 1731 DD, 211 GDE

for satellite dimmer insert ref.-no.: 1733 DNE

for electronic potentiometer 1 – 10 V ref.-no.: 240-10

for DALI rotary controllers ref.-no.: 1740 DSTE, 1741 DSTE

Duroplastic (scratch-proof) glossy

ivory	IP P	CD 1540
white	IP P	CD 1540 WW
brown	IP	CD 1540 BR
grey	IP	CD 1540 GR
light grey	IP P	CD 1540 LG
black	IP	CD 1540 SW

Sealing gasket

for covers for rotary dimmer inserts

IP **140 D**

To obtain protection level IP 44 the sealing gasket ref.-no.: 140 D has to be placed into the centre plate for rotary dimmer and IP 44 frame has to be used.

Rotary dimmer LED with rotary on/off

with cover and integrated frame

without satellite input

Duroplastic (scratch-proof) glossy

ivory	P	CD 5544.03 V
white	P	CD 5544.03 V WW

single device, not suitable for combinations

Technical data

Rated voltage:	AC 230 V ~
Mains frequency:	50 Hz
Stand-by power:	approx. 0.2 W
Power loss:	approx. 3.7 W
Ambient temperature:	-5 ... +45 °C
Connected load at 25 °C	
Incandescent lamps:	20 ... 200 W
HV halogen lamps:	20 ... 200 W
Dimmable HV LED lamps:	typical 3 ... 40 W
Ohmic and HV LED:	typical 3 ... 40 W
Reduction of load	
Surface mounting:	-5 %
for every 5 °C exceeded 35 °C:	-10 %
for installation into wooden or hollow walls:	-15 %
Fine-wire fuse:	T 800 mA H 250
Connection mode:	screw terminals
single wire:	1 x 0.5 ... 2.5 mm ²
stranded without ferrule:	1 x 0.5 ... 2.5 mm ²
stranded with ferrule:	1 x 0.5 ... 2.5 mm ²
2-way switch circuit:	not possible

Ref.-no.

Standard centre plate

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1720 NE, 1723 NE, 1708 IE

Duroplastic (scratch-proof) glossy

ivory	CD 1700
white	CD 1700 WW
brown	CD 1700 BR
grey	CD 1700 GR
light grey	CD 1700 LG
black	CD 1700 SW

metal colours (duroplastic lacquered)

gold-bronze	 CD 1700 GB
platinum	 CD 1700 PT

Standard centre plate "arrows"

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1720 NE, 1723 NE, 1708 IE

Duroplastic (scratch-proof) glossy

ivory	CD 1700 P
white	CD 1700 P WW
brown	CD 1700 P BR
grey	CD 1700 P GR
light grey	CD 1700 P LG
black	CD 1700 P SW

metal versions (anodized aluminium)

gold-bronze	CD 1700 P GB
platinum	CD 1700 P PT

Universal centre plate

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE

for LB Management inserts "light"

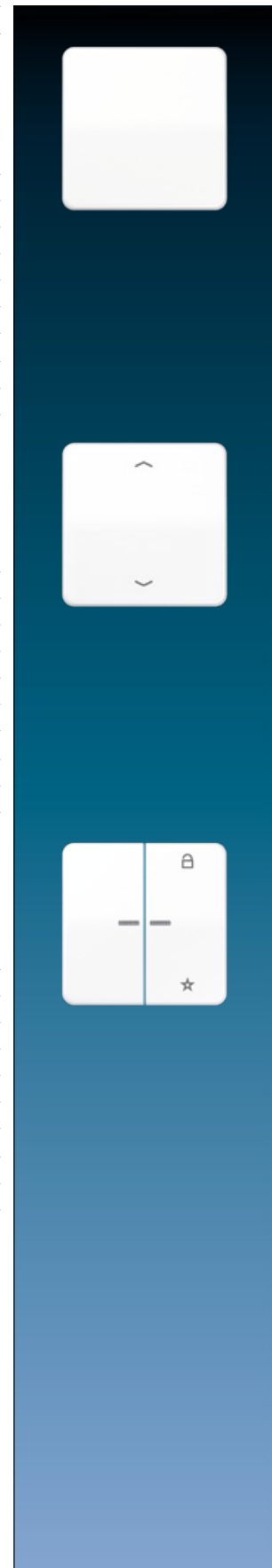
ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE

Duroplastic (scratch-proof) glossy

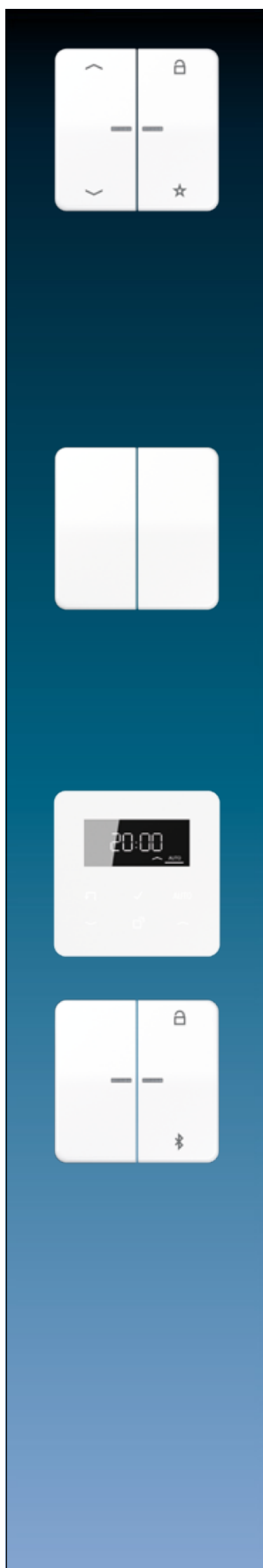
ivory	CD 1701
white	CD 1701 WW
brown	CD 1701 BR
grey	CD 1701 GR
light grey	CD 1701 LG
black	CD 1701 SW

metal colours (duroplastic lacquered)

gold-bronze	CD 1701 GB
platinum	CD 1701 PT



CD range



Ref.-no.

Universal centre plate "arrows"

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE

Duroplastic (scratch-proof) glossy

ivory	CD 1701 P
white	CD 1701 P WW
brown	CD 1701 P BR
grey	CD 1701 P GR
light grey	CD 1701 P LG
black	CD 1701 P SW

metal colours (duroplastic lacquered)

gold-bronze	CD 1701 P GB
platinum	CD 1701 P PT

Standard centre plate 2-gang

for LB Management inserts "light" ref.-no.: 1702 SE, 1712 DE, 1713 DSTE, 1723 NE

Duroplastic (scratch-proof) glossy

ivory	CD 1702
white	CD 1702 WW
brown	CD 1702 BR
grey	CD 1702 GR
light grey	CD 1702 LG
black	CD 1702 SW

metal colours (duroplastic lacquered)

gold-bronze	CD 1702 GB
platinum	CD 1702 PT

Standard timer with display

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE

white	CD 1750 D WW
black	CD 1750 D SW

Universal timer Bluetooth

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE

Duroplastic (scratch-proof) glossy

ivory	CD 1751 BT
white	CD 1751 BT WW
brown	CD 1751 BT BR
grey	CD 1751 BT GR
light grey	CD 1751 BT LG
black	CD 1751 BT SW

metal colours (duroplastic lacquered)

gold-bronze	CD 1751 BT GB
platinum	CD 1751 BT PT

Ref.-no.

Universal timer Bluetooth "arrows"

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE

Duroplastic (scratch-proof) glossy

ivory	CD 1751 PBT
white	CD 1751 PBT WW
brown	CD 1751 PBT BR
grey	CD 1751 PBT GR
light grey	CD 1751 PBT LG
black	CD 1751 PBT SW

metal colours (duroplastic lacquered)

gold-bronze	CD 1751 PBT GB
platinum	CD 1751 PBT PT

eNet Standard radio centre plate

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE

Duroplastic (scratch-proof) glossy

ivory	FM CD 1700
white	FM CD 1700 WW
brown	FM CD 1700 BR
grey	FM CD 1700 GR
light grey	FM CD 1700 LG
black	FM CD 1700 SW

metal colours (duroplastic lacquered)

gold-bronze	FM CD 1700 GB
platinum	FM CD 1700 PT

eNet Standard radio centre plate "arrows"

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE

for LB Management inserts "light"

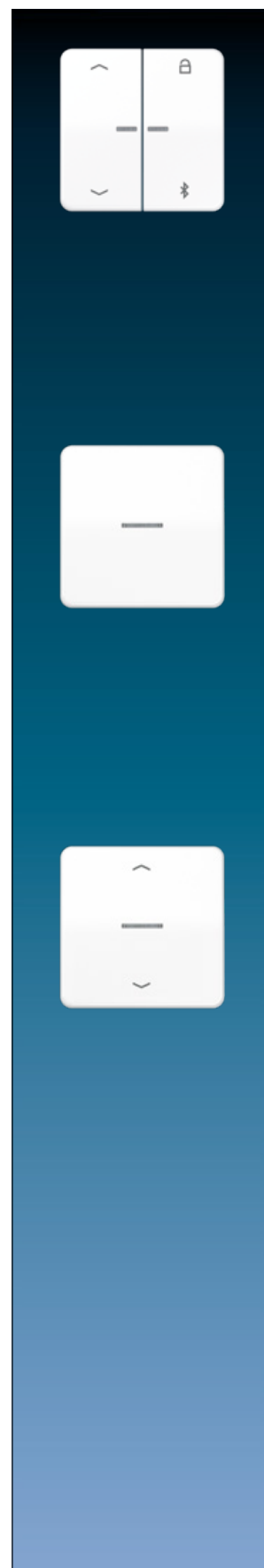
ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE

Duroplastic (scratch-proof) glossy

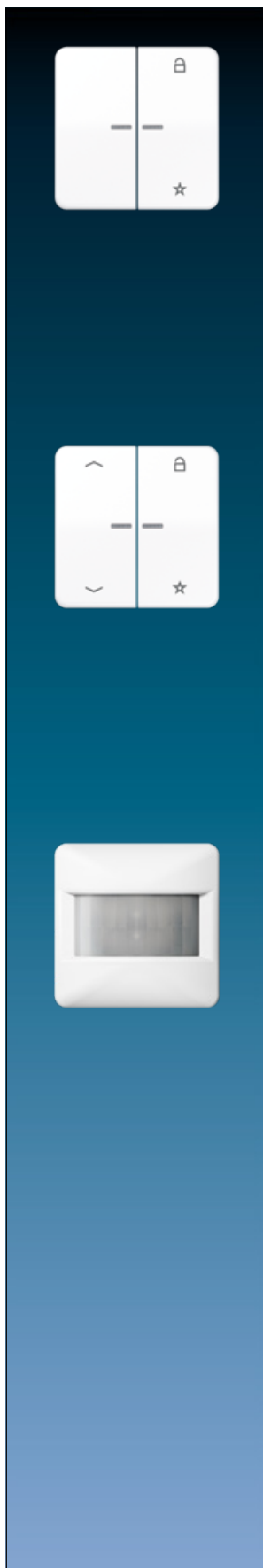
ivory	FM CD 1700 P
white	FM CD 1700 P WW
brown	FM CD 1700 P BR
grey	FM CD 1700 P GR
light grey	FM CD 1700 P LG
black	FM CD 1700 P SW

metal colours (duroplastic lacquered)

gold-bronze	FM CD 1700 P GB
platinum	FM CD 1700 P PT



CD range



Ref.-no.

eNet radio centre plate

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE

Duroplastic (scratch-proof) glossy

ivory	FM CD 1701
white	FM CD 1701 WW
brown	FM CD 1701 BR
grey	FM CD 1701 GR
light grey	FM CD 1701 LG
black	FM CD 1701 SW

metal colours (duroplastic lacquered)

gold-bronze	FM CD 1701 GB
platinum	FM CD 1701 PT

eNet radio centre plate "arrows"

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE

Duroplastic (scratch-proof) glossy

ivory	FM CD 1701 P
white	FM CD 1701 P WW
brown	FM CD 1701 P BR
grey	FM CD 1701 P GR
light grey	FM CD 1701 P LG
black	FM CD 1701 P SW

metal colours (duroplastic lacquered)

gold-bronze	FM CD 1701 P GB
platinum	FM CD 1701 P PT

Standard automatic switch 1.1 m

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

Thermoplastic (breakproof) high-gloss

ivory	CD 17180
white	CD 17180 WW
brown	CD 17180 BR
grey	CD 17180 GR
light grey	CD 17180 LG
black	CD 17180 SW

metal colours (thermoplastic lacquered)

gold-bronze	CD 17180 GB
platinum	CD 17180 PT

Ref.-no.

Standard automatic switch 1.1 m

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

IP 44 suitable only for indoor installation

Thermoplastic (breakproof) high-gloss

ivory	IP	CD 17180 WU
white	IP	CD 17180 WU WW
brown	IP	CD 17180 WU BR
grey	IP	CD 17180 WU GR
light grey	IP	CD 17180 WU LG
black	IP	CD 17180 WU SW

metal colours (thermoplastic lacquered)

gold-bronze	IP	CD 17180 WU GB
platinum	IP	CD 17180 WU PT

Standard automatic switch 2.2 m

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

IP 44 suitable only for indoor installation

Thermoplastic (breakproof) high-gloss

ivory	IP	CD 17280
white	IP	CD 17280 WW
grey	IP	CD 17280 GR
light grey	IP	CD 17280 LG
black	IP	CD 17280 SW

metal colours (thermoplastic lacquered)

gold-bronze	IP	CD 17280 GB
platinum	IP	CD 17280 PT

Universal automatic switch 1.1 m

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

Thermoplastic (breakproof) high-gloss

ivory	CD 17181
white	CD 17181 WW
brown	CD 17181 BR
grey	CD 17181 GR
light grey	CD 17181 LG
black	CD 17181 SW

metal colours (thermoplastic lacquered)

gold-bronze	CD 17181 GB
platinum	CD 17181 PT

Universal automatic switch 1.1 m

for LB Management inserts "light"

ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

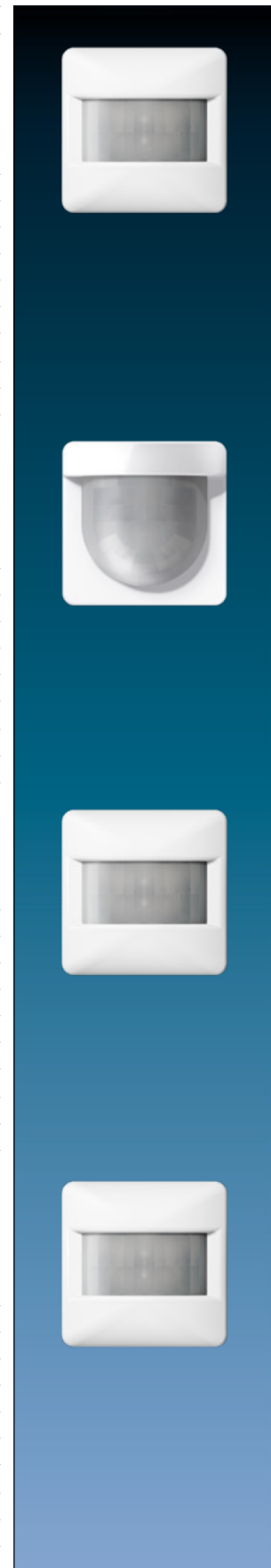
IP 44 suitable only for indoor installation

Thermoplastic (breakproof) high-gloss

ivory	IP	CD 17181 WU
white	IP	CD 17181 WU WW
brown	IP	CD 17181 WU BR
grey	IP	CD 17181 WU GR
light grey	IP	CD 17181 WU LG
black	IP	CD 17181 WU SW

metal colours (thermoplastic lacquered)

gold-bronze	IP	CD 17181 WU GB
platinum	IP	CD 17181 WU PT



CD range



Ref.-no.

Universal automatic switch 2.2 m

for LB Management inserts "light"

ef.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

IP 44 suitable for indoor and outdoor installation

Thermoplastic (breakproof) high-gloss

ivory	IP	CD 17281
white	IP	CD 17281 WW
grey	IP	CD 17281 GR
light grey	IP	CD 17281 LG
black	IP	CD 17281 SW

metal colours (thermoplastic lacquered)

gold-bronze	IP	CD 17281 GB
platinum	IP	CD 17281 PT

Sealing kit

for automatic switches 2.2 m of the CD and LS ranges

IP	AS CD 50 DS
----	-------------

To obtain protection level IP 44

Electronic timer, 230 V~, 1500 VA

with frame

The device is operated simply by pressing the button. After a previously set time delay the timer switches off automatically. The activated time delay can be stopped by pressing the button again.

1-pole switch contact, with status LED, satellite operation possible

Duroplastic (scratch-proof) glossy

time delay 1 – 60 min.

white	IP	CD 1060 ET WW
-------	----	---------------

Duroplastic (scratch-proof) glossy

time delay 1 – 8 hours

white	IP	CD 10.480 ET WW
-------	----	-----------------

Timer switch 16 AX / 250 V ~

Screw terminals for wires up to 4 mm²

screw fixing only, without claws

incl. 1-gang frame and scale disc

accuracy ± 10 %

Duroplastic (scratch-proof) glossy

white	2-pole, 1-way	max. 30 minutes	IP	CD 11030 WW
	1-pole, 2-way	max. 30 minutes	IP	CD 11030-20 WW
	2-pole, 1-way	max. 60 minutes	IP	CD 11060 WW
	2-pole, 1-way	max. 120 minutes	IP	CD 11120 WW
	1-pole, 2-way	max. 120 minutes	IP	CD 11120-20 WW
	2-pole, 1-way	max. 240 minutes	IP	CD 11240 WW
	2-pole, 1-way	max. 360 minutes	IP	CD 11360 WW
	2-pole, 1-way	max. 720 minutes	IP	CD 11720 WW

Ref.-no.

Timer switch with synchronised drive 16 AX 250 V ~

screw fixing only, without claws

Neutral conductor required

Thermoplastic (breakproof) high-gloss

ivory	CD 5024
white	CD 5024 WW

Product characteristics

- Min. switch ON or switch OFF time: 30 minutes
- Switching wheel (24 h) with 48 switching segments
- Simple programming by pulling switching segments
- Mode switch: permanently ON, Auto, permanently OFF

Technical data

Rated voltage:	AC 230 V ~, 50 Hz
Switching capacity:	16 (4) A / AC 250 V ~ (the rated current for motors is in brackets)
Ambient temperature:	-20 ... +50 °C

Awning control, AeroTec 04

Thermoplastic (breakproof) high-gloss

white	AT 04 WW
-------	----------

The AeroTec timer may be used to operate sun protection systems **only**.

Intermediate frame to install "AeroTec 04" in CD range

white	CD AT 581 Z WW
-------	----------------

Room thermostat (1-way contact)

1-pole NC contact 10 (4) A, AC 230 V ~, 50/60 Hz

Thermoplastic (breakproof) high-gloss

ivory	TR CD 231
white	TR CD 231 WW
brown	TR CD 231 BR
grey	TR CD 231 GR
light grey	TR CD 231 LG
black	TR CD 231 SW

metal versions (anodized aluminium)

gold-bronze	TR CD 231 GB
platinum	TR CD 231 PT

Room thermostat (1-way contact)

1-pole NC contact 10 (4) A, AC 24 V ~

Thermoplastic (breakproof) high-gloss

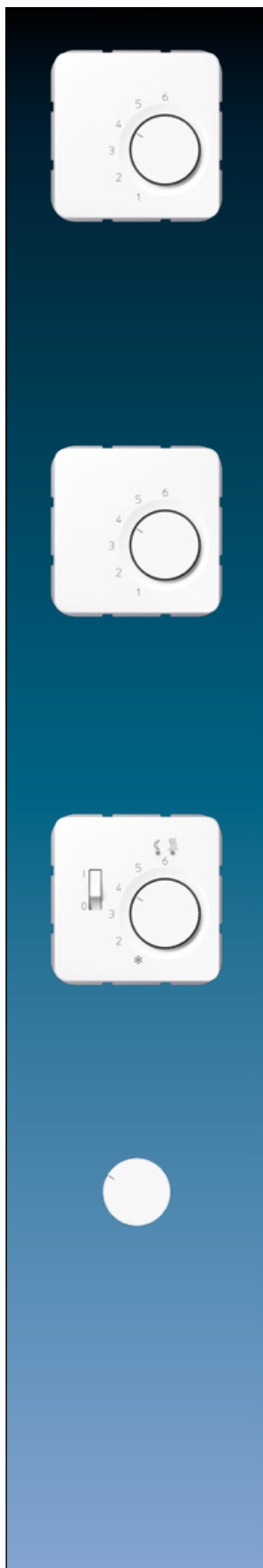
ivory	TR CD 241
white	TR CD 241 WW
brown	TR CD 241 BR
grey	TR CD 241 GR
light grey	TR CD 241 LG
black	TR CD 241 SW

metal versions (anodized aluminium)

gold-bronze	TR CD 241 GB
platinum	TR CD 241 PT



CD range



Ref.-no.

Room thermostat (2-way contact)

1-pole, 2-way, heating 10 (4) A, AC 230 V ~, 50/60 Hz

1-pole, 2-way, cooling 5 (2) A, AC 230 V ~, 50/60 Hz

For switching between heating/cooling the EBERLE terminal strip EV..H/K is necessary.

Thermoplastic (breakproof) high-gloss

ivory	TR CD 236
white	TR CD 236 WW
brown	TR CD 236 BR
grey	TR CD 236 GR
light grey	TR CD 236 LG
black	TR CD 236 SW

metal versions (anodized aluminium)

gold-bronze	TR CD 236 GB
platinum	TR CD 236 PT

Room thermostat (2-way contact)

1-pole, 2-way, heating 10 (4) A, AC 24 V ~

1-pole, 2-way, cooling 5 (2) A, AC 24 V ~

Thermoplastic (breakproof) high-gloss

ivory	TR CD 246
white	TR CD 246 WW
brown	TR CD 246 BR
grey	TR CD 246 GR
light grey	TR CD 246 LG
black	TR CD 246 SW

metal versions (anodized aluminium)

gold-bronze	TR CD 246 GB
platinum	TR CD 246 PT

Floor thermostat

1-pole NO contact 10 A, AC 230 V ~, 50/60 Hz

Thermoplastic (breakproof) high-gloss

ivory	FTR CD 231
white	FTR CD 231 WW
brown	FTR CD 231 BR
grey	FTR CD 231 GR
light grey	FTR CD 231 LG
black	FTR CD 231 SW

metal versions (anodized aluminium)

gold-bronze	FTR CD 231 GB
platinum	FTR CD 231 PT

Special knob, manipulation-proof

ivory	MS TR 231
white	MS TR 231 WW
brown	MS TR 231 BR
grey	MS TR 231 GR
light grey	MS TR 231 LG
black	MS TR 231 SW

for metal versions

bronze-beige	MS TR 231 BB
platinum-grey	MS TR 231 PG

The set temperature can no longer be changed after the knob has been "locked".

Dismounting only possible with tool.

	Ref.-no.
Humidistat	
Thermoplastic (breakproof) high-gloss	
ivory	CD 5201 HYG
white	CD 5201 HYG WW
grey	CD 5201 HYG GR
light grey	CD 5201 HYG LG

Room thermostat with display standard

consists of room thermostat insert (ref.-no.: 1790 RTR) and display (ref.-no.: .. 1790 D ..)

white	TR D CD 1790 WW
black	TR D CD 1790 SW

External temperature sensor

for room thermostat ref.-no. 1790 RTR, TR D .. 1790 ..

spare part for floor thermostat ref.-no. FTR .. 231 ..

The sensor cable can be connected using a bifilar cable of 1.5 mm² in diameter that is suitable for mains voltage. When installed in a cable duct or near high voltage current cables, a shielded cable must be used.

FF 7.8

Also suitable as external temperature sensor for the following KNX devices, ref.-no.:

.. 2178 TS .., .. 2178 ORTS .., .. 5192 KRM TS D, .. 5194 KRM TS D, 2177 SV R, 23066 REGHE

Technical data

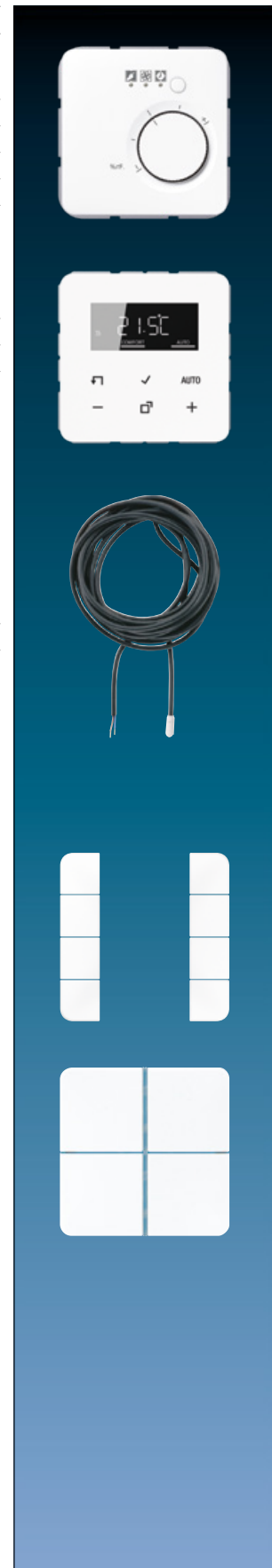
NTC sensor in plastic cap 7.8 mm Ø

Cable length: 4 m

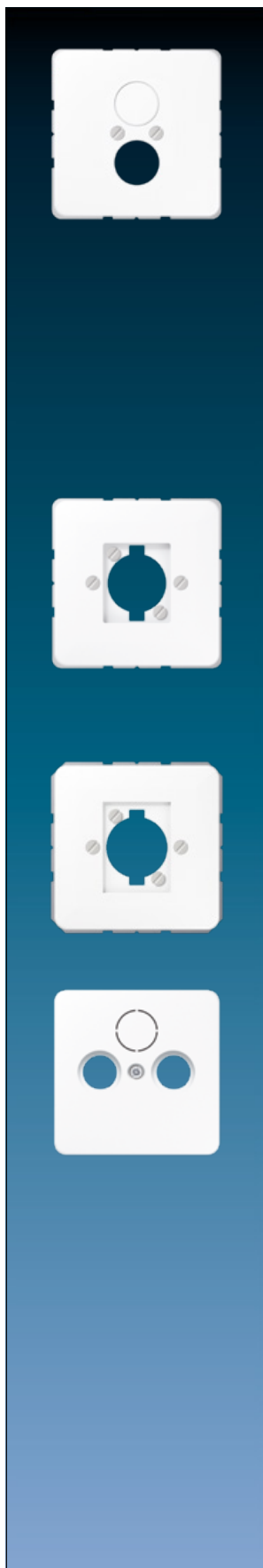
Ambient temperature: -25 ... +70 °C

Cover kits F50 see as of page 665

Cover kits F40 see as of page 672



CD range



Ref.-no.

Centre plate

with supporting frame, screw fixing only

for 2 loudspeaker sockets up to 18.5 mm Ø or with flange mounting 22.5 mm hole spacing.

In connection with mounting plate ref.-no. 63 WBT (not included) for loudspeaker terminal ref.-no. LPK 63 RT/SW and RCA socket ref.-no. CIB 63.

Second hole can be broken out.

Duroplastic (scratch-proof) glossy

ivory	P	562
white	P	CD 562 WW
brown		CD 562 BR
grey		CD 562 GR
light grey	P	CD 562 LG
black		CD 562 SW

metal versions (anodized aluminium)

gold-bronze	L	CD 562 GB
platinum	L	CD 562 PT

Centre plate

with supporting frame, screw fixing only

for loudspeaker socket ref.-no.: PB 4

for chassis connector ref.-no.: CXLR-S, CXLR-D

for XLR chassis Neutrik D / DL / DLX Series

internal dimensions (W x H): 27.5 x 32.5 mm

Duroplastic (scratch-proof) glossy

ivory	P	568-1
white	P	CD 568-1 WW

Centre plate for XLR socket

with supporting frame, screw fixing only

e.g. Binder, Cannon, Neutrik (P Series)

internal dimensions (W x H): 27.5 x 37 mm

Duroplastic (scratch-proof) glossy

ivory	P	568
white	P	CD 568 WW

Centre plate

for TV-FM socket outlet inserts ref.-no.: EDU 04 F, GEDU 10, GEDU 15

for SAT-TV-FM socket outlet inserts ref.-no.: EDA 302 F, GDA 313 F

for TV-FM sockets acc. to DIN 45330 and standard SAT-TV-FM sockets

Thermoplastic (breakproof) high-gloss

ivory	L	561 SAT
white	L	CD 561 SAT WW
brown		CD 561 SAT BR
grey	L	CD 561 SAT GR
light grey	L	CD 561 SAT LG
black	L	CD 561 SAT SW

metal versions (anodized aluminium)

gold-bronze	L	CD 561 SAT GB
platinum	L	CD 561 SAT PT

Ref.-no.

Electronic door signal AC 8 – 12 V ~ / DC 12 – 17 V

with supporting frame, screw fixing only

Thermoplastic (breakproof) high-gloss

ivory	567 S
white	CD 567 S WW

Technical data

Loudness:	approx. 82 dB(A) (sound 1, approx. 800 Hz), distance 1 m and AC 12 V ~ (Piezo, with sound generator) approx. 96 dB(A) (sound 2, approx. 3000 Hz), distance 1 m and AC 12 V ~ (Piezo, with sound generator)
Terminals:	~ 1 sound 1 (approx. 800 Hz) ~ 2 sound 2 (approx. 3,000 Hz)
Current consumption:	approx. 24 mA at AC 12 V ~ approx. 12 mA at DC 12 V

Triple-tone door signal

with supporting frame, screw fixing only

Thermoplastic (breakproof) high-gloss



ivory	CD 567-G3
white	CD 567-G3 WW

2 separate terminals for 2 or 3 tone signal
power supply: 8 ... 12 V AC or 8 ... 24 V DC, via external power supply (SELV)
e.g. ref.-no. NT 2405 VDC or NT 2415 REG VDC
current consumption: approx. 150 mA



Cable outlet

with supporting frame, screw fixing only
opening for cables with max. 8 mm Ø

Duroplastic (scratch-proof) glossy

ivory	 590 A
white	 CD 590 A WW
brown	CD 590 A BR
grey	CD 590 A GR
light grey	 CD 590 A LG
black	CD 590 A SW

metal versions (anodized aluminium)


gold-bronze	 CD 590 A GB
platinum	 CD 590 A PT

Cable outlet

with inscription field 6 x 37 mm

with supporting frame, screw fixing only
opening for cables with max. 8 mm Ø

Duroplastic (scratch-proof) glossy

ivory	 590 NAA
white	 CD 590 NAA WW

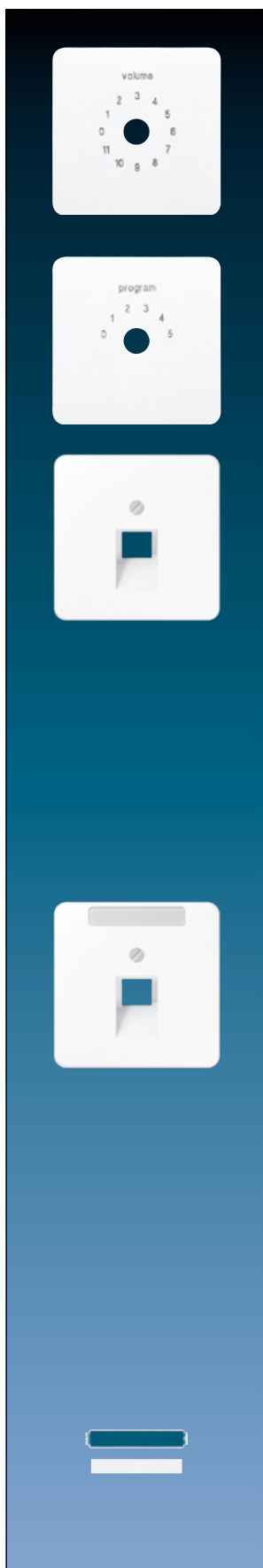
Transparent cover with paper inlay

for inscription field 6 x 37 mm
(Spare part)

paper inlay white	CD 20 NA
-------------------	-----------------



CD range



Ref.-no.

Centre plate for volume control (0 – 11):

Dynacord L 314 / L 3100

discontinued: WHD LSt 6 CD- / LSt 50 CD- / LR 15..CD

for available WHD inserts see covers with ref.-no. .. 1541 .. or .. 1941 ..

Thermoplastic (breakproof) high-gloss

ivory	594-8
white	CD 594-8 WW

Centre plate for program selection (0 – 5):

Dynacord L 314 SR / L 3100 SR

WHD PRO 3 CD..

Thermoplastic (breakproof) high-gloss

ivory	594-9
white	CD 594-9 WW

Centre plate

for 1-gang modular jack sockets

IAE/UAE sockets ref.-no.: UAE 8 UPO

for sockets Cat. 6 ref.-no.: UAE 8 UPOK6

(1 x 8-pol.)

for WLAN access point ref.-no.: WLAN-AC-UAE, WLAN-AC-POE-UAE

Thermoplastic (breakproof) high-gloss

ivory	CD 569-1 UA
white	CD 569-1 UA WW
brown	CD 569-1 UA BR
grey	CD 569-1 UA GR
light grey	CD 569-1 UA LG
black	CD 569-1 UA SW

metal versions (anodized aluminium)

gold-bronze	CD 569-1 UA GB
platinum	CD 569-1 UA PT

Centre plate with inscription field 6 x 37 mm

for 1-gang modular jack sockets

IAE/UAE sockets ref.-no.: UAE 8 UPO

for sockets Cat. 6 ref.-no.: UAE 8 UPOK6

(1 x 8-pol.)

for WLAN access point ref.-no.: WLAN-AC-UAE, WLAN-AC-POE-UAE

Thermoplastic (breakproof) high-gloss

ivory	CD 569-1 NAUA
white	CD 569-1 NAUA WW
brown	CD 569-1 NAUA BR
grey	CD 569-1 NAUA GR
light grey	CD 569-1 NAUA LG
black	CD 569-1 NAUA SW

metal versions (anodized aluminium)

gold-bronze	CD 569-1 NAUA GB
platinum	CD 569-1 NAUA PT

Suitable inserts:

Rutenbeck: UAE 8(4) UPO, UAE 8(8) UPO, UAE-Cat.5e-8 UPO OK, UAE-real.Cat.6-8 UPO OK

Telegärtner: AMJ 45, UMJ 45 and ISDN 1 x RJ 45 (TYP 8)

Transparent cover with paper inlay

for inscription field 6 x 37 mm

(Spare part)





paper inlay white	CD 20 NA
-------------------	----------

Ref.-no.


Centre plate

for 2-gang modular jack sockets
IAE/UAE sockets ref.-no.: UAE 2 x 8 UPO, UAE 8-8 UPO
for sockets Cat. 6 ref.-no.: UAE 8-8 UPOK6
(2 x 8-pol.)
for media converter 2-gang ref.-no.: MK-POF-2UAE

Thermoplastic (breakproof) high-gloss

ivory	 569-2 UA
white	 CD 569-2 UA WW
brown	CD 569-2 UA BR
grey	 CD 569-2 UA GR
light grey	 CD 569-2 UA LG
black	 CD 569-2 UA SW

metal versions (anodized aluminium)

gold-bronze	 CD 569-2 UA GB
platinum	 CD 569-2 UA PT






Suitable inserts:

METZ CONNECT (BTR): 1307441001-i or 1307441200-i; E-Dat design 8/8(8), Class E
Rutenbeck: UAE 8/8 (8/8) UPO, UAE 2x8 (8) UPO, UAE-Cat.5e-8/8 UPO OK, UAE-real.Cat.6-8/8 UPO OK
Telegärtner: AMJ 45, UMJ 45 and ISDN 2 x RJ 45 (TYP 8/8)



Centre plate with inscription field 6 x 37 mm

for 2-gang modular jack sockets
IAE/UAE sockets ref.-no.: UAE 2 x 8 UPO, UAE 8-8 UPO
for sockets Cat. 6 ref.-no.: UAE 8-8 UPOK6
(2 x 8-pol.)
for media converter 2-gang ref.-no.: MK-POF-2UAE

Thermoplastic (breakproof) high-gloss

ivory	 569-2 NAUA
white	 CD 569-2 NAUA WW
brown	CD 569-2 NAUA BR
grey	 CD 569-2 NAUA GR
light grey	 CD 569-2 NAUA LG
black	 CD 569-2 NAUA SW

metal versions (anodized aluminium)

gold-bronze	 CD 569-2 NAUA GB
platinum	 CD 569-2 NAUA PT

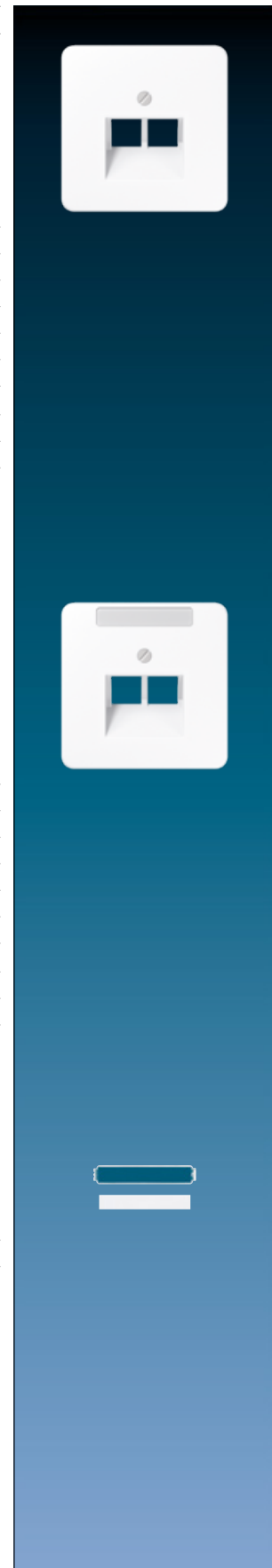
Suitable inserts:

METZ CONNECT (BTR): 1307441001-i or 1307441200-i; E-Dat design 8/8(8), Class E
Rutenbeck: UAE 8/8 (8/8) UPO, UAE 2x8 (8) UPO, UAE-Cat.5e-8/8 UPO OK, UAE-real.Cat.6-8/8 UPO OK
Telegärtner: AMJ 45, UMJ 45 and ISDN 2 x RJ 45 (TYP 8/8)

Transparent cover with paper inlay

for inscription field 6 x 37 mm
(Spare part)

paper inlay white	CD 20 NA
-------------------	----------



CD range



Ref.-no.

Centre plate (screw fixing)

for stereo loudspeaker socket ref.-no.: SLA 2 WW, SLA 2 AN
for 2-gang supporting frame ref.-no.: UMA-MA2 in connection with universal modular jack socket type A ref.-no.: UMA-CAT6A
for USB charger ref.-no.: USB 15 CA WW, USB 15 CA SW

Thermoplastic (breakproof) high-gloss

ivory	569 T
white	CD 569 T WW
brown	CD 569 T BR
grey	CD 569 T GR
light grey	CD 569 T LG
black	CD 569 T SW

for **Rutenbeck**: UM-MA 2 Up with UM-real Cat.6a A
for **Dätwyler**: flush-mounted modular jack socket (for 2 x MS-K 1/8 Cat.6a), ref.-no.: 440 012

Centre plate (screw fixing)

for 2-gang supporting frame ref.-no.: UMA-MA2 in connection with universal modular jack socket type A ref.-no.: UMA-CAT6A
for USB charger ref.-no.: USB 15 CA WW, USB 15 CA SW

metal versions (anodized aluminium)

gold-bronze	CD 569 T GB
platinum	CD 569 T PT

for **Rutenbeck**: UM-MA 2 Up with UM-real Cat.6a A
for **Dätwyler**: flush-mounted modular jack socket (for 2 x MS-K 1/8 Cat.6a), ref.-no.: 440 012

Centre plate (screw fixing) with inscription field 6 x 37 mm

for stereo loudspeaker socket ref.-no.: SLA 2 WW, SLA 2 AN
for 2-gang supporting frame ref.-no.: UMA-MA2 in connection with universal modular jack socket type A ref.-no.: UMA-CAT6A
for USB data interface ref.-no.: 2131 USBS
for USB charger ref.-no.: USB 15 CA WW, USB 15 CA SW

Thermoplastic (breakproof) high-gloss

ivory	569 TNA
white	CD 569 TNA WW

for **Rutenbeck**: UM-MA 2 Up with UM-real Cat.6a A
for **Dätwyler**: flush-mounted modular jack socket (for 2 x MS-K 1/8 Cat.6a), ref.-no.: 440 012

Transparent cover with paper inlay

for inscription field 6 x 37 mm
(Spare part)

paper inlay white	CD 20 NA
-------------------	----------

USB charger see page 72

Centre plate (snap-on fixing) with inscription field 6 x 37 mm

with supporting frame, screw fixing only
for universal modular jack socket ref.-no.: UMA-CAT6A

for 1 socket

Thermoplastic (breakproof) high-gloss

ivory	569-1 WE
white	CD 569-1 WE WW

Ref.-no.

for 2 sockets

Thermoplastic (breakproof) high-gloss

ivory	 569-2 WE
white	 CD 569-2 WE WW

for modular jack sockets

RADIALL:

modular jack unshielded 6P6C, RJ 12, Cat. 4 (ref.-no. R280MOD804)
 modular jack unshielded 8P8C, RJ 45, Cat. 4 (ref.-no. R280MOD805)
 modular jack unshielded 8P8C, RJ 45, Cat. 5e (ref.-no. R280MOD807)

Panduit:

keystone jack KJ 88..
 keystone jack KJ 588..

Assmann:

module DN-93612 Cat. 6A, shielded, Keystone
 module DN-93614

SCHRACK

HSPMRJ6G1A, HSEMRJ6GBA, HSEMRJ6GBS, HSEMRJ6GWA, HSEMRJ6GWS, HSEMRJ6UWS

Centre plate (snap-on fixing) with inscription field 6 x 37 mm

with supporting frame, screw fixing only

for modular jack Avaya (AT&T)

Cat. 3 RJ 45, M1 series: ref.-no. M1BH.., unshielded,
 Cat. 5 RJ 45, MPS100 series: ref.-no. MPS100BH.., unshielded,
 Cat. 6 RJ 45, MGS200 series: GigaSPEED, ref.-no. MGS200BH.., unshielded

for 2 sockets

Thermoplastic (breakproof) high-gloss

ivory	 569-2 AT
white	 CD 569-2 AT WW



Potential equalisation socket

with supporting frame, screw fixing only

with 2 one-pole built-in male sockets according to DIN 42801

for wires up to 6 mm²

Duroplastic (scratch-proof) glossy

ivory	 565-2
white	 CD 565-2 WW

Right angle plug

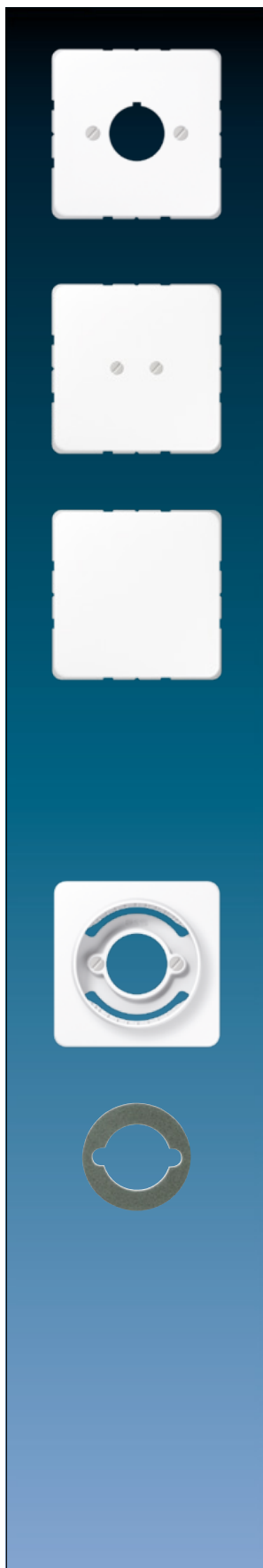
for potential equalisation socket

screw terminal for wires with 4 or 6 mm²

65 WIS



CD range



Ref.-no.

Centre plate (screw fixing)

with supporting frame, screw fixing only
for commanding appliance with Ø 22.5 mm
e.g. Moeller, Rafi, Schlegel, Lumitas, Kraus-Naimer

Duroplastic (scratch-proof) glossy

ivory	IP	564
white	IP	CD 564 WW
yellow		564 GE

Blank centre plate (screw fixing)

with supporting frame, screw fixing only

Duroplastic (scratch-proof) glossy

ivory	IP	561 B
white	IP	CD 561 B WW

Blank centre plate (snap-on fixing)

with supporting frame, screw fixing only

Thermoplastic (breakproof) high-gloss

ivory	IP	L	594-0
white	IP	L	CD 594-0 WW
brown	IP		CD 594-0 BR
grey	IP	L	CD 594-0 GR
light grey	IP	L	CD 594-0 LG
black	IP	L	CD 594-0 SW

metal versions (anodized aluminium)

gold-bronze	L	CD 594-0 GB
platinum	L	CD 594-0 PT

The cover will be installed with snap-on fixing and enables individual cuttings or drilling holes.

Centre plate

for pilot lights ref.-no.: 938-10 U and 938-14 U

Duroplastic (scratch-proof) glossy

ivory	IP	537
white	IP	CD 537 WW

Sealing gasket

for covers for pilot light ref.-no.: ..537..., ..937..

IP	37 D
----	------

To obtain protection level IP 44 the sealing gasket ref.-no.: 37 D has to be placed into the pilot light centre plate and IP 44 frame has to be used.

	Ref.-no.
Screw cap	
for covers for pilot light ref.-no.: ..537.., ..937..	
flat, for lamps up to max. length of 35 mm	
transparent	37.02
red	37.05
green	37.06
yellow	37.07
blue	37.08
high, for lamps up to max. length of 54 mm	
transparent	37
red	37 R
green	37 G
yellow	37 GE
blue	37 BL
Intermediate frame	
to install devices with 50 x 50 mm cover (DIN 49075)	
Thermoplastic (breakproof) high-gloss	
ivory	590 Z
white	CD 590 Z WW
Intermediate frame	
to install devices of other manufacturers with 55 x 55 mm cover Not suitable for devices of the AS / A ranges.	
Thermoplastic (breakproof) high-gloss	
ivory	561 Z5
white	CD 561 Z5 WW
Intermediate frame	
for the installation of "Ackermann" RJ 45 sockets WAEG..	
Thermoplastic (breakproof) high-gloss	
ivory	590 ZA
white	CD 590 ZA WW
Hinged lid	
for sockets and devices with 50 x 50 mm cover	
Thermoplastic (breakproof) high-gloss	
ivory	CD 590 KL
white	CD 590 KL WW
brown	CD 590 KL BR
grey	CD 590 KL GR
green	CD 590 KL GN
light grey	CD 590 KL LG
orange	CD 590 KL O
black	CD 590 KL SW
metal versions (anodized aluminium)	
gold-bronze	CD 590 KL GB
platinum	CD 590 KL PT



CD range



Ref.-no.

Hinged lid with spring

for sockets and devices with 50 x 50 mm cover

Thermoplastic (breakproof) high-gloss

ivory	CD 590 BFKL
white	CD 590 BFKL WW
brown	CD 590 BFKL BR
grey	CD 590 BFKL GR
green	CD 590 BFKL GN
light grey	CD 590 BFKL LG
orange	CD 590 BFKL O

Hinged lid with spring

with inscription field 9 x 58 mm

for sockets and devices with 50 x 50 mm cover

Thermoplastic (breakproof) high-gloss

ivory	CD 590 BFNAKL
white	CD 590 BFNAKL WW
brown	CD 590 BFNAKL BR
grey	CD 590 BFNAKL GR
green	CD 590 BFNAKL GN
light grey	CD 590 BFNAKL LG
orange	CD 590 BFNAKL O
red	CD 590 BFNAKL RT

Transparent cover with paper inlay

for inscription field 9 x 58 mm

(Spare part)

paper inlay white	CD 90 NA
-------------------	----------

Hinged lid with spring

with safety lock (24 different locks)

with inscription field 9 x 39 mm

for sockets and devices with 50 x 50 mm cover

Thermoplastic (breakproof) high-gloss

ivory	CD 590 BFKLSL
white	CD 590 BFKLSL WW
brown	CD 590 BFKLSL BR
grey	CD 590 BFKLSL GR
green	CD 590 BFKLSL GN
light grey	CD 590 BFKLSL LG
orange	CD 590 BFKLSL O
red	CD 590 BFKLSL RT

Key

1 piece	802 SL - 825 SL
---------	-----------------

When ordering, please indicate lock number!

Transparent cover with paper inlay

for inscription field 9 x 39 mm

(Spare part)

paper inlay white	LS 90 NA
-------------------	----------

Ref.-no.

Hinged lid

with symbol "charger"

for USB charger ref.-no.: USB 15 CA WW, USB 15 CA SW
including centre plate

Thermoplastic (breakproof) high-gloss

ivory	CD 590 KL USB
white	CD 590 KL USB WW
brown	CD 590 KL USB BR
grey	CD 590 KL USB GR
light grey	CD 590 KL USB LG
black	CD 590 KL USB SW

metal versions (anodized aluminium)

gold-bronze	CD 590 KL USB GB
platinum	CD 590 KL USB PT

Hinged lid

with symbol "plug"

for sockets with 50 x 50 mm cover

Thermoplastic (breakproof) high-gloss

ivory	CD 590 KL SOC
white	CD 590 KL SOC WW
brown	CD 590 KL SOC BR
grey	CD 590 KL SOC GR
light grey	CD 590 KL SOC LG
black	CD 590 KL SOC SW

metal versions (anodized aluminium)

gold-bronze	CD 590 KL SOC GB
platinum	CD 590 KL SOC PT

Hinged lid

with symbol "LAN"

for 2-gang modular jack sockets

IAE/UAE sockets ref.-no.: UAE 2 x 8 UPO, UAE 8-8 UPO

for sockets Cat. 6 ref.-no.: UAE 8-8 UPOK6

(2 x 8-pol.)

including centre plate

Thermoplastic (breakproof) high-gloss

ivory	CD 590 KL LAN
white	CD 590 KL LAN WW
brown	CD 590 KL LAN BR
grey	CD 590 KL LAN GR
light grey	CD 590 KL LAN LG
black	CD 590 KL LAN SW

metal versions (anodized aluminium)

gold-bronze	CD 590 KL LAN GB
platinum	CD 590 KL LAN PT



CD range



Ref.-no.

Convex hinged lid

with inscription field 23 x 59 mm
for sockets and devices with 50 x 50 mm cover

Thermoplastic (breakproof) high-gloss

white

CD 554 KL WW

Convex hinged lid

with inscription field 23 x 59 mm
with safety lock
for sockets and devices with 50 x 50 mm cover

Thermoplastic (breakproof) high-gloss

white

CD 554 SLKL WW

Key

1 piece

802 SL – 825 SL

When ordering, please indicate lock number!

Transparent cover with paper inlay

for inscription field 23 x 59 mm

(Spare part)

paper inlay white

CD 54 NA

Sealing gasket

to ensure protection level IP 44

for all flush-mounted switch/push-button inserts of the 500 range, SCHUKO® sockets with hinged lid, rotary switches and timer switch inserts

for all devices, covers and frames with blue "IP 44 marking"

in some cases with additional gaskets acc. to product description

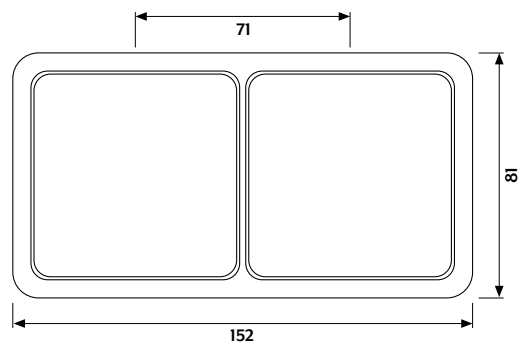
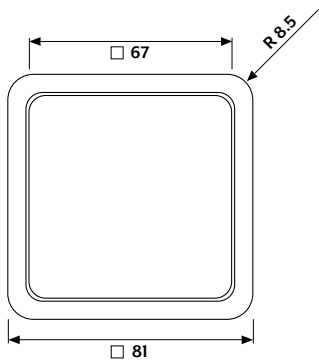
IP

551 WU

CD 500



PLATINUM



Frame edge radius

R 8.5

Frame dimensions

1-gang	81 mm x 81 mm
2-gang	81 mm x 152 mm
3-gang	81 mm x 223 mm
4-gang	81 mm x 294 mm
5-gang	81 mm x 365 mm

CD range

CD 500



Ref.-no.

**Frame
for horizontal and vertical installation
Duroplastic (scratch-proof) glossy**

ivory

1-gang	81 x 81 mm	IP	CD 581 W
2-gang	81 x 152 mm	IP	CD 582 W
3-gang	81 x 223 mm	IP	CD 583 W
4-gang	81 x 294 mm	IP	CD 584 W
5-gang	81 x 365 mm	IP	CD 585 W

white

1-gang	81 x 81 mm	IP	CD 581 WW
2-gang	81 x 152 mm	IP	CD 582 WW
3-gang	81 x 223 mm	IP	CD 583 WW
4-gang	81 x 294 mm	IP	CD 584 WW
5-gang	81 x 365 mm	IP	CD 585 WW

brown

1-gang	81 x 81 mm	IP	CD 581 BR
2-gang	81 x 152 mm	IP	CD 582 BR
3-gang	81 x 223 mm	IP	CD 583 BR
4-gang	81 x 294 mm	IP	CD 584 BR
5-gang	81 x 365 mm	IP	CD 585 BR

grey

1-gang	81 x 81 mm	IP	CD 581 GR
2-gang	81 x 152 mm	IP	CD 582 GR
3-gang	81 x 223 mm	IP	CD 583 GR
4-gang	81 x 294 mm	IP	CD 584 GR
5-gang	81 x 365 mm	IP	CD 585 GR

light grey

1-gang	81 x 81 mm	IP	CD 581 LG
2-gang	81 x 152 mm	IP	CD 582 LG
3-gang	81 x 223 mm	IP	CD 583 LG
4-gang	81 x 294 mm	IP	CD 584 LG
5-gang	81 x 365 mm	IP	CD 585 LG

black

1-gang	81 x 81 mm	IP	CD 581 SW
2-gang	81 x 152 mm	IP	CD 582 SW
3-gang	81 x 223 mm	IP	CD 583 SW
4-gang	81 x 294 mm	IP	CD 584 SW
5-gang	81 x 365 mm	IP	CD 585 SW

Ref.-no.

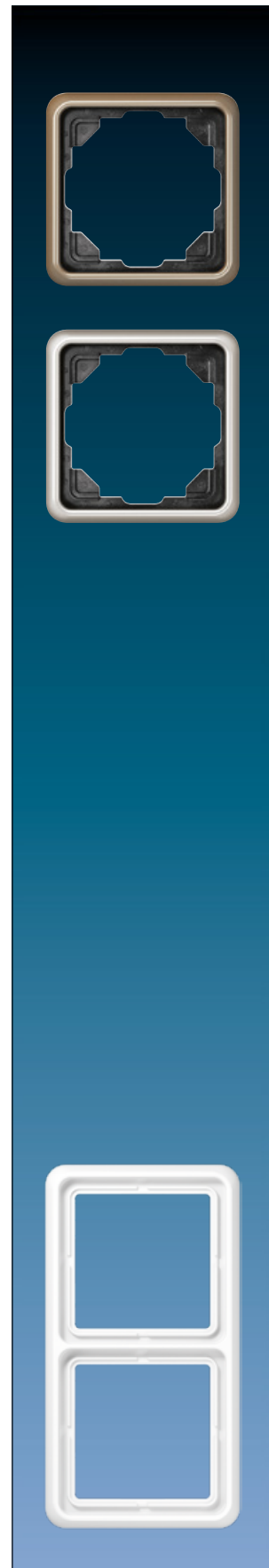
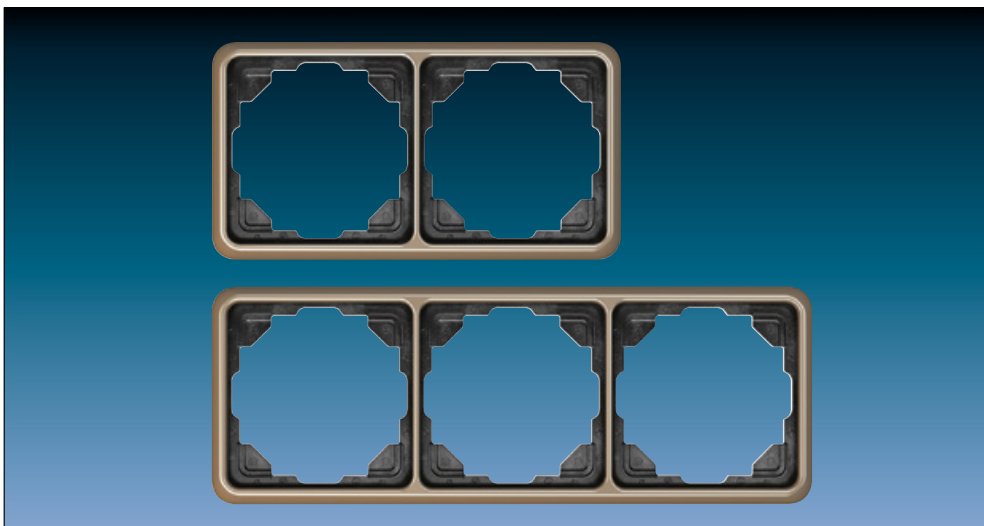
**Frame
for horizontal and vertical installation
metal versions (anodized aluminium)**

gold-bronze

1-gang	81 x 81 mm	CD 581 GB
2-gang	81 x 152 mm	CD 582 GB
3-gang	81 x 223 mm	CD 583 GB
4-gang	81 x 294 mm	CD 584 GB
5-gang	81 x 365 mm	CD 585 GB

platinum

1-gang	81 x 81 mm	CD 581 PT
2-gang	81 x 152 mm	CD 582 PT
3-gang	81 x 223 mm	CD 583 PT
4-gang	81 x 294 mm	CD 584 PT
5-gang	81 x 365 mm	CD 585 PT



**Frame
for horizontal and vertical installation
Thermoplastic (breakproof) high-gloss**

ivory

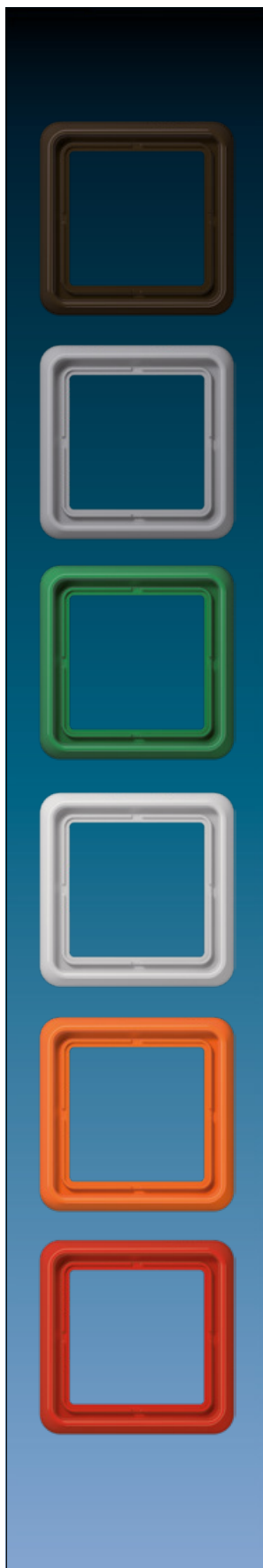
1-gang	81 x 81 mm	IP	CD 581 WU W
2-gang	81 x 152 mm	IP	CD 582 WU W
3-gang	81 x 223 mm	IP	CD 583 WU W
4-gang	81 x 294 mm	IP	CD 584 WU W
5-gang	81 x 365 mm	IP	CD 585 WU W

white

1-gang	81 x 81 mm	IP	CD 581 WU WW
2-gang	81 x 152 mm	IP	CD 582 WU WW
3-gang	81 x 223 mm	IP	CD 583 WU WW
4-gang	81 x 294 mm	IP	CD 584 WU WW
5-gang	81 x 365 mm	IP	CD 585 WU WW

CD range

CD 500



Ref.-no.

Frame for horizontal and vertical installation

brown

1-gang	81 x 81 mm	IP	CD 581 WU BR
2-gang	81 x 152 mm	IP	CD 582 WU BR
3-gang	81 x 223 mm	IP	CD 583 WU BR
4-gang	81 x 294 mm	IP	CD 584 WU BR
5-gang	81 x 365 mm	IP	CD 585 WU BR

grey

1-gang	81 x 81 mm	IP	CD 581 WU GR
2-gang	81 x 152 mm	IP	CD 582 WU GR
3-gang	81 x 223 mm	IP	CD 583 WU GR
4-gang	81 x 294 mm	IP	CD 584 WU GR
5-gang	81 x 365 mm	IP	CD 585 WU GR

green

1-gang	81 x 81 mm	IP	CD 581 WU GN
2-gang	81 x 152 mm	IP	CD 582 WU GN
3-gang	81 x 223 mm	IP	CD 583 WU GN
4-gang	81 x 294 mm	IP	CD 584 WU GN
5-gang	81 x 365 mm	IP	CD 585 WU GN

light grey

1-gang	81 x 81 mm	IP	CD 581 WU LG
2-gang	81 x 152 mm	IP	CD 582 WU LG
3-gang	81 x 223 mm	IP	CD 583 WU LG
4-gang	81 x 294 mm	IP	CD 584 WU LG
5-gang	81 x 365 mm	IP	CD 585 WU LG

orange

1-gang	81 x 81 mm	IP	CD 581 WU O
2-gang	81 x 152 mm	IP	CD 582 WU O
3-gang	81 x 223 mm	IP	CD 583 WU O
4-gang	81 x 294 mm	IP	CD 584 WU O
5-gang	81 x 365 mm	IP	CD 585 WU O

red

1-gang	81 x 81 mm	IP	CD 581 WU RT
2-gang	81 x 152 mm	IP	CD 582 WU RT
3-gang	81 x 223 mm	IP	CD 583 WU RT

Ref.-no.

**Frame for cable duct installation
for horizontal and vertical installation
Thermoplastic (breakproof) high-gloss**

ivory

1-gang	80 x 80 mm	CD 581 K W
2-gang	80 x 151 mm	CD 582 K W
3-gang	80 x 222 mm	CD 583 K W

white

1-gang	80 x 80 mm	CD 581 K WW
2-gang	80 x 151 mm	CD 582 K WW
3-gang	80 x 222 mm	CD 583 K WW

grey

1-gang	80 x 80 mm	CD 581 K GR
2-gang	80 x 151 mm	CD 582 K GR
3-gang	80 x 222 mm	CD 583 K GR

light grey

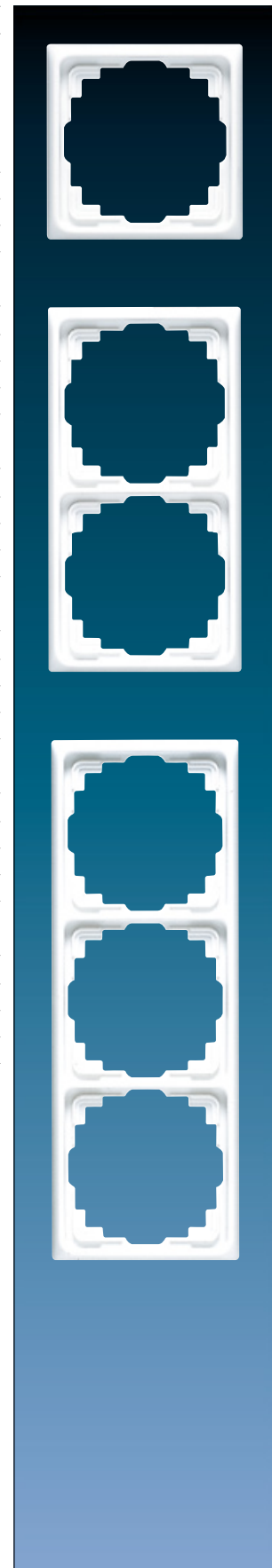
1-gang	80 x 80 mm	CD 581 K LG
2-gang	80 x 151 mm	CD 582 K LG
3-gang	80 x 222 mm	CD 583 K LG

green

1-gang	80 x 80 mm	CD 581 K GN
2-gang	80 x 151 mm	CD 582 K GN
3-gang	80 x 222 mm	CD 583 K GN

orange

1-gang	80 x 80 mm	CD 581 K O
2-gang	80 x 151 mm	CD 582 K O
3-gang	80 x 222 mm	CD 583 K O



CD range

CD 500



Ref.-no.

SCHUKO® socket for cable ducts 16 A / 250 V ~

crewless terminals for wires up to 2.5 mm²

Cover with integrated frame

for installation into cable duct boxes

dimensions: 80 x 151 mm

3-gang

Duroplastic (scratch-proof) glossy

ivory	P	CD 523
white	P	CD 523 WW

SCHUKO® socket for cable ducts 16 A / 250 V ~

with 1 inscription field 6 x 37 mm above middle socket

crewless terminals for wires up to 2.5 mm²

Cover with integrated frame

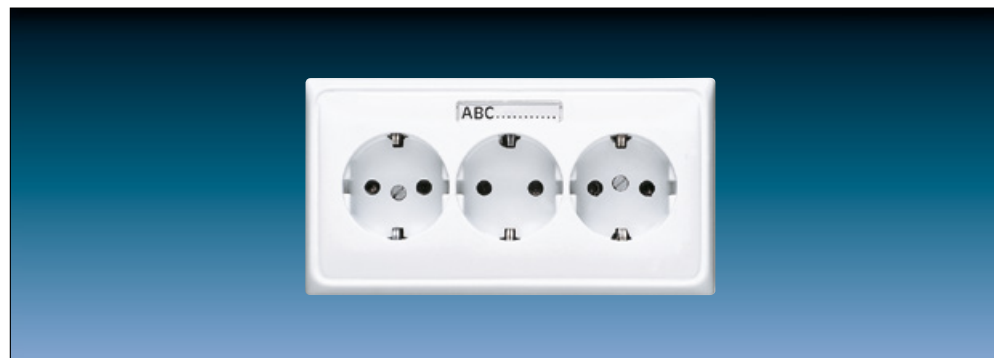
for installation into cable duct boxes

dimensions: 80 x 151 mm

3-gang

Duroplastic (scratch-proof) glossy

ivory	P	CD 523 NA
white	P	CD 523 NA WW



Transparent cover with paper inlay

for inscription field 6 x 37 mm

(Spare part)

paper inlay white

CD 20 NA



Ref.-no.

Surface cap

with integrated frame and non-flammable ground plate
for inserts with covers of the CD range (except key switches ref.-no. ...15,
3-level-switch and socket for Switzerland type 13)
1-gang, 85 x 85 x 47 mm

Duroplastic (scratch-proof) glossy

ivory	CD 581 A W
white	CD 581 A WW
brown	CD 581 A BR
grey	CD 581 A GR

2-gang, 156 x 85 x 47 mm

Duroplastic (scratch-proof) glossy

ivory	CD 582 A W
white	CD 582 A WW
brown	CD 582 A BR
grey	CD 582 A GR

3-gang, 227 x 85 x 47 mm

Duroplastic (scratch-proof) glossy

ivory	CD 583 A W
white	CD 583 A WW
brown	CD 583 A BR
grey	CD 583 A GR

Mounting box for surface caps

(Spare part)

1-gang	581 A
2-gang	582 A
3-gang	583 A

Strain relief

for surface caps

for cables 3 x 1.5 mm² up to 5 x 2.5 mm² (Ø 7 up to 13 mm)

58 A ZUG

Inlets for cables, pipes and trunkings in surface caps

for cable and mini trunking

ivory	11
white	11 WW
brown	11 BR
grey	11 GR

for trunking 15 x 15 mm

ivory	12
white	12 WW
brown	12 BR
grey	12 GR

for pipes with outside Ø 16 mm

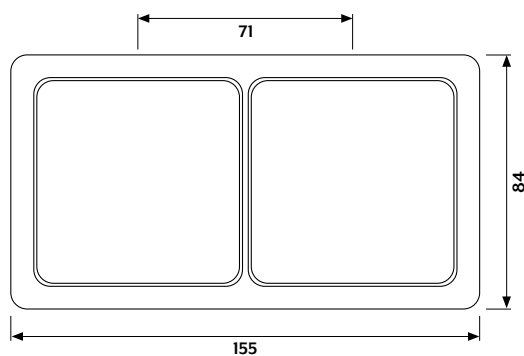
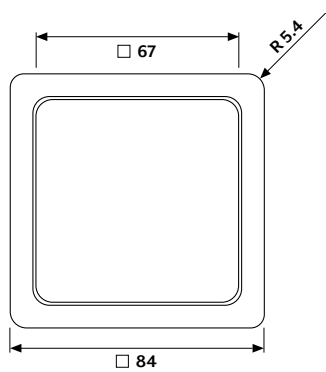
ivory	13
white	13 WW
brown	13 BR
grey	13 GR



CD PLUS



WHITE WITH INTERNAL COLOUR FRAME IN LIGHT GREEN



Frame edge radius

R 5.4

Frame dimensions

1-gang	84 mm x 84 mm
2-gang	84 mm x 155 mm
3-gang	84 mm x 226 mm
4-gang	84 mm x 297 mm
5-gang	84 mm x 368 mm

Ref.-no.

**Frame
for horizontal and vertical installation
for CD range**

To be completed with internal colour frames (ref.-no.: CDP 81 ..) or external colour frames (ref.-no.: CDP 82 ..)

Duroplastic (scratch-proof) glossy

white

1-gang	84 x 84 mm	CDP 581 WW
2-gang	84 x 155 mm	CDP 582 WW
3-gang	84 x 226 mm	CDP 583 WW
4-gang	84 x 297 mm	CDP 584 WW
5-gang	84 x 368 mm	CDP 585 WW

light grey

1-gang	84 x 84 mm	CDP 581 LG
2-gang	84 x 155 mm	CDP 582 LG
3-gang	84 x 226 mm	CDP 583 LG
4-gang	84 x 297 mm	CDP 584 LG
5-gang	84 x 368 mm	CDP 585 LG

black

1-gang	84 x 84 mm	CDP 581 SW
2-gang	84 x 155 mm	CDP 582 SW
3-gang	84 x 226 mm	CDP 583 SW
4-gang	84 x 297 mm	CDP 584 SW
5-gang	84 x 368 mm	CDP 585 SW

Internal colour frame

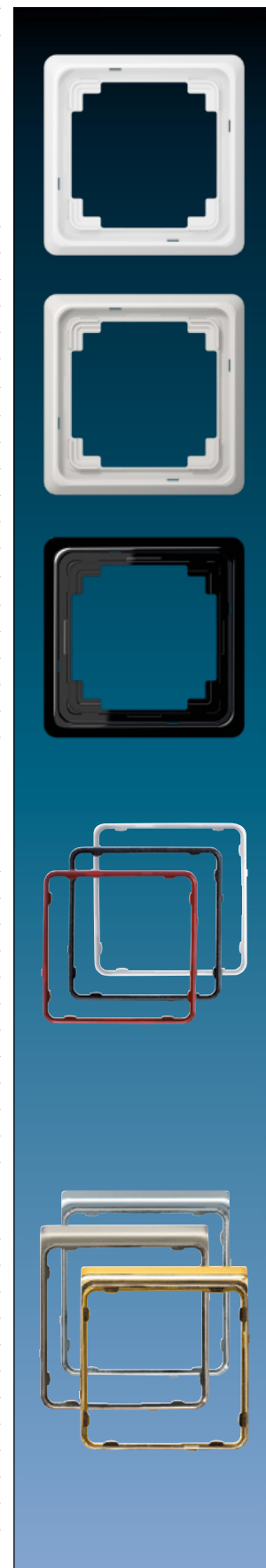
for installation in frames ref.-no. CDP 58..

light grey	CDP 81 LG
yellow	CDP 81 GE
light green	CDP 81 LGN
stainless steel	CDP 81 ES
granite	CDP 81 GT
metallic green	CDP 81 GNM
metallic black	CDP 81 SWM
metallic blue	CDP 81 BLM
metallic red	CDP 81 RTM
chrome	CDP 81 GCR
gold	CDP 81 GGO

External colour frame

for installation in frames ref.-no. CDP 58..

light grey	CDP 82 LG
yellow	CDP 82 GE
light green	CDP 82 LGN
stainless steel	CDP 82 ES
granite	CDP 82 GT
metallic green	CDP 82 GNM
metallic black	CDP 82 SWM
metallic blue	CDP 82 BLM
metallic red	CDP 82 RTM
chrome	CDP 82 GCR
gold	CDP 82 GGO



SL 500

Soft lines and an unusual material combination of acrylic glass and metal give this design range a distinctive character. This uniquely elegant appearance is underlined by the permanent level position of the rocker.





Switch-socket combination in silver-black



Rotary dimmer in gold-bronze



Room thermostat in white

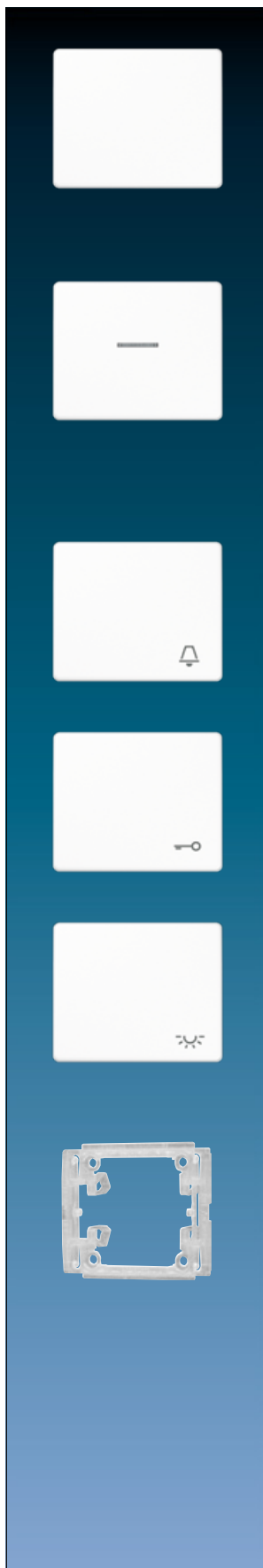
Colours and materials

Colours

white	
gold-bronze	
silver-black	

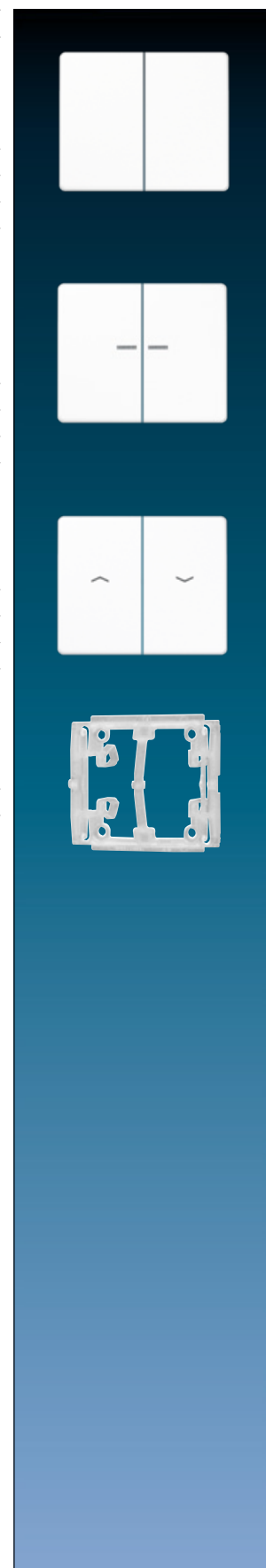
Material

Lacquered aluminium covers, acrylic glass frames backed with lacquered or anodised aluminium.



	Ref.-no.
1-gang rocker	
for switch insert ref.-no.: 501 U, 502 U, 503 U, 506 U, 507 U, 501-20 U, 506-20 U, 507-20 U	
for push switch insert ref.-no.: 502 TU, 506 TU, 507 TU	
for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U	
white	SL 590 WW
gold-bronze	SL 590 GB
black	SL 590 SW
1-gang rocker with lens	
for switch insert with indicator light	
ref.-no.: 502 KOU, 503 KOU, 506 KOU, 501-20 KOU, 502-20 KOU, 506-20 KOU	
for push switch insert with indicator light ref.-no.: 502 KOTU, 506 KOTU	
for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U	
white	SL 590 KO5 WW
gold-bronze	SL 590 KO5 GB
black	SL 590 KO5 SW
1-gang rocker with symbol "bell"	
for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U	
white	SL 590 K WW
gold-bronze	SL 590 K GB
black	SL 590 K SW
1-gang rocker with symbol "door"	
for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U	
white	SL 590 T WW
gold-bronze	SL 590 T GB
black	SL 590 T SW
1-gang rocker with symbol "light"	
for switch insert ref.-no.: 501 U, 502 U, 503 U, 506 U, 507 U, 501-20 U, 506-20 U, 507-20 U	
for push switch insert ref.-no.: 502 TU, 506 TU, 507 TU	
for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U	
white	SL 590 L WW
gold-bronze	SL 590 L GB
black	SL 590 L SW
Holder plate	
for frame fixing and 1-gang rocker bearing	
(Spare part)	
transparent	SL 90 HP

	Ref.-no.
2-gang rocker	
for switch insert ref.-no.: 505 U, 509 U	
for push switch insert ref.-no.: 505 TU, 509 TU	
for push-button insert ref.-no.: 535 U, 539 U	
white	SL 595 WW
gold-bronze	SL 595 GB
black	SL 595 SW
2-gang rocker with lens	
for switch insert ref.-no.: 505 U 5	
for switch insert with indicator light ref.-no.: 505 KOU 5	
for push-button insert ref.-no.: 535 U 5	
white	SL 595 KO5 WW
gold-bronze	SL 595 KO5 GB
black	SL 595 KO5 SW
2-gang rocker with arrow symbols	
for blind switch insert ref.-no.: 509 VU	
for blind push-button insert ref.-no.: 539 VU	
white	SL 595 P WW
gold-bronze	SL 595 P GB
black	SL 595 P SW
Holder plate	
for frame fixing and 2-gang rocker bearing (Spare part)	
transparent	SL 95 HP





Ref.-no.

Centre plate with knob

for rotary switch insert ref.-no.: 1101-4, 1101-20
 for timer switch insert ref.-no.: 11015, 11120-20
 for rotary blind switch insert ref.-no.: 1234.10, 1234.20

white	SL 1541 WW
gold-bronze	SL 1541 GB
black	SL 1541 SW

also for volume control WHD type: LST..JU UP and LR..JU UP
 and for program selection WHD type: PRO 3 JU..

SCHUKO® socket 16 A / 250 V ~

Screwless terminals for wires up to 2.5 mm²
 insert 90° rotatable
 Without claws: ref.-no. with additional "N", e.g.: ..520 N..

white	SL 520 WW
gold-bronze	SL 520 GB
black	SL 520 SW

**SCHUKO® socket 16 A / 250 V ~
 with enhanced contact protection (shutter)**

Screwless terminals for wires up to 2.5 mm²
 insert 90° rotatable
 Without claws: ref.-no. with additional "N", e.g.: ..520 N..

white	SL 520 KI WW
gold-bronze	SL 520 KI GB
black	SL 520 KI SW

SCHUKO® socket 16 A / 250 V ~

Screw terminals for wires up to 2.5 mm²
 insert 90° rotatable

white	SL 521 WW
gold-bronze	SL 521 GB
black	SL 521 SW

Ref.-no.

SCHUKO® socket 16 A / 250 V ~**with enhanced contact protection (shutter)**Screw terminals for wires up to 2.5 mm²

insert 90° rotatable

white	SL 521 KI WW
gold-bronze	SL 521 KI GB
black	SL 521 KI SW

Hinged lid

for sockets and devices with 50 x 50 mm cover

white	SL 590 KL WW
gold-bronze	SL 590 KL GB
black	SL 590 KL SW

For suitable 50 x 50 mm inserts see pages 22 – 26

Socket, 2-pole without earth 16 A / 250 V ~**with enhanced contact protection (shutter)**Screw terminals for wires up to 2.5 mm²

insert 90° rotatable

white	SL 511 KI WW
gold-bronze	SL 511 KI GB
black	SL 511 KI SW

Socket, French/Belgian system

2-pole + male earth pin, 16 A / 250 V ~

with enhanced contact protection (shutter)

Screw terminals for wires up to 2.5 mm² acc. to NFC 61-314

white	SL 521 FKI WW
gold-bronze	SL 521 FKI GB
black	SL 521 FKI SW

Centre plate with knob

for rotary dimmer inserts ref.-no.: 1730 DD, 1731 DD, 211 GDE

for satellite dimmer insert ref.-no.: 1733 DNE

for electronic potentiometer 1 – 10 V ref.-no.: 240-10

for DALI rotary controllers ref.-no.: 1740 DSTE, 1741 DSTE

black	SL 1540 SW
white	SL 1540 WW
gold-bronze	SL 1540 GB





Ref.-no.

Room thermostat (1-way contact)

1-pole NC contact 10 (4) A, AC 230 V ~, 50/60 Hz

white	TR SL 231 WW
gold-bronze	TR SL 231 GB
black	TR SL 231 SW

Room thermostat (1-way contact)

1-pole NC contact 10 (4) A, AC 24 V ~

white	TR SL 241 WW
gold-bronze	TR SL 241 GB
black	TR SL 241 SW

Room thermostat (2-way contact)

1-pole, 2-way, heating 10 (4) A, AC 230 V ~, 50/60 Hz

1-pole, 2-way, cooling 5 (2) A, AC 230 V ~, 50/60 Hz

For switching between heating/cooling the EBERLE terminal strip EV..H/K is necessary.

white	TR SL 236 WW
gold-bronze	TR SL 236 GB
black	TR SL 236 SW

Room thermostat (2-way contact)

1-pole, 2-way, heating 10 (4) A, AC 24 V ~

1-pole, 2-way, cooling 5 (2) A, AC 24 V ~

white	TR SL 246 WW
gold-bronze	TR SL 246 GB
black	TR SL 246 SW

Floor thermostat

1-pole NO contact 10 A, AC 230 V ~, 50/60 Hz

white	FTR SL 231 WW
gold-bronze	FTR SL 231 GB
black	FTR SL 231 SW

External temperature sensor

for room thermostat ref.-no. 1790 RTR, TR D .. 1790 ..

spare part for floor thermostat ref.-no. FTR .. 231 ..

The sensor cable can be connected using a bifilar cable of 1.5 mm² in diameter that is suitable for mains voltage. When installed in a cable duct or near high voltage current cables, a shielded cable must be used.

FF 7.8

Also suitable as external temperature sensor for the following KNX devices, ref.-no.: .. 2178 TS .., .. 2178 ORTS .., .. 5192 KRM TS D, .. 5194 KRM TS D, 2177 SV R, 23066 REGHE

Technical data

NTC sensor in plastic cap 7.8 mm Ø

Cable length: 4 m

Ambient temperature: -25 ... +70 °C

Special knob, manipulation-proof

white	MS TR 231 WW
bronze-beige	MS TR 231 BB
black	MS TR 231 SW

The set temperature can no longer be changed after the knob has been "locked".

Dismounting only possible with tool.

Ref.-no.

Centre plate

with supporting frame, screw fixing only

for 2 loudspeaker sockets up to 18.5 mm Ø or with flange mounting 22.5 mm hole spacing.

In connection with mounting plate ref.-no. 63 WBT (not included) for loudspeaker terminal ref.-no. LPK 63 RT/SW and RCA socket ref.-no. CIB 63.

Second hole can be broken out.

white	SL 562 WW
gold-bronze	SL 562 GB
black	SL 562 SW

Centre plate

for TV-FM sockets ref.-no.: EDU 04 F, GEDU 10, GEDU 15

white	SL 561 TV WW
gold-bronze	SL 561 TV GB
black	SL 561 TV SW

Centre plate

for SAT-TV-FM socket outlet inserts ref.-no.: EDA 302 F, GDA 313 F

for standard SAT-TV-FM sockets

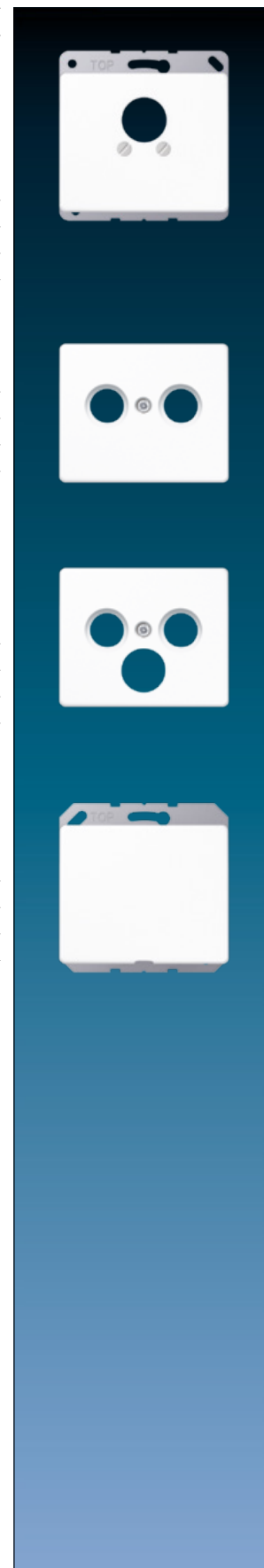
white	SL 561 SAT WW
gold-bronze	SL 561 SAT GB
black	SL 561 SAT SW

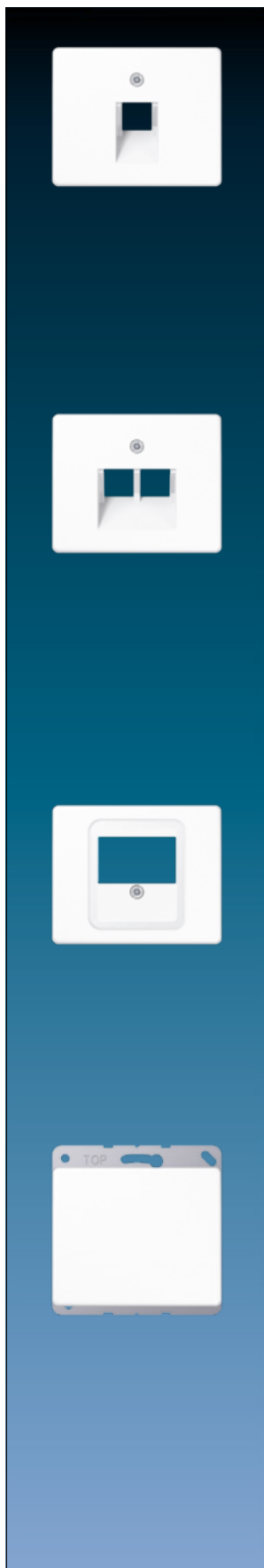
Cable outlet

with supporting frame, screw fixing only

opening for cables with max. 8 mm Ø

white	SL 590 A WW
gold-bronze	SL 590 A GB
black	SL 590 A SW





Ref.-no.

Centre plate

for 1-gang modular jack sockets
IAE/UAE sockets ref.-no.: UAE 8 UPO
for sockets Cat. 6 ref.-no.: UAE 8 UPOK6
(1 x 8-pol.)
for WLAN access point ref.-no.: WLAN-AC-UAE, WLAN-AC-POE-UAE

white	SL 569-1 UA WW
gold-bronze	SL 569-1 UA GB
black	SL 569-1 UA SW

Suitable inserts:

Rutenbeck: UAE 8(4) UPO, UAE 8(8) UPO, UAE-Cat.5e-8 UPO OK, UAE-real.Cat.6-8 UPO OK
Telegärtner: AMJ 45, UMJ 45 and ISDN 1 x RJ 45 (TYP 8)

Centre plate

for 2-gang modular jack sockets
IAE/UAE sockets ref.-no.: UAE 2 x 8 UPO, UAE 8-8 UPO
for sockets Cat. 6 ref.-no.: UAE 8-8 UPOK6
(2 x 8-pol.)
for media converter 2-gang ref.-no.: MK-POF-2UAE

white	SL 569-2 UA WW
gold-bronze	SL 569-2 UA GB
black	SL 569-2 UA SW

Suitable inserts:

METZ CONNECT (BTR): 1307441001-i or 1307441200-i; E-Dat design 8/8(8), Class E
Rutenbeck: UAE 8/8 (8/8) UPO, UAE 2x8 (8) UPO, UAE-Cat.5e-8/8 UPO OK, UAE-real.Cat.6-8/8 UPO OK
Telegärtner: AMJ 45, UMJ 45 and ISDN 2 x RJ 45 (TYP 8/8)

Centre plate (screw fixing)

for 2-gang supporting frame ref.-no.: UMA-MA2 in connection with universal modular jack socket type A
ref.-no.: UMA-CAT6A
for USB charger ref.-no.: USB 15 CA WW, USB 15 CA SW

white	SL 569 T WW
gold-bronze	SL 569 T GB
black	SL 569 T SW

for **Rutenbeck**: UM-MA 2 Up with UM-real Cat.6a A

for **Dätwyler**: flush-mounted modular jack socket (for 2 x MS-K 1/8 Cat.6a), ref.-no.: 440 012

USB charger see page 72

Blank centre plate (snap-on fixing)

with supporting frame, screw fixing only

white	SL 561 B WW
gold-bronze	SL 561 B GB
black	SL 561 B SW

The cover will be installed with snap-on fixing and enables individual cuttings or drilling holes.

Ref.-no.

**Frame in acrylic glass, with coloured metal foil
for vertical installation****white**

1-gang	85 x 85 mm	SL 581 WW
2-gang	85 x 156 mm	SL 582 WW
3-gang	85 x 227 mm	SL 583 WW
4-gang	85 x 298 mm	SL 584 WW
5-gang	85 x 370 mm	SL 585 WW

gold-bronze

1-gang	85 x 85 mm	SL 581 GB
2-gang	85 x 156 mm	SL 582 GB
3-gang	85 x 227 mm	SL 583 GB
4-gang	85 x 298 mm	SL 584 GB
5-gang	85 x 370 mm	SL 585 GB

silver

1-gang	85 x 85 mm	SL 581 SI
2-gang	85 x 156 mm	SL 582 SI
3-gang	85 x 227 mm	SL 583 SI
4-gang	85 x 298 mm	SL 584 SI
5-gang	85 x 370 mm	SL 585 SI

**Frame in acrylic glass, with coloured metal foil
for horizontal installation****white**

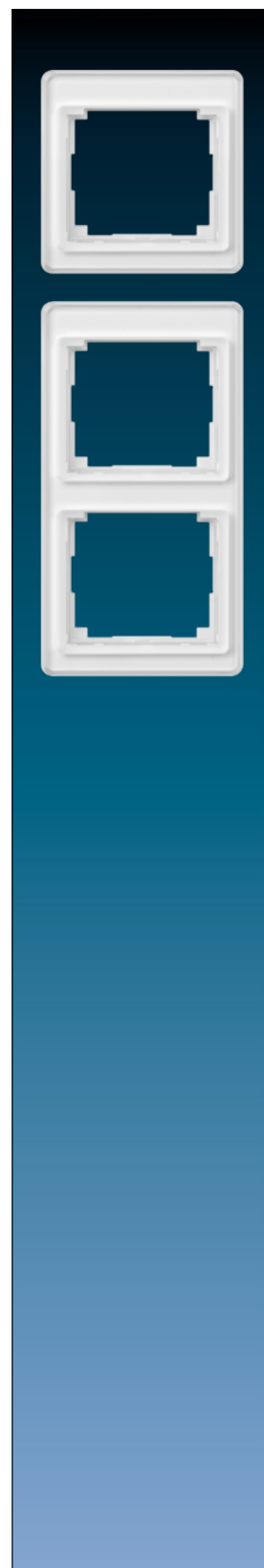
2-gang	156 x 85 mm	SL 5820 WW
3-gang	227 x 85 mm	SL 5830 WW
4-gang	298 x 85 mm	SL 5840 WW
5-gang	370 x 85 mm	SL 5850 WW

gold-bronze

2-gang	156 x 85 mm	SL 5820 GB
3-gang	227 x 85 mm	SL 5830 GB
4-gang	298 x 85 mm	SL 5840 GB
5-gang	370 x 85 mm	SL 5850 GB

silver

2-gang	156 x 85 mm	SL 5820 SI
3-gang	227 x 85 mm	SL 5830 SI
4-gang	298 x 85 mm	SL 5840 SI
5-gang	370 x 85 mm	SL 5850 SI

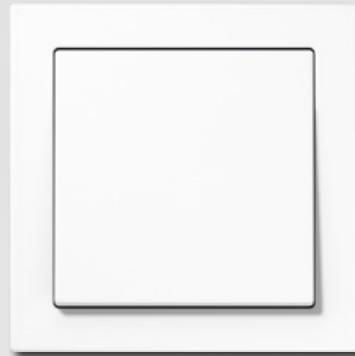




LS range



LS 990 in matt snow white



LS DESIGN in white



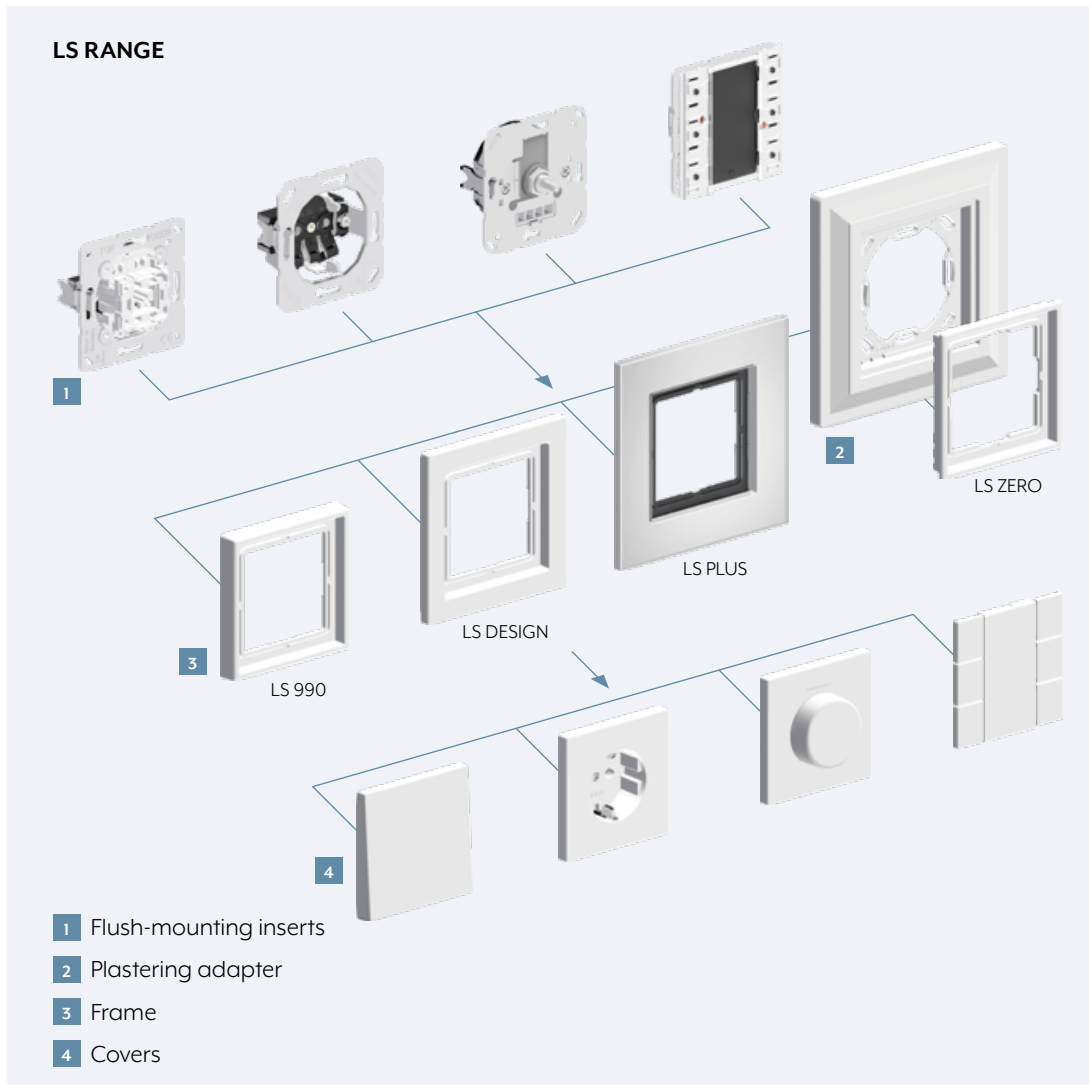
LS ZERO in white



LS PLUS in white with glass frame

The LS range clearly shows its commitment to the classic square without compromises. The design based on the Bauhaus design has a timeless effect. In its reduction to the essential, this range relies on the quality of genuine materials that further emphasise the clarity of the shape. Narrow or wide frames round off the straight lines in style.





LS range – modular system





The wide product palette of the LS range meets all technical and design requirements in private and commercial construction. Lighting, blind and temperature control, door communication, multimedia control, eNet SMART HOME and KNX can all be implemented from a single source. The JUNG modular system combines the inserts with the respective appropriate cover and design frame to form a functional unit.

Colours and materials



Duroplastic (scratch-proof), glossy

ivory	similar to RAL 1013	
white	similar to RAL 9016	
light grey	similar to RAL 7035	
black	similar to RAL 9005	

Thermoplastic (breakproof) lacquered

matt snow white	
matt graphite black	










Selected items are also available in other colours

green	similar to RAL 6029	
orange	similar to RAL 2004	

Glass

Tempered safety glass (TSG),
colours: black, white, matt white

Metal designs

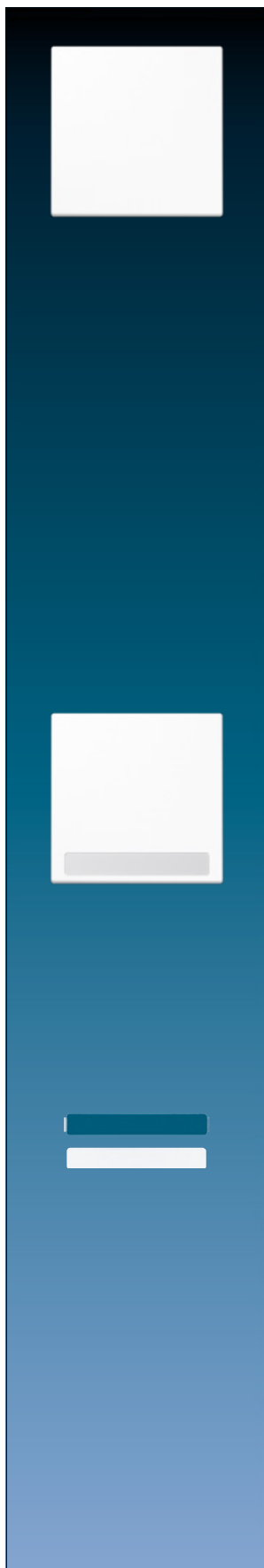
aluminium AlMg1 natural, matt etched	
stainless steel 1.4303 X4 CrNi 18-12 blasted with glass beads	
anthracite (lacquered aluminium)	
dark (varnished aluminium)	
chrome (chrome-plated metal)	
gold-coloured (coloured metal, PVD coated)	
gold (gold-plated metal)	
classic brass CuZn37, bright, hand-brushed, 240 grain, clear varnish on both sides (corrosion protection)	
antique brass CuZn37, hand-brushed, traditionally coloured, brightened by hand, clear lacquer on both sides (corrosion protection)	

Covers	516
Sockets	527
LB Management	551
eNet	555
Temperature Management	560
SAT / TV	565
Data connectors	570
Telephone	572

The following products are available in the design of the LS ranges

Multimedia connection systems	47
USB charger	60
Smart Radio DAB+	76
Hospital installations	94
Hotel installations	104
Plug & Light	138
Door communication	144
F 50	660
F 40	670
F 10	680

LS range



Ref.-no.

1-gang rocker

for switch insert ref.-no.: 501 U, 502 U, 503 U, 506 U, 507 U, 501-20 U, 506-20 U, 507-20 U

for push switch insert ref.-no.: 502 TU, 506 TU, 507 TU

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U

for multi switch insert ref.-no.: 531-41 U (not metal versions)

Duroplastic (scratch-proof) glossy

ivory	IP P	LS 990
white	IP P	LS 990 WW
light grey	IP P	LS 990 LG
black	IP	LS 990 SW

matt lacquered

matt snow white	IP	LS 990 WWM
matt graphite black	IP	LS 990 SWM

metal versions

aluminium	IP P L	AL 2990
stainless steel	IP L	ES 2990
anthracite (aluminium lacquered)	IP	AL 2990 AN
dark (aluminium lacquered)	IP	AL 2990 D
chrome		GCR 2990
gold-coloured		GO 2990
gold-plated		LS 990 GGO
classic brass	P	ME 2990 C
antique brass		ME 2990 AT

For illuminated inserts use rocker with lens ref.-no.: ..KO...

1-gang rocker with inscription field 9 x 58 mm

for switch insert ref.-no.: 501 U, 502 U, 503 U, 506 U, 507 U, 501-20 U, 506-20 U, 507-20 U

for push switch insert ref.-no.: 502 TU, 506 TU, 507 TU

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U

for multi switch insert ref.-no.: 531-41 U

Duroplastic (scratch-proof) glossy

ivory	IP P	LS 990 NA
white	IP P	LS 990 NA WW
light grey	IP P	LS 990 NA LG
black	IP	LS 990 NA SW

matt lacquered

matt snow white	IP	LS 990 NA WWM
matt graphite black	IP	LS 990 NA SWM

For illuminated inserts use rocker with lens ref.-no.: ..KO...

Transparent cover with paper inlay

for inscription field 9 x 58 mm

(Spare part)

paper inlay white	CD 90 NA
-------------------	----------

Ref.-no.








1-gang rocker with inscription field 12 x 55 mm

for switch insert ref.-no.: 501 U, 502 U, 503 U, 506 U, 507 U, 501-20 U, 506-20 U, 507-20 U

for push switch insert ref.-no.: 502 TU, 506 TU, 507 TU

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U

metal versions

aluminium	  	AL 2990 NA
stainless steel		ES 2990 NA
anthracite (aluminium lacquered)		AL 2990 NA AN
dark (aluminium lacquered)		AL 2990 NA D
classic brass		ME 2990 NA C
antique brass		ME 2990 NA AT

For illuminated inserts use rocker with lens ref.-no.: ..KO...

Transparent cover

for inscription field 12 x 55 mm

(Spare part)

M 20 NA

1-gang rocker with lens






for switch insert with indicator light

ref.-no.: 502 KOU, 503 KOU, 506 KOU, 501-20 KOU, 502-20 KOU, 506-20 KOU

for push switch insert with indicator light ref.-no.: 502 KOTU, 506 KOTU

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U



Duroplastic (scratch-proof) glossy

ivory	 	LS 990 KO5
white		LS 990 KO5 WW
light grey		LS 990 KO5 LG
black		LS 990 KO5 SW

matt lacquered

matt snow white		LS 990 KO5 WWM
matt graphite black		LS 990 KO5 SWM

metal versions

aluminium	  	AL 2990 KO5
stainless steel		ES 2990 KO5
anthracite (aluminium lacquered)		AL 2990 KO5 AN
dark (aluminium lacquered)		AL 2990 KO5 D
chrome		GCR 2990 KO5
gold-coloured		GO 2990 KO5
gold-plated		LS 990 KO5 GGO
classic brass		ME 2990 KO5 C
antique brass		ME 2990 KO5 AT

1-gang rocker with lens






for switch insert with indicator light

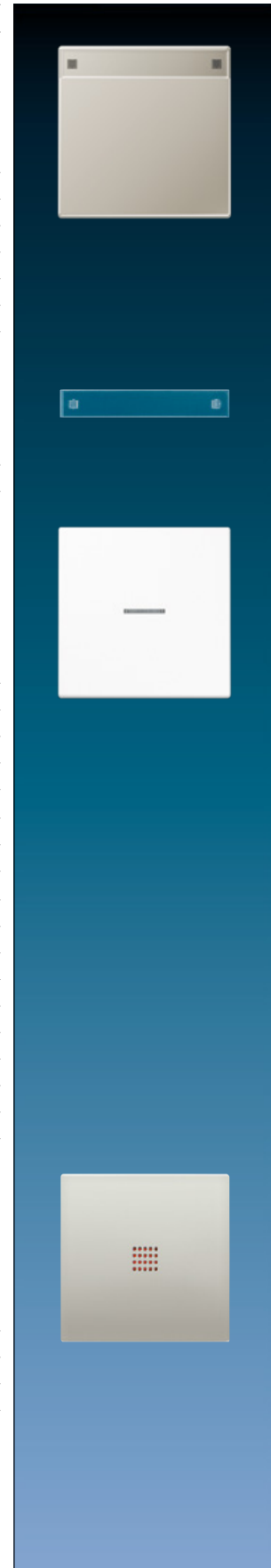
ref.-no.: 502 KOU, 503 KOU, 506 KOU, 501-20 KOU, 502-20 KOU, 506-20 KOU

for push switch insert with indicator light ref.-no.: 502 KOTU, 506 KOTU

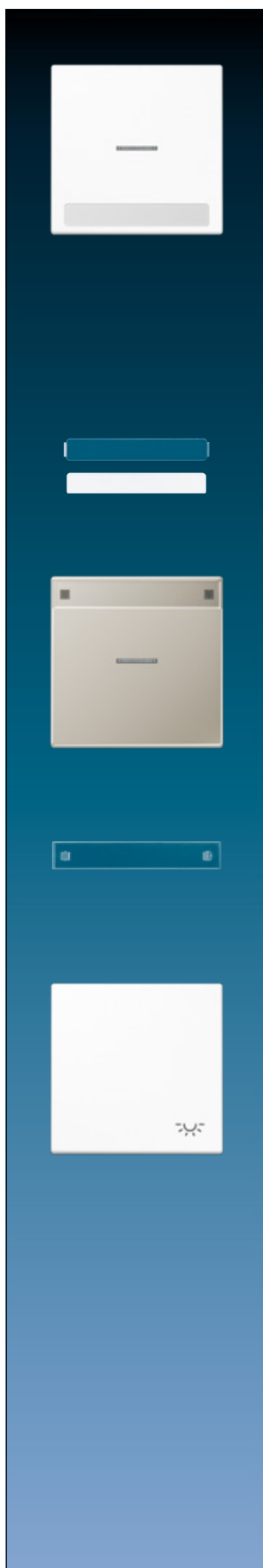
for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

metal versions

aluminium	  	AL 2990 KO2
stainless steel		ES 2990 KO2
anthracite (aluminium lacquered)		AL 2990 KO2 AN



LS range



Ref.-no.

1-gang rocker with lens and inscription field 9 x 58 mm

for switch insert with indicator light

ref.-no.: 502 KOU, 503 KOU, 506 KOU, 501-20 KOU, 502-20 KOU, 506-20 KOU

for push switch insert with indicator light ref.-no.: 502 KOTU, 506 KOTU

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

Duroplastic (scratch-proof) glossy

ivory	IP P	LS 990 NAKO5
white	IP P	LS 990 NAKO5 WW
light grey	IP P	LS 990 NAKO5 LG
black	IP	LS 990 NAKO5 SW

matt lacquered

matt snow white	IP	LS 990 NAKO5 WWM
matt graphite black	IP	LS 990 NAKO5 SWM

Transparent cover with paper inlay

for inscription field 9 x 58 mm

(Spare part)

paper inlay white	CD 90 NA
-------------------	----------

1-gang rocker with lens and inscription field 12 x 55 mm

for switch insert with indicator light

ref.-no.: 502 KOU, 503 KOU, 506 KOU, 501-20 KOU, 502-20 KOU, 506-20 KOU

for push switch insert with indicator light ref.-no.: 502 KOTU, 506 KOTU

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

metal versions

aluminium	IP P L	AL 2990 NAKO5
stainless steel	IP L	ES 2990 NAKO5
anthracite (aluminium lacquered)	IP	AL 2990 NAKO5 AN

Transparent cover

for inscription field 12 x 55 mm

(Spare part)

M 20 NA

1-gang rocker with symbol "light"

for switch insert ref.-no.: 501 U, 502 U, 503 U, 506 U, 507 U, 501-20 U, 506-20 U, 507-20 U

for push switch insert ref.-no.: 502 TU, 506 TU, 507 TU

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U

Duroplastic (scratch-proof) glossy

ivory	IP	LS 990 L
white	IP	LS 990 L WW
light grey	IP	LS 990 L LG
black	IP	LS 990 L SW

matt lacquered

matt snow white	IP	LS 990 L WWM
matt graphite black	IP	LS 990 L SWM

metal versions

aluminium	IP	AL 2990 L
stainless steel	IP	ES 2990 L
anthracite (aluminium lacquered)	IP	AL 2990 L AN
dark (aluminium lacquered)	IP	AL 2990 L D
chrome		GCR 2990 L
classic brass		ME 2990 L C
antique brass		ME 2990 L AT

Ref.-no.

1-gang rocker with symbol "light", with lens

for switch insert with indicator light

ref.-no.: 502 KOU, 503 KOU, 506 KOU, 501-20 KOU, 502-20 KOU, 506-20 KOU

for push switch insert with indicator light ref.-no.: 502 KOTU, 506 KOTU

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

Duroplastic (scratch-proof) glossy

ivory	IP	LS 990 KO5 L
white	IP	LS 990 KO5 L WW
black	IP	LS 990 KO5 L SW

matt lacquered

matt snow white	IP	LS 990 KO5 L WWM
matt graphite black	IP	LS 990 KO5 L SWM

metal versions

aluminium	IP	AL 2990 KO5 L
stainless steel	IP	ES 2990 KO5 L
anthracite (aluminium lacquered)	IP	AL 2990 KO5 L AN
dark (aluminium lacquered)	IP	AL 2990 KO5 L D
chrome		GCR 2990 KO5 L
classic brass		ME 2990 KO5 L C
antique brass		ME 2990 KO5 L AT

1-gang rocker with symbol "bell"

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U

Duroplastic (scratch-proof) glossy

ivory	IP	LS 990 K
white	IP	LS 990 K WW
light grey	IP	LS 990 K LG
black	IP	LS 990 K SW

matt lacquered

matt snow white	IP	LS 990 K WWM
matt graphite black	IP	LS 990 K SWM

metal versions

aluminium	IP	AL 2990 K
stainless steel	IP	ES 2990 K
anthracite (aluminium lacquered)	IP	AL 2990 K AN
dark (aluminium lacquered)	IP	AL 2990 K D
chrome		GCR 2990 K
classic brass		ME 2990 K C
antique brass		ME 2990 K AT

1-gang rocker with symbol "bell", with lens

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

Duroplastic (scratch-proof) glossy

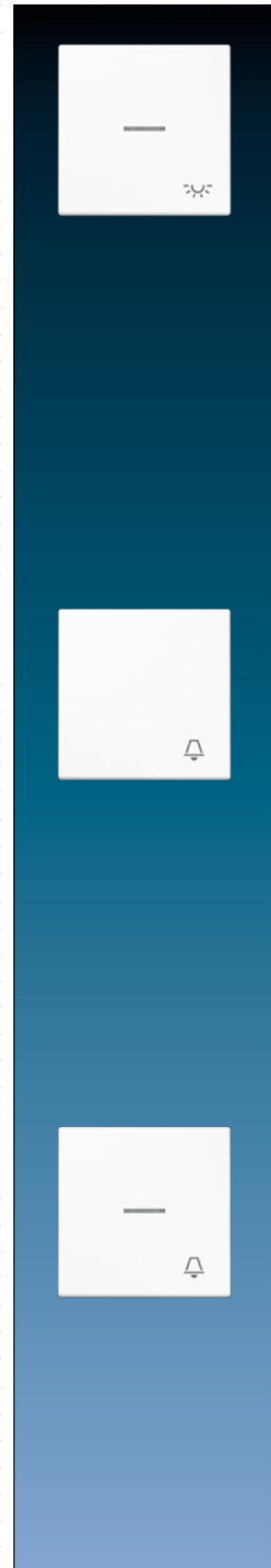
ivory	IP	LS 990 KO5 K
white	IP	LS 990 KO5 K WW
black	IP	LS 990 KO5 K SW

matt lacquered

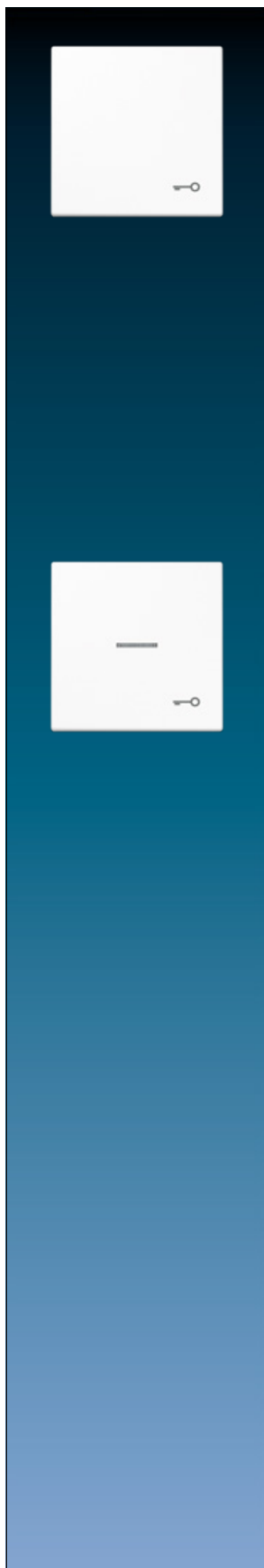
matt snow white	IP	LS 990 KO5 K WWM
matt graphite black	IP	LS 990 KO5 K SWM

metal versions

aluminium	IP	AL 2990 KO5 K
stainless steel	IP	ES 2990 KO5 K
anthracite (aluminium lacquered)	IP	AL 2990 KO5 K AN
dark (aluminium lacquered)	IP	AL 2990 KO5 K D
chrome		GCR 2990 KO5 K
classic brass		ME 2990 KO5 K C
antique brass		ME 2990 KO5 K AT



LS range



Ref.-no.

1-gang rocker with symbol "door"

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U

Duroplastic (scratch-proof) glossy

ivory	IP	LS 990 T
white	IP	LS 990 T WW
light grey	IP	LS 990 T LG
black	IP	LS 990 T SW

matt lacquered

matt snow white	IP	LS 990 T WWM
matt graphite black	IP	LS 990 T SWM

metal versions

aluminium	IP	AL 2990 T
stainless steel	IP	ES 2990 T
anthracite (aluminium lacquered)	IP	AL 2990 T AN
dark (aluminium lacquered)	IP	AL 2990 T D
chrome		GCR 2990 T
classic brass		ME 2990 T C
antique brass		ME 2990 T AT

1-gang rocker with symbol "door", with lens

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

Duroplastic (scratch-proof) glossy

ivory	IP	LS 990 KO5 T
white	IP	LS 990 KO5 T WW
black	IP	LS 990 KO5 T SW

matt lacquered

matt snow white	IP	LS 990 KO5 T WWM
matt graphite black	IP	LS 990 KO5 T SWM

metal versions

aluminium	IP	AL 2990 KO5 T
stainless steel	IP	ES 2990 KO5 T
anthracite (aluminium lacquered)	IP	AL 2990 KO5 T AN
dark (aluminium lacquered)	IP	AL 2990 KO5 T D
chrome		GCR 2990 KO5 T
classic brass		ME 2990 KO5 T C
antique brass		ME 2990 KO5 T AT

Ref.-no.

1-gang rocker with embossed symbol "light"

for switch insert ref.-no.: 501 U, 502 U, 503 U, 506 U, 507 U, 501-20 U, 506-20 U, 507-20 U

for push switch insert ref.-no.: 502 TU, 506 TU, 507 TU

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U

metal versions

aluminium	IP	AL 2990 LP
stainless steel	IP	ES 2990 LP

1-gang rocker with embossed symbol "light", with lens

for switch insert with indicator light

ref.-no.: 502 KOU, 503 KOU, 506 KOU, 501-20 KOU, 502-20 KOU, 506-20 KOU

for push switch insert with indicator light ref.-no.: 502 KOTU, 506 KOTU

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

metal versions

aluminium	IP	AL 2990 KO5 LP
stainless steel	IP	ES 2990 KO5 LP

1-gang rocker with embossed symbol "bell"

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U

metal versions

aluminium	IP	AL 2990 KP
stainless steel	IP	ES 2990 KP

1-gang rocker with embossed symbol "bell", with lens

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

metal versions

aluminium	IP	AL 2990 KO5 KP
stainless steel	IP	ES 2990 KO5 KP

1-gang rocker with embossed symbol "door"

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U

metal versions

aluminium	IP	AL 2990 TP
stainless steel	IP	ES 2990 TP

1-gang rocker with embossed symbol "door", with lens

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

metal versions

aluminium	IP	AL 2990 KO5 TP
stainless steel	IP	ES 2990 KO5 TP

Holder plate

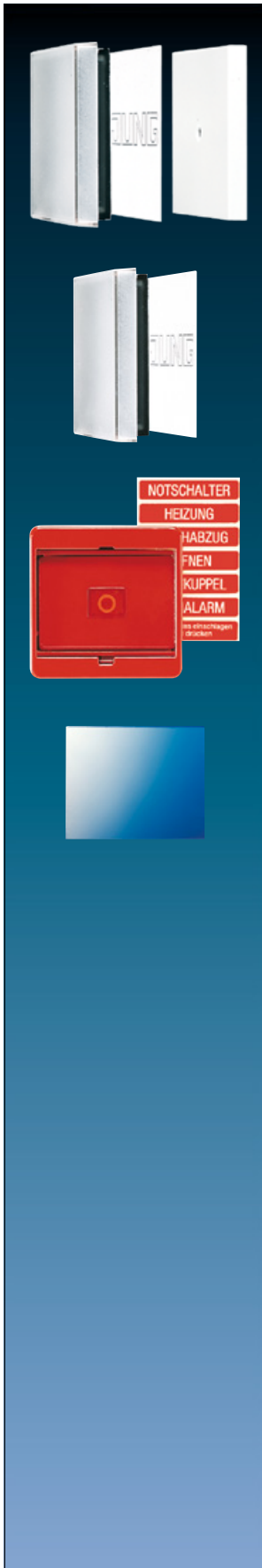
for frame fixing and 1-gang rocker bearing

(Spare part)

black		CD 90 HP
-------	--	----------



LS range



Ref.-no.

1-gang rocker, transparent

for switch insert ref.-no.: 501 U, 502 U, 503 U, 506 U, 507 U, 501-20 U, 506-20 U, 507-20 U

for push switch insert ref.-no.: 502 TU, 506 TU, 507 TU

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U

for individual text or decorative inlets (e.g. wall paper)

Thermoplastic (breakproof) high-gloss

inscription field 66 x 66 mm

LS 990 NAGL

Plastic cover with paper inlay

for inscription field 66 x 66 mm

(Spare part)

Thermoplastic (breakproof) high-gloss

paper inlay white

LS 990 NA GL PL

1-gang rocker with glass plate

with rocker and red lens

for all 1-gang switch/push-button inserts (except push switch insert)

Thermoplastic (breakproof) high-gloss

red similar RAL 3000

561 GL RT

blue similar RAL 5015

561 GL BL

yellow similar RAL 1004

561 GL GE

Glass plate

64 x 53 x 1 mm (W x H x D)








60 GL

Ref.-no.

2-gang rocker

for switch insert ref.-no.: 505 U, 509 U
 for push switch insert ref.-no.: 505 TU, 509 TU
 for push-button insert ref.-no.: 535 U, 539 U
 for multi switch insert ref.-no.: 532-4 U (not metal versions)









Duroplastic (scratch-proof) glossy

ivory	 	LS 995
white	 	LS 995 WW
light grey	 	LS 995 LG
black		LS 995 SW

matt lacquered

matt snow white		LS 995 WWM
matt graphite black		LS 995 SWM

metal versions






aluminium	  	AL 2995
stainless steel	 	ES 2995
anthracite (aluminium lacquered)		AL 2995 AN
dark (aluminium lacquered)		AL 2995 D
chrome		GCR 2995
gold-coloured		GO 2995
gold-plated		LS 995 GGO
classic brass		ME 2995 C
antique brass		ME 2995 AT

For illuminated inserts use rocker with lens ref.-no.: ..KO...



2-gang rocker with lens

for switch insert ref.-no.: 505 U 5
 for switch insert with indicator light ref.-no.: 505 KOU 5
 for push-button insert ref.-no.: 535 U 5









Duroplastic (scratch-proof) glossy

ivory	 	LS 995 KO5
white	 	LS 995 KO5 WW
light grey	 	LS 995 KO5 LG
black		LS 995 KO5 SW

matt lacquered

matt snow white		LS 995 KO5 WWM
matt graphite black		LS 995 KO5 SWM





metal versions

aluminium	  	AL 2995 KO5
stainless steel	 	ES 2995 KO5
anthracite (aluminium lacquered)		AL 2995 KO5 AN
dark (aluminium lacquered)		AL 2995 KO5 D
chrome		GCR 2995 KO5
gold-coloured		GO 2995 KO5
classic brass		ME 2995 KO5 C
antique brass		ME 2995 KO5 AT

2-gang rocker with inscription field 9 x 27 mm

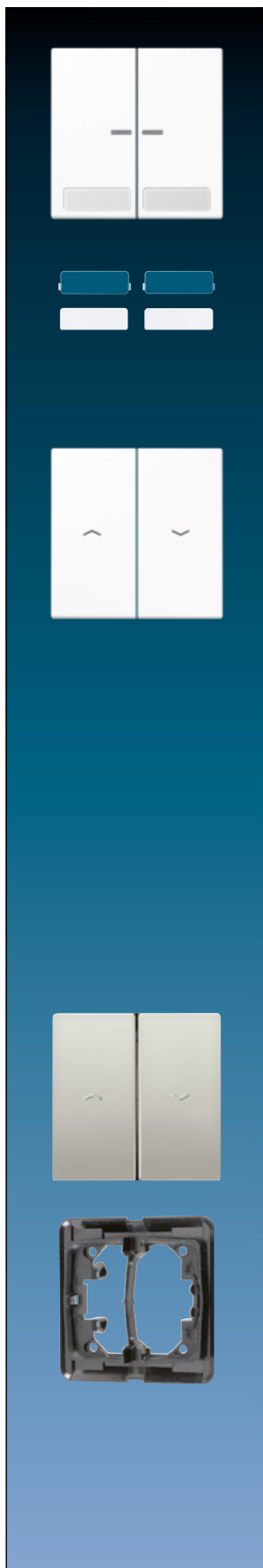
for switch insert ref.-no.: 505 U, 509 U
 for push switch insert ref.-no.: 505 TU, 509 TU
 for push-button insert ref.-no.: 535 U, 539 U
 for multi switch insert ref.-no.: 532-4 U

Duroplastic (scratch-proof) glossy

ivory	 	LS 995 NA
white	 	LS 995 NA WW



LS range



Ref.-no.

2-gang rocker with lens and inscription fields 9 x 27 mm

for switch insert ref.-no.: 505 U 5

for switch insert with indicator light ref.-no.: 505 KOU 5

for push-button insert ref.-no.: 535 U 5

Duroplastic (scratch-proof) glossy

ivory



LS 995 NA KO5

white



LS 995 NA KO5 WW

Transparent cover with paper inlay

for inscription field 9 x 27 mm

(Spare part)

A set of two covers

paper inlay white

CD 95 NA

2-gang rocker with arrow symbols

for blind switch insert ref.-no.: 509 VU

for blind push-button insert ref.-no.: 539 VU

Duroplastic (scratch-proof) glossy

ivory



LS 995 P

white



LS 995 P WW

light grey



LS 995 P LG

black



LS 995 P SW

matt lacquered

matt snow white



LS 995 P WWM

matt graphite black



LS 995 P SWM

metal versions

aluminium



AL 2995 P

stainless steel



ES 2995 P

anthracite (aluminium lacquered)



AL 2995 P AN

dark (aluminium lacquered)



AL 2995 P D

chrome

GCR 2995 P

gold-coloured

GO 2995 P

classic brass

ME 2995 P C

antique brass

ME 2995 P AT

2-gang rocker with embossed arrow symbols

for blind switch insert ref.-no.: 509 VU

for blind push-button insert ref.-no.: 539 VU

metal versions

aluminium



AL 2995 PP

stainless steel



ES 2995 PP

Holder plate

for frame fixing and 2-gang rocker bearing

(Spare part)

black





CD 95 HP

Ref.-no.

3-gang rocker

for 3-gang switch insert ref.-no.: 5301 EU, 5306 EU





Thermoplastic (breakproof) high-gloss

ivory	 LS 993 BF
white	 LS 993 BF WW
light grey	 LS 993 BF LG
black	 LS 993 BF SW

matt lacquered

matt snow white	LS 993 BF WWM
matt graphite black	LS 993 BF SWM

metal versions

aluminium	  AL 993
stainless steel	 ES 993
anthracite (aluminium lacquered)	AL 993 AN
dark (aluminium lacquered)	AL 993 D
chrome	GCR 993
gold-coloured	GO 993
classic brass	 ME 993 C
antique brass	ME 993 AT

Holder plate

for frame fixing and 3-gang rocker bearing
(Spare part)









black	LS 93 HP
-------	-----------------

Centre plate



for key switch inserts ref.-no.: 104.28, 134.18, 134.28, 133.18, 138.18, 106.28

for key switch inserts IP 44 ref.-no.: CD 104.18 WU, CD 134.18 WU, CD 133.18 WU, CD 106.18 WU

Thermoplastic (breakproof) high-gloss

ivory	  LS 928
white	  LS 928 WW
light grey	  LS 928 LG
black	  LS 928 SW

matt lacquered

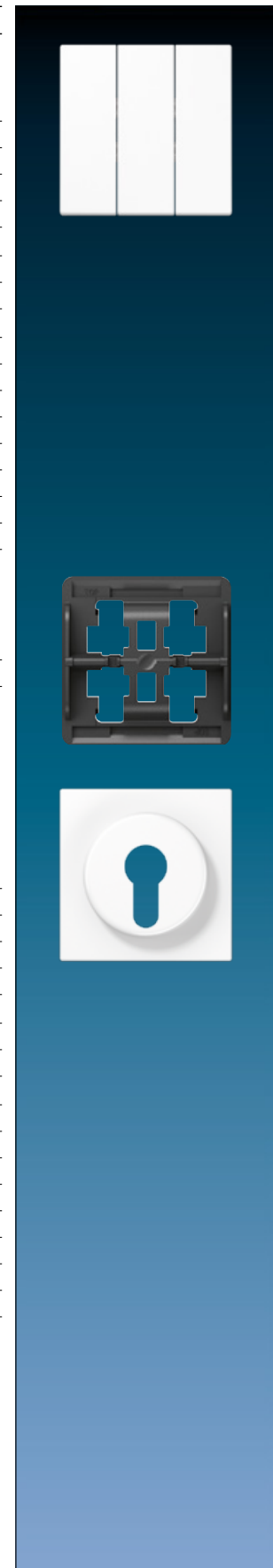
matt snow white	 LS 928 WWM
matt graphite black	 LS 928 SWM

metal versions

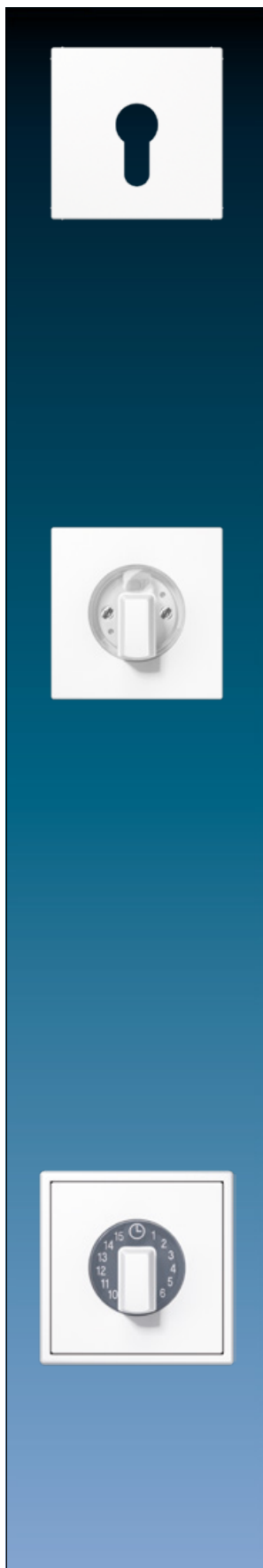
aluminium	   AL 2928
stainless steel	  ES 2928
anthracite (aluminium lacquered)	 AL 2928 AN
dark (aluminium lacquered)	 AL 2928 D
chrome	GCR 2928
gold-coloured	GO 2928
classic brass	 ME 2928 C
antique brass	ME 2928 AT

One escutcheon plate with symbols and one without symbols included in delivery.

Height of escutcheon plate: 11 mm (thermoplastic) or 17.5 mm (metal versions)



LS range



Ref.-no.

Centre plate

for key switch inserts ref.-no.: 104.15, 134.15, 133.15, 106.15

Thermoplastic (breakproof) high-gloss

ivory		LS 925
white		LS 925 WW
light grey		LS 925 LG
black		LS 925 SW

matt lacquered

matt snow white	LS 925 WWM
matt graphite black	LS 925 SWM

metal versions

aluminium		AL 2925
stainless steel		ES 2925
anthracite (aluminium lacquered)		AL 2925 AN
dark (aluminium lacquered)		AL 2925 D
classic brass		ME 2925 C
antique brass		ME 2925 AT

Centre plate with knob

for rotary switch insert ref.-no.: 1101-4, 1101-20

for timer switch insert ref.-no.: 11015, 11120-20

for rotary blind switch insert ref.-no.: 1234.10, 1234.20

Duroplastic (scratch-proof) glossy

ivory		LS 1941
white		LS 1941 WW
light grey		LS 1941 LG
black		LS 1941 SW

matt lacquered

matt snow white		LS 1941 WWM
matt graphite black		LS 1941 SWM

metal versions

aluminium		AL 1941
stainless steel		ES 1941
anthracite (aluminium lacquered)		AL 1941 AN
dark (aluminium lacquered)		AL 1941 D
chrome		GCR 1941
gold-coloured		GO 1941
classic brass		ME 1941 C
antique brass		ME 1941 AT

also for volume control WHD type: LST..JU UP and LR..JU UP

and for program selection WHD type: PRO 3 JU..

Timer switch 16 AX / 250 V ~

screw terminals for wires up to 4 mm²

screw fixing only, without claws

incl. 1-gang frame and scale disc

accuracy ± 10 %

Duroplastic (scratch-proof) glossy

white	2-pole, 1-way	max. 30 minutes		LS 11030 WW
	1-pole, 2-way	max. 30 minutes		LS 11030-20 WW
	2-pole, 1-way	max. 60 minutes		LS 11060 WW
	2-pole, 1-way	max. 120 minutes		LS 11120 WW
	1-pole, 2-way	max. 120 minutes		LS 11120-20 WW
	2-pole, 1-way	max. 240 minutes		LS 11240 WW
	2-pole, 1-way	max. 360 minutes		LS 11360 WW
	2-pole, 1-way	max. 720 minutes		LS 11720 WW

Ref.-no.

SCHUKO® socket 16 A / 250 V ~

screwless terminals for wires up to 2.5 mm²

without claws: ref.-no. with additional "N", e.g.: ..1520 N..

With screw terminals: ref.-no. ..1521..

Supporting frame, claws and claw screws are integrated into the earth protection.

Duroplastic (scratch-proof) glossy

ivory	P	LS 1520
white	P	LS 1520 WW
light grey	P	LS 1520 LG
black		LS 1520 SW

Thermoplastic (breakproof) high-gloss

white		LS 1520 BF WW
green		LS 1520 BF GN
orange		LS 1520 BF O
red		LS 1520 BF RT

matt lacquered

matt snow white		LS 1520 WWM
matt graphite black		LS 1520 SWM

metal versions

aluminium	P L	AL 1520
stainless steel	L	ES 1520
anthracite (aluminium lacquered)		AL 1520 AN
dark (aluminium lacquered)		AL 1520 D
gold-coloured		GO 1520
classic brass	P	ME 1520 C
antique brass		ME 1520 AT

SCHUKO® socket 16 A / 250 V ~

with enhanced contact protection (shutter)

screwless terminals for wires up to 2.5 mm²

without claws: ref.-no. with additional "N", e.g.: ..1520 N..

With screw terminals: ref.-no. ..1521..

Supporting frame, claws and claw screws are integrated into the earth protection.

Duroplastic (scratch-proof) glossy

ivory	P	LS 1520 KI
white	P	LS 1520 KI WW
light grey	P	LS 1520 KI LG
black		LS 1520 KI SW

Thermoplastic (breakproof) high-gloss

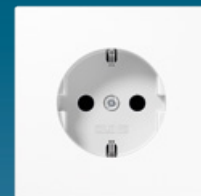
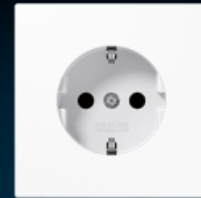
white		LS 1520 BFKI WW
green		LS 1520 BFKI GN
orange		LS 1520 BFKI O
red		LS 1520 BFKI RT

matt lacquered

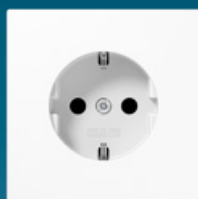
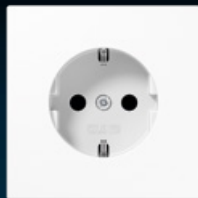
matt snow white		LS 1520 KI WWM
matt graphite black		LS 1520 KI SWM

metal versions

aluminium	P L	AL 1520 KI
stainless steel	L	ES 1520 KI
anthracite (aluminium lacquered)		AL 1520 KI AN
dark (aluminium lacquered)		AL 1520 KI D
chrome		GCR 1520 KI
gold-coloured		GO 1520 KI
gold-plated		LS 1520 KI GGO
classic brass	P	ME 1520 KI C
antique brass		ME 1520 KI AT



LS range



Ref.-no.

SCHUKO® socket 16 A / 250 V ~

screw terminals for wires up to 2.5 mm²

without claws: ref.-no. with additional "N", e.g.: ..1521 N..

Supporting frame, claws and claw screws are integrated into the earth protection.

Duroplastic (scratch-proof) glossy

ivory	P	LS 1521
white	P	LS 1521 WW
light grey	P	LS 1521 LG
black		LS 1521 SW

Thermoplastic (breakproof) high-gloss

orange	LS 1521 BF O
red	LS 1521 BF RT

matt lacquered

matt snow white	LS 1521 WWM
matt graphite black	LS 1521 SWM

metal versions

aluminium	P L	AL 1521
stainless steel	L	ES 1521
anthracite (aluminium lacquered)		AL 1521 AN
dark (aluminium lacquered)		AL 1521 D
gold-coloured		GO 1521
classic brass	P	ME 1521 C
antique brass		ME 1521 AT

SCHUKO® socket 16 A / 250 V ~

with enhanced contact protection (shutter)

screw terminals for wires up to 2.5 mm²

without claws: ref.-no. with additional "N", e.g.: ..1521 N..

Supporting frame, claws and claw screws are integrated into the earth protection.

Duroplastic (scratch-proof) glossy

ivory	P	LS 1521 KI
white	P	LS 1521 KI WW
light grey	P	LS 1521 KI LG
black		LS 1521 KI SW

Thermoplastic (breakproof) high-gloss

orange	LS 1521 BFKI O
--------	----------------

matt lacquered

matt snow white	LS 1521 KI WWM
matt graphite black	LS 1521 KI SWM

metal versions

aluminium	P L	AL 1521 KI
stainless steel	L	ES 1521 KI
anthracite (aluminium lacquered)		AL 1521 KI AN
dark (aluminium lacquered)		AL 1521 KI D
chrome		GCR 1521 KI
gold-coloured		GO 1521 KI
gold-plated		LS 1521 KI GGO
classic brass	P	ME 1521 KI C
antique brass		ME 1521 KI AT

Ref.-no.

SCHUKO® socket 16 A / 250 V ~

with inscription field 9 x 58 mm

screwless terminals for wires up to 2.5 mm²

without claws: ref.-no. with additional "N", e.g.: ..1520 N..

With screw terminals: ref.-no. ..1521..

Supporting frame, claws and claw screws are integrated into the earth protection.

Duroplastic (scratch-proof) glossy

ivory	P	LS 1520 NA
white	P	LS 1520 NA WW
light grey	P	LS 1520 NA LG
black		LS 1520 NA SW

Thermoplastic (breakproof) high-gloss

white		LS 1520 BFNA WW
green		LS 1520 BFNA GN
orange		LS 1520 BFNA O
red		LS 1520 BFNA RT

matt lacquered

matt snow white		LS 1520 NA WWM
matt graphite black		LS 1520 NA SWM

SCHUKO® socket 16 A / 250 V ~

with enhanced contact protection (shutter)

with inscription field 9 x 58 mm

screwless terminals for wires up to 2.5 mm²

without claws: ref.-no. with additional "N", e.g.: ..1520 N..

With screw terminals: ref.-no. ..1521..

Supporting frame, claws and claw screws are integrated into the earth protection.

Duroplastic (scratch-proof) glossy

ivory	P	LS 1520 KINA
white	P	LS 1520 KINA WW
light grey	P	LS 1520 KINA LG
black		LS 1520 KINA SW

Thermoplastic (breakproof) high-gloss

white		LS 1520 BFKINA WW
green		LS 1520 BFKINA GN
orange		LS 1520 BFKINA O
red		LS 1520 BFKINA RT

matt lacquered

matt snow white		LS 1520 KINA WWM
matt graphite black		LS 1520 KINA SWM

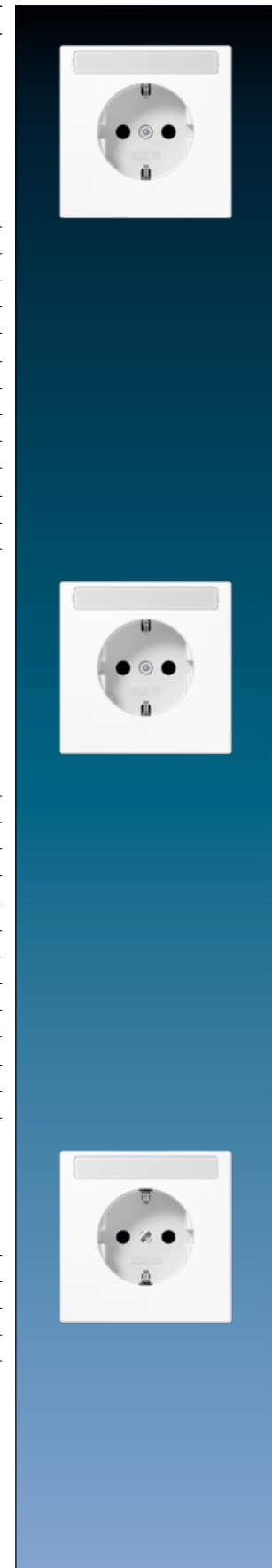
SCHUKO® socket 16 A / 250 V ~

with inscription field 9 x 58 mm

screw terminals for wires up to 2.5 mm²

Supporting frame, claws and claw screws are integrated into the earth protection.

ivory	P	LS 1521 NA
white	P	LS 1521 NA WW
light grey	P	LS 1521 NA LG
black		LS 1521 NA SW



LS range



Ref.-no.

SCHUKO® socket 16 A / 250 V ~
with enhanced contact protection (shutter)
with inscription field 9 x 58 mm

screw terminals for wires up to 2.5 mm²
 without claws: ref.-no. with additional "N", e.g.: ..1521 N..

Supporting frame, claws and claw screws are integrated into the earth protection.

Duroplastic (scratch-proof) glossy

ivory	Ⓟ	LS 1521 KINA
white	Ⓟ	LS 1521 KINA WW
light grey	Ⓟ	LS 1521 KINA LG
black		LS 1521 KINA SW

Transparent cover with paper inlay

for inscription field 9 x 58 mm
 (Spare part)

paper inlay white	CD 90 NA
-------------------	-----------------

SCHUKO® socket 16 A / 250 V ~
with inscription field 12 x 55 mm

screwless terminals for wires up to 2.5 mm²
 without claws: ref.-no. with additional "N", e.g.: ..1520 N..

With screw terminals: ref.-no. ..1521..

Supporting frame, claws and claw screws are integrated into the earth protection.

metal versions

aluminium	Ⓟ	AL 1520 NA
stainless steel	Ⓟ	ES 1520 NA
anthracite (aluminium lacquered)		AL 1520 NA AN
dark (aluminium lacquered)		AL 1520 NA D
classic brass	Ⓟ	ME 1520 NA C
antique brass		ME 1520 NA AT

SCHUKO® socket 16 A / 250 V ~
with enhanced contact protection (shutter)
with inscription field 12 x 55 mm

screwless terminals for wires up to 2.5 mm²
 without claws: ref.-no. with additional "N", e.g.: ..1520 N..

With screw terminals: ref.-no. ..1521..

Supporting frame, claws and claw screws are integrated into the earth protection.

metal versions

aluminium	Ⓟ	AL 1520 KINA
stainless steel	Ⓟ	ES 1520 KINA
anthracite (aluminium lacquered)		AL 1520 KINA AN
dark (aluminium lacquered)		AL 1520 KINA D
classic brass	Ⓟ	ME 1520 KINA C
antique brass		ME 1520 KINA AT

Transparent cover

for inscription field 12 x 55 mm
 (Spare part)




M 20 NA

Ref.-no.




SCHUKO® socket 45°, 16 A / 250 V ~

screwless terminals for wires up to 2.5 mm²
especially suitable for vertical combination of several outlets
without claws: ref.-no. with additional "N", e.g.: ..520-45 N..

Duroplastic (scratch-proof) glossy

ivory		LS 520-45
white		LS 520-45 WW
light grey		LS 520-45 LG
black		LS 520-45 SW

metal versions

aluminium	 	AL 2520-45
stainless steel		ES 2520-45
anthracite (aluminium lacquered)		AL 2520-45 AN

SCHUKO® socket with USB charger

with enhanced contact protection (shutter)

with 1 USB port type A
with quick charge function
screwless terminals for wires up to 2.5 mm²
Installation in flush box according to EN 60670-1
Installation depth: 48 mm



Thermoplastic (breakproof) high-gloss

ivory	LS 1520-18 A
white	LS 1520-18 A WW
light grey	LS 1520-18 A LG
black	LS 1520-18 A SW

matt lacquered

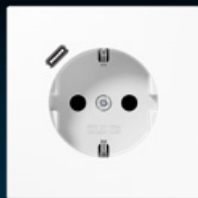
matt snow white	LS 1520-18 A WWM
matt graphite black	LS 1520-18 A SWM

metal colours (thermoplastic lacquered)

aluminium (lacquered)	AL 1520-18 A-L
stainless steel (lacquered)	ES 1520-18 A-L
anthracite (lacquered)	AL 1520-18 A AN-L
dark (lacquered)	AL 1520-18 A D-L
classic brass (lacquered)	ME 1520-18 A C-L
antique brass (lacquered)	ME 1520-18 A AT-L



LS range



SCHUKO® socket with USB charger with enhanced contact protection (shutter)

with 1 USB port type C
with quick charge function
screwless terminals for wires up to 2.5 mm²
Installation in flush box according to EN 60670-1
Installation depth: 48 mm



Thermoplastic (breakproof) high-gloss

ivory	LS 1520-18 C
white	LS 1520-18 C WW
light grey	LS 1520-18 C LG
black	LS 1520-18 C SW

matt lacquered

matt snow white	LS 1520-18 C WWM
matt graphite black	LS 1520-18 C SWM

metal colours (thermoplastic lacquered)

aluminium (lacquered)	AL 1520-18 C-L
stainless steel (lacquered)	ES 1520-18 C-L
anthracite (lacquered)	AL 1520-18 C AN-L
dark (lacquered)	AL 1520-18 C D-L
classic brass (lacquered)	ME 1520-18 C C-L
antique brass (lacquered)	ME 1520-18 C AT-L



SCHUKO® socket with USB charger with enhanced contact protection (shutter)

with 1 USB port type A and 1 USB port type C
screwless terminals for wires up to 2.5 mm²
Installation in flush box according to EN 60670-1
Installation depth: 48 mm

Thermoplastic (breakproof) high-gloss

ivory	LS 1520-15 CA
white	LS 1520-15 CA WW
light grey	LS 1520-15 CA LG
black	LS 1520-15 CA SW

matt lacquered

matt snow white	LS 1520-15 CA WWM
matt graphite black	LS 1520-15 CA SWM

metal colours (thermoplastic lacquered)

aluminium (lacquered)	AL 1520-15 CA-L
stainless steel (lacquered)	ES 1520-15 CA-L
anthracite (lacquered)	AL 1520-15 CA AN-L
dark (lacquered)	AL 1520-15 CA D-L
classic brass (lacquered)	ME 1520-15 CA C-L
antique brass (lacquered)	ME 1520-15 CA AT-L

Ref.-no.

Ref.-no.

Socket, French/Belgian system with USB charger

2-pole + male earth pin, 16 A / 250 V ~
with enhanced contact protection (shutter)
with 1 USB port type A



with quick charge function

screwless terminals for wires up to 2,5 mm²

Installation in flush box according to EN 60670-1

Installation depth: 48 mm

Thermoplastic (breakproof) high-gloss

ivory	LS 1520 F-18 A
white	LS 1520 F-18 A WW
light grey	LS 1520 F-18 A LG
black	LS 1520 F-18 A SW

matt lacquered

matt snow white	LS 1520 F-18 A WWM
matt graphite black	LS 1520 F-18 A SWM

metal colours (thermoplastic lacquered)

aluminium (lacquered)	AL 1520 F-18 A-L
stainless steel (lacquered)	ES 1520 F-18 A-L
anthracite (lacquered)	AL 1520 F-18 A AN-L
dark (lacquered)	AL 1520 F-18 A D-L
classic brass (lacquered)	ME 1520 F-18 A C-L
antique brass (lacquered)	ME 1520 F-18 A AT-L

Socket, French/Belgian system with USB charger

with enhanced contact protection (shutter)
with 1 USB port type C



with quick charge function

screwless terminals for wires up to 2,5 mm²

Installation in flush box according to EN 60670-1

2-pole + male earth pin, 16 A / 250 V ~

Installation depth: 48 mm

Thermoplastic (breakproof) high-gloss

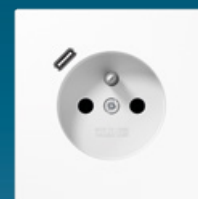
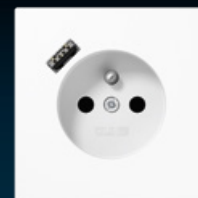
ivory	LS 1520 F-18 C
white	LS 1520 F-18 C WW
light grey	LS 1520 F-18 C LG
black	LS 1520 F-18 C SW

matt lacquered

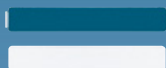
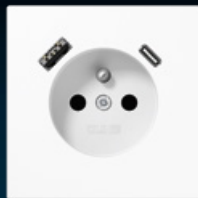
matt snow white	LS 1520 F-18 C WWM
matt graphite black	LS 1520 F-18 C SWM

metal colours (thermoplastic lacquered)

aluminium (lacquered)	AL 1520 F-18 C-L
stainless steel (lacquered)	ES 1520 F-18 C-L
anthracite (lacquered)	AL 1520 F-18 C AN-L
dark (lacquered)	AL 1520 F-18 C D-L
classic brass (lacquered)	ME 1520 F-18 C C-L
antique brass (lacquered)	ME 1520 F-18 C AT-L



LS range



Ref.-no.

Socket, French/Belgian system with USB charger

2-pole + male earth pin, 16 A / 250 V ~
with enhanced contact protection (shutter)
with 1 USB port type A and 1 USB port type C
screwless terminals for wires up to 2.5 mm²
Installation in flush box according to EN 60670-1
Installation depth: 48 mm

Thermoplastic (breakproof) high-gloss

ivory	LS 1520 F-15 CA
white	LS 1520 F-15 CA WW
light grey	LS 1520 F-15 CA LG
black	LS 1520 F-15 CA SW

matt lacquered

matt snow white	LS 1520 F-15 CA WWM
matt graphite black	LS 1520 F-15 CA SWM




metal colours (thermoplastic lacquered)

aluminium (lacquered)	AL 1520 F-15 CA-L
stainless steel (lacquered)	ES 1520 F-15 CA-L
anthracite (lacquered)	AL 1520 F-15 CA AN-L
dark (lacquered)	AL 1520 F-15 CA D-L
classic brass (lacquered)	ME 1520 F-15 CA C-L
antique brass (lacquered)	ME 1520 F-15 CA AT-L

SCHUKO® socket 16 A / 250 V ~ with pilot light (green LED) ref.-no.: 193-LED GN with enhanced contact protection (shutter) with inscription field 9 x 58 mm

screwless terminals for wires up to 2.5 mm²
without claws: ref.-no. with additional "N", e.g.: ..1520 N..
Supporting frame, claws and claw screws are integrated into the earth protection.

Duroplastic (scratch-proof) glossy

ivory	 LS 1520 NAKO
white	 LS 1520 NAKO WW
light grey	 LS 1520 NAKO LG
black	LS 1520 NAKO SW

Thermoplastic (breakproof) high-gloss

white	LS 1520 BFNAKO WW
green	LS 1520 BFNAKO GN
orange	LS 1520 BFNAKO O
red	LS 1520 BFNAKO RT

Spare pilot light exchangeable from the front without disconnecting the mains

Transparent cover with paper inlay

for inscription field 9 x 58 mm
(Spare part)

paper inlay white	CD 90 NA
-------------------	----------

Ref.-no.

SCHUKO® socket 16 A / 250 V ~

with enhanced contact protection (shutter)

with integrated inscription module (moisture-proof) 50 x 10 mm


screwless terminals for wires up to 2.5 mm²

including inscription module ref.-no.: LS 61 INA BT

When the centre plate is removed, the inscription module remains latched onto the supporting frame.

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

white	 LS 1520 INA WW
green	LS 1520 INA GN
orange	LS 1520 INA O
red	LS 1520 INA RT

SCHUKO® socket 16 A / 250 V ~

with pilot light (green LED) ref.-no.: 193-LED GN

with enhanced contact protection (shutter)

with integrated inscription module (moisture-proof) 50 x 10 mm


screwless terminals for wires up to 2.5 mm²

including inscription module ref.-no.: LS 61 INA BT

When the centre plate is removed, the inscription module remains latched onto the supporting frame.

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

white	 LS 1520 INA KO WW
green	LS 1520 INA KO GN
orange	LS 1520 INA KO O
red	LS 1520 INA KO RT

Spare pilot light exchangeable from the front without disconnecting the mains

Inscription module 50 x 10 mm

(Spare part)

for SCHUKO® sockets ref.-no.: LS 1520 .. INA ..

LS 61 INA BT

SCHUKO® socket 16 A / 250 V ~

with surge voltage protection

with inscription field 7 x 57 mm

screw terminals for wires up to 2.5 mm²

without claws: ref.-no. with additional "N", e.g.: ..521 N..

Duroplastic (scratch-proof) glossy

white	LS 521 NAUF WW
-------	-----------------------

Transparent cover with paper inlay

for inscription field 7 x 57 mm

(Spare part)

paper inlay white

LS 20 NA



LS range



Ref.-no.

SCHUKO® socket 16 A / 250 V ~

with surge voltage protection

with inscription field 12 x 55 mm

screw terminals for wires up to 2.5 mm²

without claws: ref.-no. with additional "N", e.g.: ..521 N..

metal versions

aluminium

AL 2521 NAUF

Transparent cover

for inscription field 12 x 55 mm

(Spare part)

M 20 NA

SCHUKO® socket with RCD (residual current device) 16 A / 250 V ~

according to DIN EN 61008-1 (VDE 0664-10) and DIN EN 61008-2-1 (VDE 0664-11)

Rated residual current: 30 mA

with enhanced contact protection (shutter)

screwless terminals for wires up to 2.5 mm²

not suitable for installation in surface caps

The SCHUKO socket with RCD is suitable to replace sockets in older installations.

Sockets that are connected to the RCD-protected output terminals (L' N') are likewise RCD-protected.

The electrical installation up to the SCHUKO® socket with RCD is not protected.

The socket can also be switched on and off manually, using the built-in switch.

Thermoplastic (breakproof) high-gloss

ivory

LS 5520.30

white

LS 5520.30 WW

black

LS 5520.30 SW

RCD (residual current device) 16 A / 250 V ~

according to DIN EN 61008-1 (VDE 0664-10) and DIN EN 61008-2-1 (VDE 0664-11)

Rated residual current: 30 mA

screwless terminals for wires up to 2.5 mm²

suitable for cables with 2 or 3 conductors

not suitable for installation in surface caps

Installation into flush box with a depth of 60 mm is recommended. Protection device with voltage-independent function. The sockets connected to the output terminals are protected acc. to DIN VDE 0100-410.

The electrical installation up to the RCD is not protected!

Thermoplastic (breakproof) high-gloss

ivory

LS 5530 FIB

white

LS 5530 FIB WW

black

LS 5530 FIB SW

Ref.-no.

SCHUKO® socket 16 A / 250 V ~

- with LED floor pilot light
- with integrated brightness sensor
- with enhanced contact protection (shutter)

screwless terminals for wires up to 2.5 mm²
 installation into flush box min. 63 mm (depth)
 with white LEDs (colour temperature 4000 K)
 power consumption stand-by / ON: 0.3 / 0.5 W
 Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

ivory	LS 1520-O LNW
white	LS 1520-O WW LNW
light grey	LS 1520-O LG LNW
black	LS 1520-O SW LNW

matt lacquered

matt snow white	LS 1520-O WWM LNW
matt graphite black	LS 1520-O SWM LNW

metal colours (thermoplastic lacquered)

aluminium (lacquered)	AL 1520-O LNW
stainless steel (lacquered)	ES 1520-O LNW
anthracite (lacquered)	AL 1520-O AN LNW
dark (lacquered)	AL 1520-O D LNW
classic brass (lacquered)	ME 1520-O C LNW
antique brass (lacquered)	ME 1520-O AT LNW








SCHUKO® socket 16 A / 250 V ~

- with hinged lid (with spring)











screwless terminals for wires up to 2.5 mm²
 without claws: ref.-no. with additional "N", e.g.: ..1520 N..
 Metal versions not suitable for ceiling installation.
 With screw terminals: ref.-no. ..1521..

Supporting frame, claws and claw screws are integrated into the earth protection.



Duroplastic (scratch-proof) glossy

ivory	  LS 1520 KL
white	  LS 1520 KL WW
light grey	  LS 1520 KL LG
black	 LS 1520 KL SW

Thermoplastic (breakproof) high-gloss

ivory	  LS 1520 BFKL
white	  LS 1520 BFKL WW
green	 LS 1520 BFKL GN
light grey	  LS 1520 BFKL LG
orange	 LS 1520 BFKL O
red	 LS 1520 BFKL RT
black	  LS 1520 BFKL SW

matt lacquered

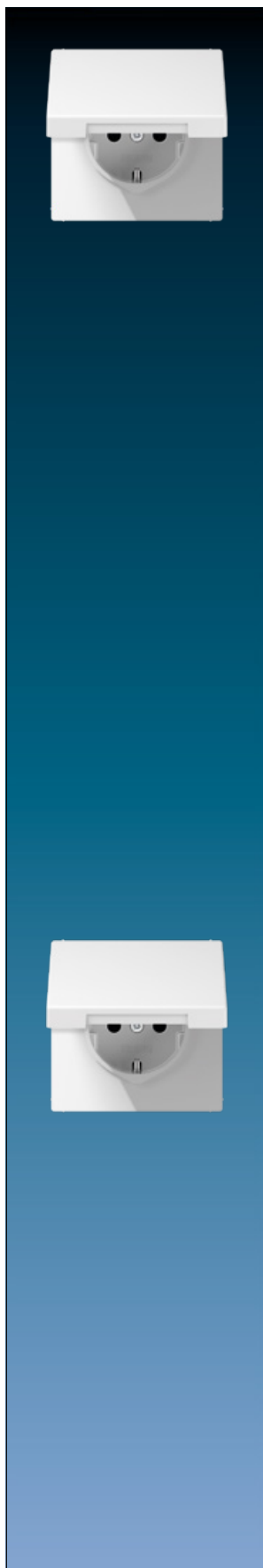
matt snow white	 LS 1520 BFKL WWM
matt graphite black	 LS 1520 BFKL SWM

metal versions

aluminium	   AL 1520 KL
stainless steel	  ES 1520 KL
anthracite (aluminium lacquered)	 AL 1520 KL AN
dark (aluminium lacquered)	 AL 1520 KL D
chrome	GCR 1520 KL
gold-coloured	GO 1520 KL
classic brass	 ME 1520 KL C
antique brass	ME 1520 KL AT



LS range



Ref.-no.

SCHUKO® socket 16 A / 250 V ~

with hinged lid (with spring)

with enhanced contact protection (shutter)

screwless terminals for wires up to 2.5 mm²

without claws: ref.-no. with additional "N", e.g.: ..1520 N..

Metal versions not suitable for ceiling installation.

With screw terminals: ref.-no. ..1521..

Supporting frame, claws and claw screws are integrated into the earth protection.

Duroplastic (scratch-proof) glossy

ivory	IP P	LS 1520 KIKL
white	IP P	LS 1520 KIKL WW
light grey	IP P	LS 1520 KIKL LG
black	IP	LS 1520 KIKL SW

Thermoplastic (breakproof) high-gloss

ivory	IP L	LS 1520 BFKIKL
white	IP L	LS 1520 BFKIKL WW
green	IP	LS 1520 BFKIKL GN
light grey	IP L	LS 1520 BFKIKL LG
orange	IP	LS 1520 BFKIKL O
red	IP	LS 1520 BFKIKL RT
black	IP L	LS 1520 BFKIKL SW

matt lacquered

matt snow white	IP	LS 1520 BFKIKL WWM
matt graphite black	IP	LS 1520 BFKIKL SWM

metal versions

aluminium	IP P L	AL 1520 KIKL
stainless steel	IP L	ES 1520 KIKL
anthracite (aluminium lacquered)	IP	AL 1520 KIKL AN
dark (aluminium lacquered)	IP	AL 1520 KIKL D
chrome		GCR 1520 KIKL
classic brass	P	ME 1520 KIKL C
antique brass		ME 1520 KIKL AT

SCHUKO® socket 16 A / 250 V ~

with hinged lid (with spring)

screw terminals for wires up to 2.5 mm²

Metal versions not suitable for ceiling installation.

Duroplastic (scratch-proof) glossy

ivory	IP P	LS 1521 KL
white	IP P	LS 1521 KL WW
light grey	IP P	LS 1521 KL LG
black	IP	LS 1521 KL SW

matt lacquered

matt snow white	IP	LS 1521 KL WWM
matt graphite black	IP	LS 1521 KL SWM

metal versions

aluminium	IP P L	AL1521KL
stainless steel	IP L	ES 1521 KL
anthracite (aluminium lacquered)	IP	AL 1521 KL AN
dark (aluminium lacquered)	IP	AL 1521 KL D
gold-coloured		GO 1521 KL
classic brass	P	ME 1521 KL C
antique brass		ME 1521 KL AT

Ref.-no.

SCHUKO® socket 16 A / 250 V ~

with hinged lid (with spring)

with enhanced contact protection (shutter)

screw terminals for wires up to 2.5 mm²

Metal versions not suitable for ceiling installation.

Duroplastic (scratch-proof) glossy

ivory	IP P	LS 1521 KIKL
white	IP P	LS 1521 KIKL WW
light grey	IP P	LS 1521 KIKL LG
black	IP	LS 1521 KIKL SW

matt lacquered

matt snow white	IP	LS 1521 KIKL WWM
matt graphite black	IP	LS 1521 KIKL SWM

metal versions

aluminium	IP P L	AL 1521 KIKL
stainless steel	IP L	ES 1521 KIKL
anthracite (aluminium lacquered)	IP	AL 1521 KIKL AN
dark (aluminium lacquered)	IP	AL 1521 KIKL D

SCHUKO® socket 16 A / 250 V ~

with hinged lid (with spring)

with inscription field 9 x 58 mm

with enhanced contact protection (shutter)

screwless terminals for wires up to 2.5 mm²

without claws: ref.-no. with additional "N", e.g.: ..1520 N..

With screw terminals: ref.-no. ..1521..

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

ivory	IP L	LS 1520 BFNAKL
white	IP L	LS 1520 BFNAKL WW
green	IP	LS 1520 BFNAKL GN
light grey	IP L	LS 1520 BFNAKL LG
orange	IP	LS 1520 BFNAKL O
red	IP	LS 1520 BFNAKL RT
black	IP L	LS 1520 BFNAKL SW

matt lacquered

matt snow white	IP	LS 1520 BFNAKL WWM
matt graphite black	IP	LS 1520 BFNAKL SWM

SCHUKO® socket 16 A / 250 V ~

with hinged lid (with spring)

with inscription field 9 x 58 mm

with enhanced contact protection (shutter)

screw terminals for wires up to 2.5 mm²

without claws: ref.-no. with additional "N", e.g.: ..1521 N..

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

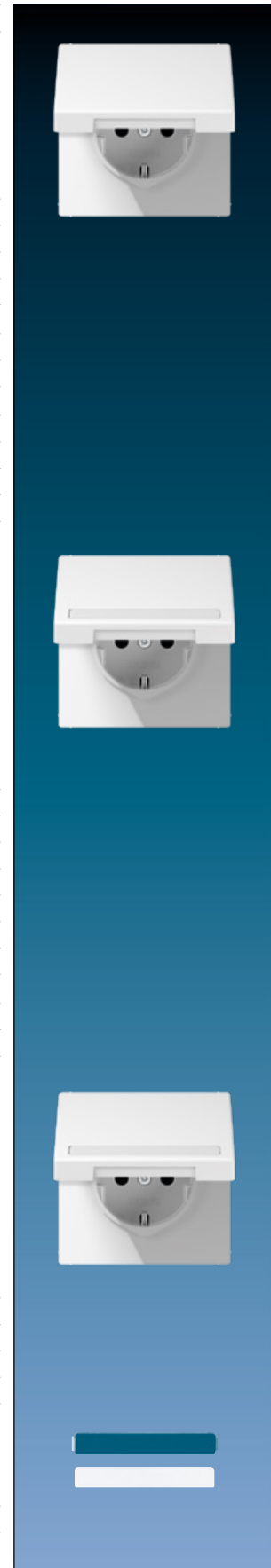
ivory	IP L	LS 1521 BFNAKL
white	IP L	LS 1521 BFNAKL WW
light grey	IP L	LS 1521 BFNAKL LG
black	IP L	LS 1521 BFNAKL SW

Transparent cover with paper inlay

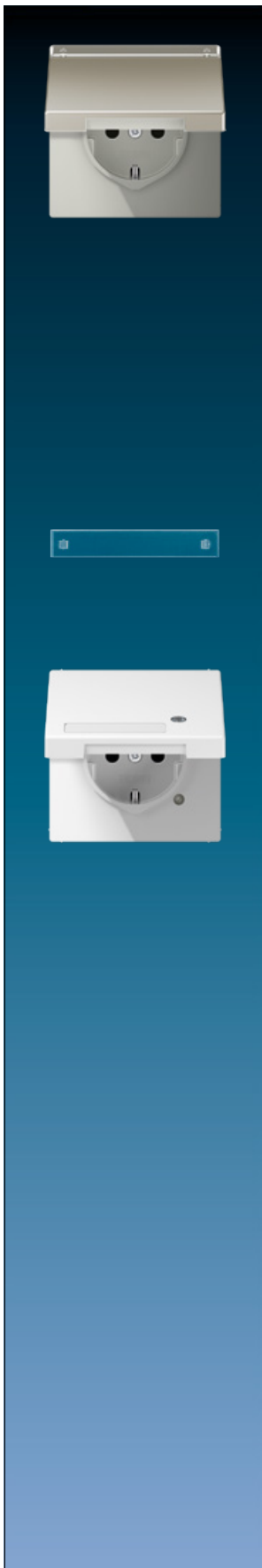
for inscription field 9 x 58 mm

(Spare part)

paper inlay white	CD 90 NA
-------------------	----------



LS range



Ref.-no.

**SCHUKO® socket 16 A / 250 V ~
with hinged lid (with spring)
with inscription field 12 x 55 mm
with enhanced contact protection (shutter)**

screwless terminals for wires up to 2.5 mm²
without claws: ref.-no. with additional "N", e.g.: ..1520 N..
Metal versions not suitable for ceiling installation.
With screw terminals: ref.-no. ..1521..
Supporting frame, claws and claw screws are integrated into the earth protection.

metal versions

aluminium	IP	P	L	AL 1520 NAKL
stainless steel	IP		L	ES 1520 NAKL
anthracite (aluminium lacquered)	IP			AL 1520 NAKL AN
dark (aluminium lacquered)	IP			AL 1520 NAKL D
chrome				GCR 1520 NAKL
classic brass		P		ME 1520 NAKL C
antique brass				ME 1520 NAKL AT

Transparent cover

for inscription field 12 x 55 mm
(Spare part)

M 20 NA

**SCHUKO® socket 16 A / 250 V ~
with hinged lid (with spring)
with inscription field 9 x 39 mm
with pilot light (green LED) ref.-no.: 193-LED GN
with enhanced contact protection (shutter)**

screwless terminals for wires up to 2.5 mm²
without claws: ref.-no. with additional "N", e.g.: ..1520 N..
Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

ivory	IP		L	LS 1520 NAKLKO
white	IP		L	LS 1520 NAKLKO WW
green	IP			LS 1520 NAKLKO GN
light grey	IP		L	LS 1520 NAKLKO LG
orange	IP			LS 1520 NAKLKO O
red	IP			LS 1520 NAKLKO RT
black	IP		L	LS 1520 NAKLKO SW

Spare pilot light exchangeable from the front without disconnecting the mains

Ref.-no.

SCHUKO® socket 16 A / 250 V ~

with hinged lid (with spring)

with inscription field 9 x 39 mm

with safety lock (24 different locks)

with enhanced contact protection (shutter)









screwless terminals for wires up to 2.5 mm²

without claws: ref.-no. with additional "N", e.g.: ..1520 N..








With screw terminals: ref.-no. ..1521..

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

ivory			LS 1520 NAKLSL
white			LS 1520 NAKLSL WW
light grey			LS 1520 NAKLSL LG
black			LS 1520 NAKLSL SW

metal colours (thermoplastic lacquered)

aluminium (lacquered)			AL 1520 NAKLSL
stainless steel (lacquered)			ES 1520 NAKLSL
anthracite (lacquered)			AL 1520 NAKLSL AN
dark (lacquered)			AL 1520 NAKLSL D
classic brass (lacquered)			ME 1520 NAKLSL C
antique brass (lacquered)			ME 1520 NAKLSL AT

Key

(Spare part)

for all hinged lids with safety lock

1 piece 802 SL – 825 SL

When ordering, please indicate lock number!

Transparent cover with paper inlay

for inscription field 9 x 39 mm

(Spare part)

paper inlay white LS 90 NA


2-gang SCHUKO® socket 16 A / 250 V ~

with enhanced contact protection (shutter)

to be installed into one flush box with 60 mm Ø

screwless terminals for wires up to 2.5 mm²

metal colours (duroplastic lacquered)

aluminium (lacquered)		AL 5020 KI-L
stainless steel (lacquered)		ES 5020 KI-L
anthracite (lacquered)		AL 5020 KI AN-L


2-gang SCHUKO® socket 16 A / 250 V ~

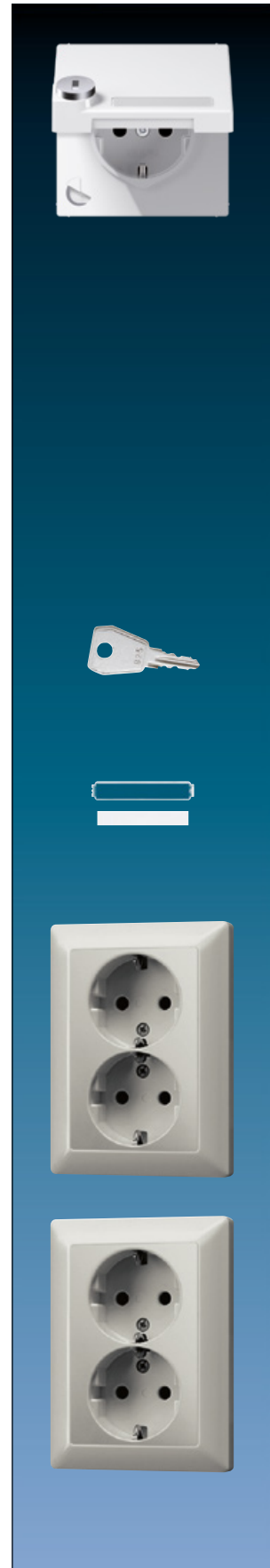
with enhanced contact protection (shutter)

to be installed into one flush box with 60 mm Ø

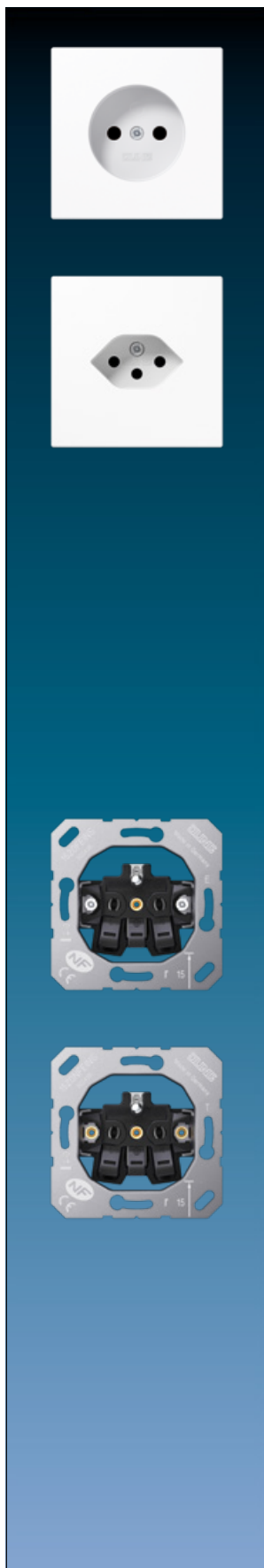
screw terminals for wires up to 2.5 mm²

metal colours (duroplastic lacquered)

aluminium (lacquered)		AL 5022 KI-L
stainless steel (lacquered)		ES 5022 KI-L
anthracite (lacquered)		AL 5022 KI-L AN



LS range



Ref.-no.

Socket, 2-pole without earth 16 A / 250 V ~

screw terminals for wires up to 2.5 mm²

Duroplastic (scratch-proof) glossy

ivory	☐	LS 911
white	☐	LS 911 WW

Socket for Switzerland

1-gang socket type 13

10 A 250 V ~, L + N + PE

screwless terminals for wires up to 2.5 mm² acc. to SEV 1011-1998/IEC 884-1

Installation in flush box according to EN 60670-1

not suitable for installation in surface caps

with supporting frame, screw fixing only

Duroplastic (scratch-proof) glossy

ivory	☐	LS 1520-13 SEV
white	☐	LS 1520-13 SEV WW
light grey	☐	LS 1520-13 SEV LG
black		LS 1520-13 SEV SW

matt lacquered

matt snow white		LS 1520-13 SEV WWM
matt graphite black		LS 1520-13 SEV SWM

metal versions

aluminium	☐	AL 1520-13 SEV
stainless steel	☐	ES 1520-13 SEV
anthracite (aluminium lacquered)		AL 1520-13 SEV AN

Socket insert, French/Belgian system

2-pole + male earth pin, 16 A / 250 V ~

Supporting frame, claws and claw screws are integrated into the earth protection.

with claws

with screwless terminals	1520 F EINS
with screw terminals	1521 F EINS

Socket insert, French/Belgian system

2-pole + male earth pin, 16 A / 250 V ~

Supporting frame is integrated into the earth protection.

without claws

with screwless terminals	1520 NF EINS
with screw terminals	1521 NF EINS

Ref.-no.

Centre plate

for socket insert French/Belgian system, ref.-no.: 1520 ..F EINS, 1521 ..F EINS

Duroplastic (scratch-proof) glossy

ivory	P	LS 1521 F PL-1
white	P	LS 1521 F WW PL-1
light grey	P	LS 1521 F LG PL-1
black		LS 1521 F SW PL-1

metal versions

aluminium	P L	AL 1521 F PL-1
stainless steel	L	ES 1521 F PL-1
anthracite (aluminium lacquered)		AL 1521 F AN PL-1
dark (aluminium lacquered)		AL 1521 F D PL-1
classic brass	P	ME 1521 F C PL-1
antique brass		ME 1521 F AT PL-1

Centre plate

for socket insert French/Belgian system, ref.-no.: 1520 ..F EINS, 1521 ..F EINS

with enhanced contact protection (shutter)

Duroplastic (scratch-proof) glossy

ivory	P	LS 1521 FKI PL-1
white	P	LS 1521 FKI WW PL-1
light grey	P	LS 1521 FKI LG PL-1
black		LS 1521 FKI SW PL-1

matt lacquered

matt snow white		LS 1521 FKI WWM PL-1
matt graphite black		LS 1521 FKI SWM PL-1

metal versions

aluminium	P L	AL 1521 FKI PL-1
stainless steel	L	ES 1521 FKI PL-1
anthracite (aluminium lacquered)		AL 1521 FKI AN PL-1
dark (aluminium lacquered)		AL 1521 FKI D PL-1
chrome		GCR 1521 FKIPL-1
gold-coloured		GO 1521 FKI PL-1
classic brass	P	ME 1521 FKI C PL-1
antique brass		ME 1521 FKI AT PL-1

Centre plate

for socket insert French/Belgian system, ref.-no.: 1520 ..F EINS, 1521 ..F EINS

with enhanced contact protection (shutter)

with hinged lid (with spring)

Duroplastic (scratch-proof) glossy

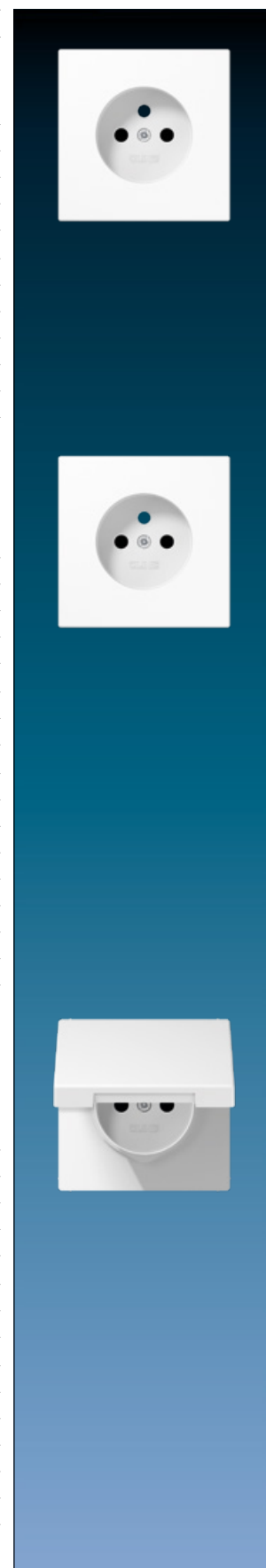
ivory	IP P	LS 1521 FKL PL1
white	IP P	LS 1521 FKL WW PL1
light grey	IP P	LS 1521 FKL LG PL1
black	IP	LS 1521 FKL SW PL1

matt lacquered

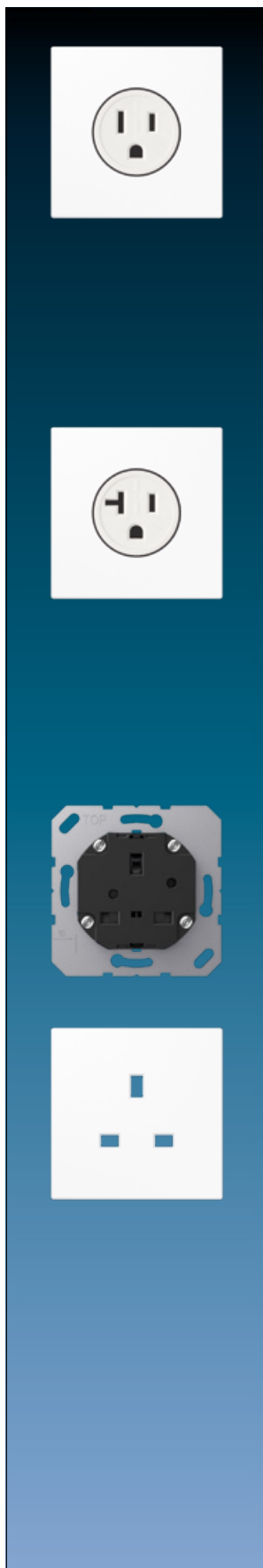
matt snow white	IP	LS 1521 FKL WWM PL1
matt graphite black	IP	LS 1521 FKL SWM PL1

metal colours (thermoplastic lacquered)

aluminium (lacquered)	IP P	AL 1521 FKL PL1L
stainless steel (lacquered)	IP	ES 1521 FKL PL1L
anthracite (lacquered)	IP	AL 1521 FKL AN PL1L
dark (lacquered)	IP	AL 1521 FKL D PL1L
classic brass (lacquered)	P	ME 1521 FKL C PL1L
antique brass (lacquered)		ME 1521 FKL AT PL1L



LS range



Ref.-no.

Socket US NEMA system

15 A, 125 V ~, 5-15R, 2-pole + earth

screw terminals for wires up to 4 mm² acc. to US-NEMA

Thermoplastic (breakproof) high-gloss

white **LS 521-15 WW**

matt lacquered

matt snow white **LS 521-15 WWM**

matt graphite black plug socket black **LS 521-15 SWM**

metal versions

aluminium plug socket black **AL 2521-15**

stainless steel plug socket black **ES 2521-15**

classic brass plug socket black **ME 2521-15 C**

antique brass plug socket black **ME 2521-15 AT**

Socket US NEMA system

20 A, 125 V ~, 5-20R, 2-pole + earth

screw terminals for wires up to 4 mm² acc. to US-NEMA

Thermoplastic (breakproof) high-gloss

white **LS 521-20 WW**

matt lacquered

matt snow white **LS 521-20 WWM**

matt graphite black plug socket black **LS 521-20 SWM**

metal versions

aluminium plug socket black **AL 2521-20**

stainless steel plug socket black **ES 2521-20**

classic brass plug socket black **ME 2521-20 C**

antique brass plug socket black **ME 2521-20 AT**

Socket insert British Standard 1363

13 A 250 V ~

2-pole + earth, with enhanced contact protection (shutter)

screw terminals for wires up to 4 mm²

without switch **3521 EINS**

Centre plate

for socket insert ref.-no. 3521 EINS

Duroplastic (scratch-proof) glossy

ivory **BS 2521 PL**

white **BS 2521 WW PL**

black **BS 2521 SW PL**

matt lacquered

matt snow white **BS 2521 WWM PL**

matt graphite black **BS 2521 SWM PL**

metal versions

aluminium **BS 2521 AL PL**

stainless steel **BS 2521 ES PL**

anthracite (aluminium lacquered) **BS 2521 AN PL**

dark (aluminium lacquered) **BS 2521 ALD PL**

chrome **BS 2521 GCR PL**

gold-coloured **BS 2521 GO PL**

classic brass **BS 2521 MEC PL**

antique brass **BS 2521 MEAT PL**

Ref.-no.

Switched socket insert British Standard 1363

13 A 250 V ~

2-pole + earth, with enhanced contact protection (shutter)

screw terminals for wires up to 4 mm²

without indicator light

3171 EINS

with indicator light

3171 KO EINS

Centre plate

for socket insert ref.-no. 3171 EINS

Duroplastic (scratch-proof) glossy

ivory

BS 2171 PL

white

BS 2171 WW PL

black

BS 2171 SW PL

matt lacquered

matt snow white

BS 2171 WWM PL

matt graphite black

BS 2171 SWM PL

metal versions

aluminium

BS 2171 AL PL

stainless steel

BS 2171 ES PL

anthracite (aluminium lacquered)

BS 2171 AN PL

dark (aluminium lacquered)

BS 2171 ALD PL

chrome

BS 2171 GCR PL

gold-coloured

BS 2171 GO PL

classic brass

BS 2171 MEC PL

antique brass

BS 2171 MEAT PL

Centre plate

for socket insert ref.-no. 3171 KO EINS

Duroplastic (scratch-proof) glossy

ivory

BS 2171 KO PL

white

BS 2171 KO WW PL

black

BS 2171 KO SW PL

matt lacquered

matt snow white

BS 2171 KO WWM PL

matt graphite black

BS 2171 KO SWM PL

metal versions

aluminium

BS 2171 KO AL PL

stainless steel

BS 2171 KO ES PL

anthracite (aluminium lacquered)

BS 2171 KO AN PL

dark (aluminium lacquered)

BS 2171 KO ALD PL

chrome

BS 2171 KO GCR PL

gold-coloured

BS 2171 KO GO PL

classic brass

BS 2171 KO MEC PL

antique brass

BS 2171 KO MEAT PL



LS range



Ref.-no.

Socket insert British Standard 546

5 A 250 V ~

2-pole + earth, with enhanced contact protection (shutter)
screw terminals for wires up to 4 mm²
without switch

3171-5 EINS

Centre plate

for socket insert ref.-no. 3171-5 EINS

Duroplastic (scratch-proof) glossy

ivory	BS 2171-5 PL
white	BS 2171-5 WW PL
black	BS 2171-5 SW PL

matt lacquered

matt snow white	BS 2171-5 WWM PL
matt graphite black	BS 2171-5 SWM PL

metal versions

aluminium	BS 2171-5 AL PL
stainless steel	BS 2171-5 ES PL
anthracite (aluminium lacquered)	BS 2171-5 AN PL
dark (aluminium lacquered)	BS 2171-5 ALD PL
chrome	BS 2171-5 GCR PL
gold-coloured	BS 2171-5 GO PL
classic brass	BS 2171-5 MEC PL
antique brass	BS 2171-5 MEAT PL

Socket insert for China



consisting of:
2-pole without earth for flat and rounded pins and
2-pole with earth only for flat pins
with enhanced contact protection (shutter)
screw terminals for wires up to 4 mm²
screw fixing only, without claws
Supporting frame is integrated into the earth protection.
without switch

3521-5 CN EINS

Centre plate

for Chinese socket combination, ref.-no. 3521-5 CN EINS

Duroplastic (scratch-proof) glossy

ivory	 LS 3521-5 CN PL
white	 LS 3521-5 CN WW PL
black	LS 3521-5 CN SW PL

matt lacquered

matt snow white	LS 3521-5 CN WWM PL
matt graphite black	LS 3521-5 CN SWM PL

metal versions

aluminium	  AL 3521-5 CN PL
stainless steel	 ES 3521-5 CN PL
anthracite (aluminium lacquered)	AL 3521-5 CN AN PL
dark (aluminium lacquered)	AL 3521-5 CND PL
chrome	GCR 3521-5 CNPL
gold-coloured	GO 3521-5 CN PL
classic brass	 ME 3521-5 CN C PL
antique brass	ME 3521-5 CN AT PL

Ref.-no.

Switched socket insert, type G + I

13 A 250 V ~

for plugs BS 1363 (type G) and GB 2099-1 (type I)

with enhanced contact protection (shutter)

screw terminals for wires up to 4 mm²

Installation in flush box according to EN 60670-1

4171 GI SW EINS



Centre plate

for socket insert ref.-no. 4171 GI SW EINS

Duroplastic (scratch-proof) glossy

ivory

LS 4171 GI SW PL

white

LS 4171 GI SW WW PL

black

LS 4171 GI SW SW PL

matt lacquered

matt snow white

LS 4171 GI SW WWM PL

matt graphite black

LS 4171 GI SW SWM PL

other colours on request



Socket insert for India

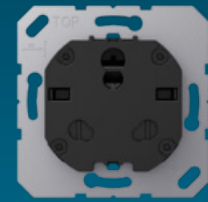
16 A 250 V ~

2-pole + earth, with enhanced contact protection (shutter)

screw terminals for wires up to 4 mm²

without switch

521 IN-EINS



Centre plate

for socket insert for India, ref.-no. 521 IN-EINS

Duroplastic (scratch-proof) glossy

white

LS 521 IN WW PL

metal versions

aluminium

AL 2521 IN PL

stainless steel

ES 2521 IN PL

anthracite (aluminium lacquered)

AL 2521 IN AN PL

dark (aluminium lacquered)

AL 2521 IN D PL

gold-coloured

GO 2521 IN PL

classic brass

ME 2521 IN C PL

antique brass

ME 2521 IN AT PL



LS range



Ref.-no.

Switched cable unit with fuse

2-pole, 13 A 250 V ~

with indicator light
screw terminals for wires up to 4 mm²

3190 CU KO EINS

Centre plate

for switched cable unit ref.-no. 3190 CU KO EINS

ivory (aluminium lacquered)

BS 2190 CU KO PL

white (aluminium lacquered)

BS 2190 CU KO WW PL

black (aluminium lacquered)

BS 2190 CU KO SW PL

metal versions

aluminium

BS 2190 CU KO AL PL

stainless steel

BS 2190 CU KO ES PL

anthracite (aluminium lacquered)

BS 2190 CU KO AN PL

dark (aluminium lacquered)

BS 2190 CU KO ALD PL

chrome

BS 2190 CU KO GCR PL

gold-coloured

BS 2190 CU KO GO PL

classic brass

BS 2190 CU KO MEC PL

antique brass

BS 2190 CU KO MEAT PL

Switched socket insert British Standard 1363

for rectangular British Standard wall boxes

screw terminals for wires up to 4 mm²

2-gang

2-pole, 13 A 250 V ~

only in combination with 2-gang frames LS 990 (ref.-no. LS 982 ..)

without indicator light

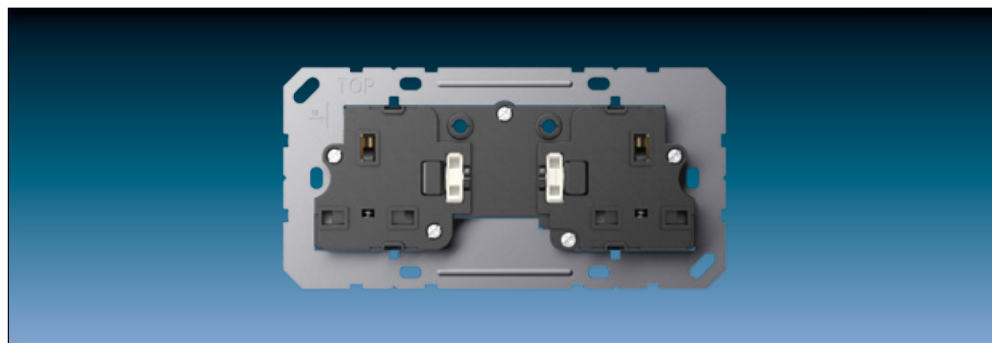
BS 3172 EINS

with indicator light

BS 3172 KO EINS

The inserts enable the flush installation into rectangular British Standard wall boxes.

Combinations with other devices into multiple frames are NOT possible.



Ref.-no.

Centre plate

for socket insert ref.-no. BS 3172 EINS

only in combination with 2-gang frames LS 990 (ref.-no. LS 982 ..)

Duroplastic (scratch-proof) glossy

ivory	BS 2172 PL
white	BS 2172 WW PL
black	BS 2172 SW PL

matt lacquered

matt snow white	BS 2172 WWM PL
matt graphite black	BS 2172 SWM PL

metal versions

aluminium	BS 2172 AL PL
stainless steel	BS 2172 ES PL
anthracite (aluminium lacquered)	BS 2172 AN PL
dark (aluminium lacquered)	BS 2172 ALD PL
chrome	BS 2172 GCR PL
gold-coloured	BS 2172 GO PL
classic brass	BS 2172 MEC PL
antique brass	BS 2172 MEAT PL

Centre plate

for socket insert ref.-no. BS 3172 KO EINS

only in combination with 2-gang frames LS 990 (ref.-no. LS 982 ..)

Duroplastic (scratch-proof) glossy

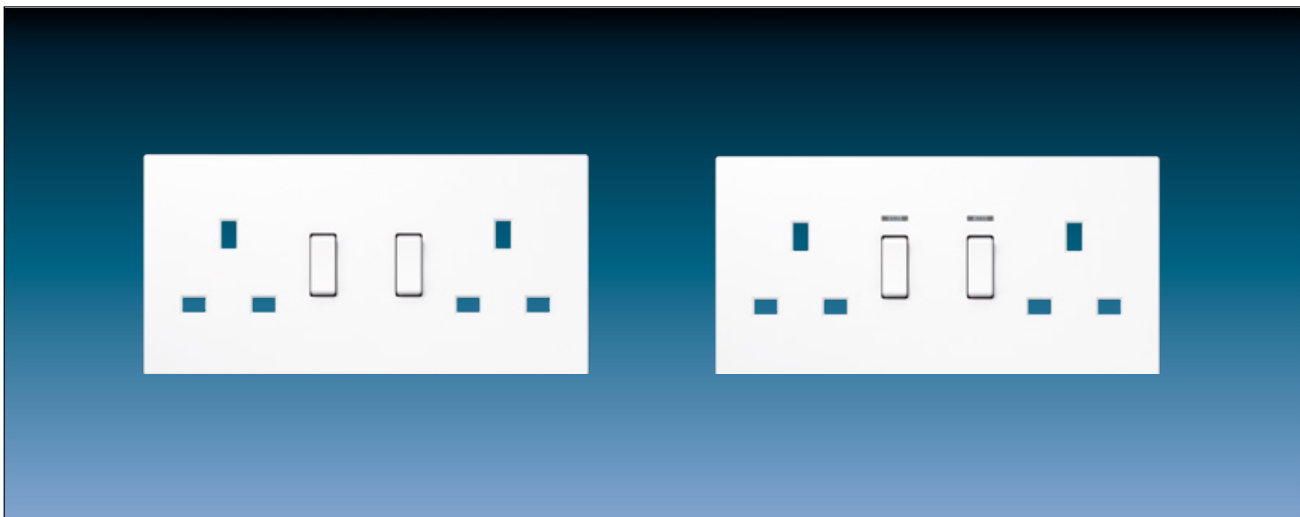
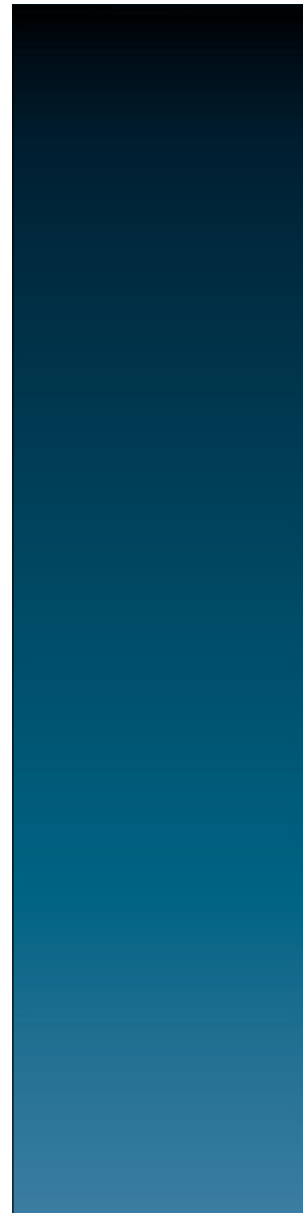
ivory	BS 2172 KO PL
white	BS 2172 KO WW PL
black	BS 2172 KO SW PL

matt lacquered

matt snow white	BS 2172 KO WWM PL
matt graphite black	BS 2172 KO SWM PL

metal versions

aluminium	BS 2172 KO AL PL
stainless steel	BS 2172 KO ES PL
anthracite (aluminium lacquered)	BS 2172 KO AN PL
dark (aluminium lacquered)	BS 2172 KO ALD PL
chrome	BS 2172 KO GCR PL
gold-coloured	BS 2172 KO GO PL
classic brass	BS 2172 KO MEC PL
antique brass	BS 2172 KO MEAT PL



LS range

Ref.-no.

**Socket insert British Standard 1363
for rectangular British Standard wall boxes**

screw terminals for wires up to 4 mm²

2-gang

2-pole, 13 A 250 V ~

only in combination with 2-gang frames LS 990 (ref.-no. LS 982 ..)

without switch

BS 3522 EINS

The inserts enable the flush installation into rectangular British Standard wall boxes.
Combinations with other devices into multiple frames are NOT possible.



Centre plate

for socket insert ref.-no. BS 3522 EINS

only in combination with 2-gang frames LS 990 (ref.-no. LS 982 ..)

Duroplastic (scratch-proof) glossy

ivory

BS 2522 PL

white

BS 2522 WW PL

black

BS 2522 SW PL

matt lacquered

matt snow white

BS 2522 WWM PL

matt graphite black

BS 2522 SWM PL

metal versions

aluminium

BS 2522 AL PL

stainless steel

BS 2522 ES PL

anthracite (aluminium lacquered)

BS 2522 AN PL

dark (aluminium lacquered)

BS 2522 ALD PL

chrome

BS 2522 GCR PL

gold-coloured

BS 2522 GO PL

classic brass

BS 2522 MEC PL

antique brass

BS 2522 MEAT PL



Ref.-no.

Centre plate with knob

for rotary dimmer inserts ref.-no.: 1730 DD, 1731 DD, 211 GDE

for satellite dimmer insert ref.-no.: 1733 DNE

for electronic potentiometer 1 – 10 V ref.-no.: 240-10

for DALI rotary controllers ref.-no.: 1740 DSTE, 1741 DSTE

Duroplastic (scratch-proof) glossy

ivory	IP P	LS 1940
white	IP P	LS 1940 WW
light grey	IP P	LS 1940 LG
black	IP	LS 1940 SW

matt lacquered

matt snow white	IP	LS 1940 WWM
matt graphite black	IP	LS 1940 SWM

metal versions

aluminium	IP P L	AL 1940
stainless steel	IP L	ES 1940
anthracite (aluminium lacquered)	IP	AL 1940 AN
dark (aluminium lacquered)	IP	AL 1940 D
chrome		GCR 1940
gold-coloured		GO 1940
classic brass	P	ME 1940 C
antique brass		ME 1940 AT

Sealing gasket

for covers for rotary dimmer inserts

IP 140 D

To obtain protection level IP 44 the sealing gasket ref.-no.: 140 D has to be placed into the centre plate for rotary dimmer and IP 44 frame has to be used.

Standard centre plate

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE

for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE,

1711 DE, 1713 DSTE, 1720 NE, 1723 NE, 1708 IE

Duroplastic (scratch-proof) glossy

ivory	LS 1700
white	LS 1700 WW
light grey	LS 1700 LG
black	LS 1700 SW

matt lacquered

matt snow white	LS 1700 WWM
matt graphite black	LS 1700 SWM

metal versions

aluminium	L AL 1700
stainless steel	L ES 1700
anthracite (aluminium lacquered)	AL 1700 AN
dark (aluminium lacquered)	AL 1700 D
chrome	GCR 1700
gold-coloured	GO 1700
classic brass	ME 1700 C
antique brass	ME 1700 AT



LS range



Ref.-no.

Standard centre plate "arrows"

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE
for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1720 NE, 1723 NE, 1708 IE

Duroplastic (scratch-proof) glossy

ivory	LS 1700 P
white	LS 1700 P WW
light grey	LS 1700 P LG
black	LS 1700 P SW

matt lacquered

matt snow white	LS 1700 P WWM
matt graphite black	LS 1700 P SWM

metal versions

aluminium	AL 1700 P
stainless steel	ES 1700 P
anthracite (aluminium lacquered)	AL 1700 P AN
dark (aluminium lacquered)	AL 1700 P D
chrome	GCR 1700 P
gold-coloured	GO 1700 P
classic brass	ME 1700 P C
antique brass	ME 1700 P AT

Universal centre plate

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE
for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE

Duroplastic (scratch-proof) glossy

ivory	LS 1701
white	LS 1701 WW
light grey	LS 1701 LG
black	LS 1701 SW

matt lacquered

matt snow white	LS 1701 WWM
matt graphite black	LS 1701 SWM

metal versions

aluminium	AL 1701
stainless steel	ES 1701
anthracite (aluminium lacquered)	AL 1701 AN
dark (aluminium lacquered)	AL 1701 D
chrome	GCR 1701
gold-coloured	GO 1701
classic brass	ME 1701 C
antique brass	ME 1701 AT

Ref.-no.

Universal centre plate "arrows"

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE
for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE,
1710 DE, 1711 DE, 1713 DSTE, 1723 NE

Duroplastic (scratch-proof) glossy

ivory	LS 1701 P
white	LS 1701 P WW
light grey	LS 1701 P LG
black	LS 1701 P SW

matt lacquered

matt snow white	LS 1701 P WWM
matt graphite black	LS 1701 P SWM

metal versions

aluminium	AL 1701 P
stainless steel	ES 1701 P
anthracite (aluminium lacquered)	AL 1701 P AN
dark (aluminium lacquered)	AL 1701 P D
chrome	GCR 1701 P
gold-coloured	GO 1701 P
classic brass	ME 1701 P C
antique brass	ME 1701 P AT

Standard centre plate 2-gang

for LB Management inserts "light" ref.-no.: 1702 SE, 1712 DE, 1713 DSTE, 1723 NE

Duroplastic (scratch-proof) glossy

ivory	LS 1702
white	LS 1702 WW
light grey	LS 1702 LG
black	LS 1702 SW

matt lacquered

matt snow white	LS 1702 WWM
matt graphite black	LS 1702 SWM

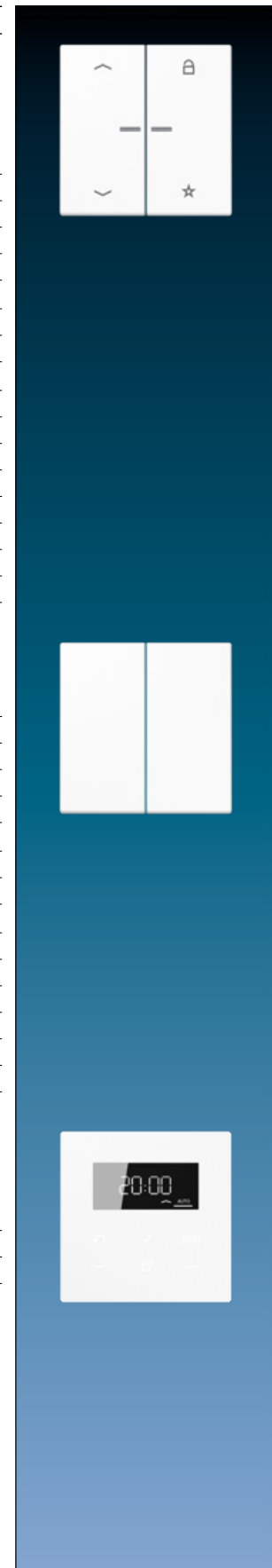
metal versions

aluminium	 AL 1702
stainless steel	 ES 1702
anthracite (aluminium lacquered)	AL 1702 AN
dark (aluminium lacquered)	AL 1702 D
classic brass	ME 1702 C
antique brass	ME 1702 AT

Standard timer with display

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE
for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE,
1710 DE, 1711 DE, 1713 DSTE, 1723 NE

white	LS 1750 D WW
black	LS 1750 D SW



LS range



Ref.-no.

Universal timer Bluetooth

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE
for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE,
1710 DE, 1711 DE, 1713 DSTE, 1723 NE

Duroplastic (scratch-proof) glossy

ivory	LS 1751 BT
white	LS 1751 BT WW
light grey	LS 1751 BT LG
black	LS 1751 BT SW

matt lacquered

matt snow white	LS 1751 BT WWM
matt graphite black	LS 1751 BT SWM

metal versions

aluminium	AL 1751 BT
stainless steel	ES 1751 BT
anthracite (aluminium lacquered)	AL 1751 BT AN
dark (aluminium lacquered)	AL 1751 BT D
chrome	GCR 1751 BT
gold-coloured	GO 1751 BT
classic brass	ME 1751 BT C
antique brass	ME 1751 BT AT

Universal timer Bluetooth "arrows"

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE
for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE,
1710 DE, 1711 DE, 1713 DSTE, 1723 NE

Duroplastic (scratch-proof) glossy

ivory	LS 1751 PBT
white	LS 1751 PBT WW
light grey	LS 1751 PBT LG
black	LS 1751 PBT SW

matt lacquered

matt snow white	LS 1751 PBT WWM
matt graphite black	LS 1751 PBT SWM

metal versions

aluminium	AL 1751 PBT
stainless steel	ES 1751 PBT
anthracite (aluminium lacquered)	AL 1751 PBT AN
dark (aluminium lacquered)	AL 1751 PBT D
chrome	GCR 1751 PBT
gold-coloured	GO 1751 PBT
classic brass	ME 1751 PBT C
antique brass	ME 1751 PBT AT

Ref.-no.

eNet Standard radio centre plate

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE
for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE,
1710 DE, 1711 DE, 1713 DSTE, 1723 NE

Duroplastic (scratch-proof) glossy

ivory	FM LS 1700
white	FM LS 1700 WW
light grey	FM LS 1700 LG
black	FM LS 1700 SW

matt lacquered

matt snow white	FM LS 1700 WWM
matt graphite black	FM LS 1700 SWM

metal versions

aluminium	 FM AL 1700
stainless steel	 FM ES 1700
anthracite (aluminium lacquered)	FM AL 1700 AN
dark (aluminium lacquered)	FM AL 1700 D
chrome	FM GCR 1700
gold-coloured	FM GO 1700
classic brass	FM ME 1700 C
antique brass	FM ME 1700 AT

eNet Standard radio centre plate "arrows"

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE
for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE,
1710 DE, 1711 DE, 1713 DSTE, 1723 NE

Duroplastic (scratch-proof) glossy

ivory	FM LS 1700 P
white	FM LS 1700 P WW
light grey	FM LS 1700 P LG
black	FM LS 1700 P SW

matt lacquered

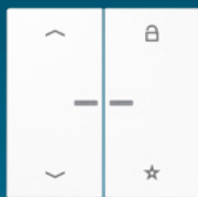
matt snow white	FM LS 1700 P WWM
matt graphite black	FM LS 1700 P SWM

metal versions

aluminium	FM AL 1700 P
stainless steel	FM ES 1700 P
anthracite (aluminium lacquered)	FM AL 1700 P AN
dark (aluminium lacquered)	FM AL 1700 P D
chrome	FM GCR 1700 P
gold-coloured	FM GO 1700 P
classic brass	FM ME 1700 P C
antique brass	FM ME 1700 P AT



LS range



Ref.-no.

eNet radio centre plate

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE

for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE



Duroplastic (scratch-proof) glossy

ivory	FM LS 1701
white	FM LS 1701 WW
light grey	FM LS 1701 LG
black	FM LS 1701 SW

matt lacquered

matt graphite black	FM LS 1701 SWM
matt snow white	FM LS 1701 WWM

metal versions

aluminium	 FM AL 1701
stainless steel	 FM ES 1701
anthracite (aluminium lacquered)	FM AL 1701 AN
dark (aluminium lacquered)	FM AL 1701 D
chrome	FM GCR 1701
gold-coloured	FM GO 1701
classic brass	FM ME 1701 C
antique brass	FM ME 1701 AT

eNet radio centre plate "arrows"

for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE

for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE

Duroplastic (scratch-proof) glossy

ivory	FM LS 1701 P
white	FM LS 1701 P WW
light grey	FM LS 1701 P LG
black	FM LS 1701 P SW

matt lacquered

matt graphite black	FM LS 1701 P SWM
matt snow white	FM LS 1701 P WWM

metal versions

aluminium	FM AL 1701 P
stainless steel	FM ES 1701 P
anthracite (aluminium lacquered)	FM AL 1701 P AN
dark (aluminium lacquered)	FM AL 1701 P D
chrome	FM GCR 1701 P
gold-coloured	FM GO 1701 P
classic brass	FM ME 1701 P C
antique brass	FM ME 1701 P AT

Ref.-no.

Standard automatic switch 1.1 m

for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

Thermoplastic (breakproof) high-gloss

ivory	LS 17180
white	LS 17180 WW
light grey	LS 17180 LG
black	LS 17180 SW

matt lacquered

matt snow white	LS 17180 WWM
matt graphite black	LS 17180 SWM

metal colours (thermoplastic lacquered)

aluminium (lacquered)	AL 17180
stainless steel (lacquered)	ES 17180
anthracite (lacquered)	AL 17180 AN
dark (lacquered)	AL 17180 D
classic brass (lacquered)	ME 17180 C
antique brass (lacquered)	ME 17180 AT

Standard automatic switch 1.1 m

for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

IP 44 suitable only for indoor installation

Thermoplastic (breakproof) high-gloss

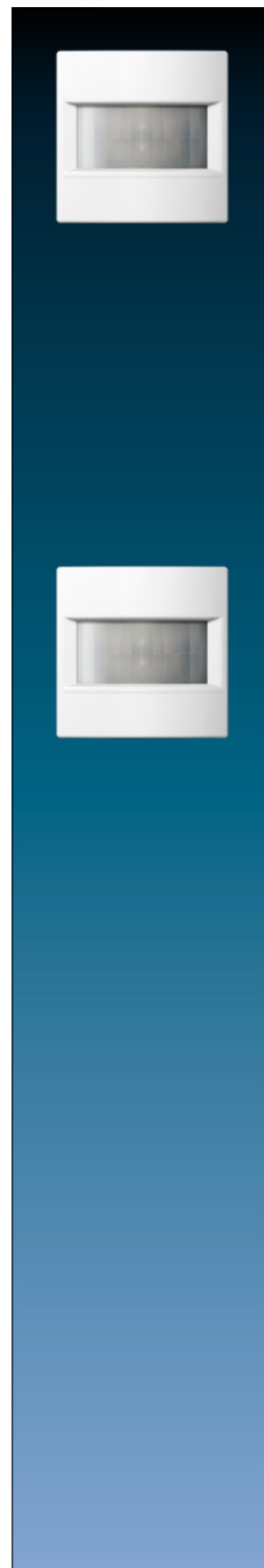
ivory	IP	LS 17180 WU
white	IP	LS 17180 WU WW
light grey	IP	LS 17180 WU LG
black	IP	LS 17180 WU SW

matt lacquered

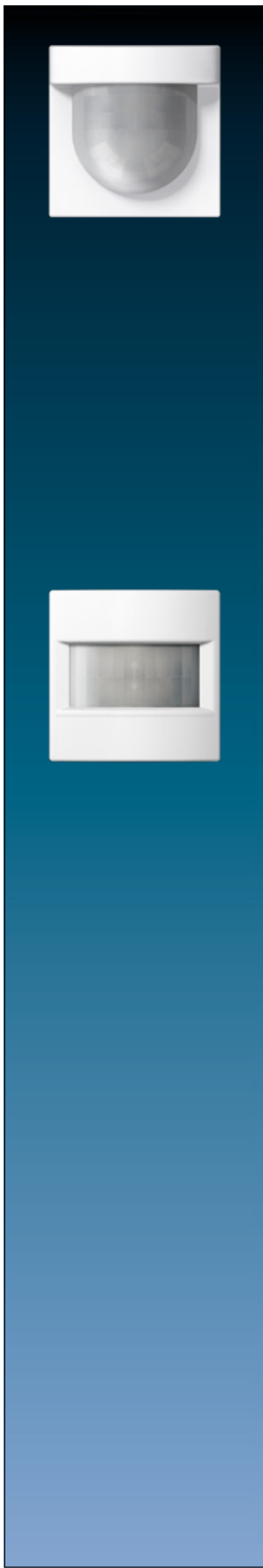
matt snow white	IP	LS 17180 WU WWM
matt graphite black	IP	LS 17180 WU SWM

metal colours (thermoplastic lacquered)

aluminium (lacquered)	IP	AL 17180 WU
stainless steel (lacquered)	IP	ES 17180 WU
anthracite (lacquered)	IP	AL 17180 WU AN
dark (lacquered)	IP	AL 17180 WU D
classic brass (lacquered)	IP	ME 17180 WU C
antique brass (lacquered)	IP	ME 17180 WU AT



LS range



Ref.-no.

Standard automatic switch 2.2 m

for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

IP 44 suitable only for indoor installation

Thermoplastic (breakproof) high-gloss

ivory	IP	LS 17280
white	IP	LS 17280 WW
light grey	IP	LS 17280 LG
black	IP	LS 17280 SW

matt lacquered

matt snow white	IP	LS 17280 WWM
matt graphite black	IP	LS 17280 SWM

metal colours (thermoplastic lacquered)

aluminium (lacquered)	IP	AL 17280
stainless steel (lacquered)	IP	ES 17280
anthracite (lacquered)	IP	AL 17280 AN
dark (lacquered)	IP	AL 17280 D
classic brass (lacquered)	IP	ME 17280 C
antique brass (lacquered)	IP	ME 17280 AT

Universal automatic switch 1.1 m

for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

Thermoplastic (breakproof) high-gloss

ivory	LS 17181
white	LS 17181 WW
light grey	LS 17181 LG
black	LS 17181 SW

matt lacquered

matt snow white	LS 17181 WWM
matt graphite black	LS 17181 SWM

metal colours (thermoplastic lacquered)

aluminium (lacquered)	AL 17181
stainless steel (lacquered)	ES 17181
anthracite (lacquered)	AL 17181 AN
dark (lacquered)	AL 17181 D
classic brass (lacquered)	ME 17181 C
antique brass (lacquered)	ME 17181 AT

Ref.-no.

Universal automatic switch 1.1 m

for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

IP 44 suitable only for indoor installation

Thermoplastic (breakproof) high-gloss

ivory	IP	LS 17181 WU
white	IP	LS 17181 WU WW
light grey	IP	LS 17181 WU LG
black	IP	LS 17181 WU SW

matt lacquered

matt snow white	IP	LS 17181 WU WWM
matt graphite black	IP	LS 17181 WU SWM

metal colours (thermoplastic lacquered)

aluminium (lacquered)	IP	AL 17181 WU
stainless steel (lacquered)	IP	ES 17181 WU
anthracite (lacquered)	IP	AL 17181 WU AN
dark (lacquered)	IP	AL 17181 WU D
classic brass (lacquered)	IP	ME 17181 WU C
antique brass (lacquered)	IP	ME 17181 WU AT

Universal automatic switch 2.2 m

for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1723 NE, 1708 IE

IP 44 suitable for indoor and outdoor installation

Thermoplastic (breakproof) high-gloss

ivory	IP	LS 17281
white	IP	LS 17281 WW
light grey	IP	LS 17281 LG
black	IP	LS 17281 SW

matt lacquered

matt snow white	IP	LS 17281 WWM
matt graphite black	IP	LS 17281 SWM

metal colours (thermoplastic lacquered)

aluminium (lacquered)	IP	AL 17281
stainless steel (lacquered)	IP	ES 17281
anthracite (lacquered)	IP	AL 17281 AN
dark (lacquered)	IP	AL 17281 D
classic brass (lacquered)	IP	ME 17281 C
antique brass (lacquered)	IP	ME 17281 AT

Sealing kit

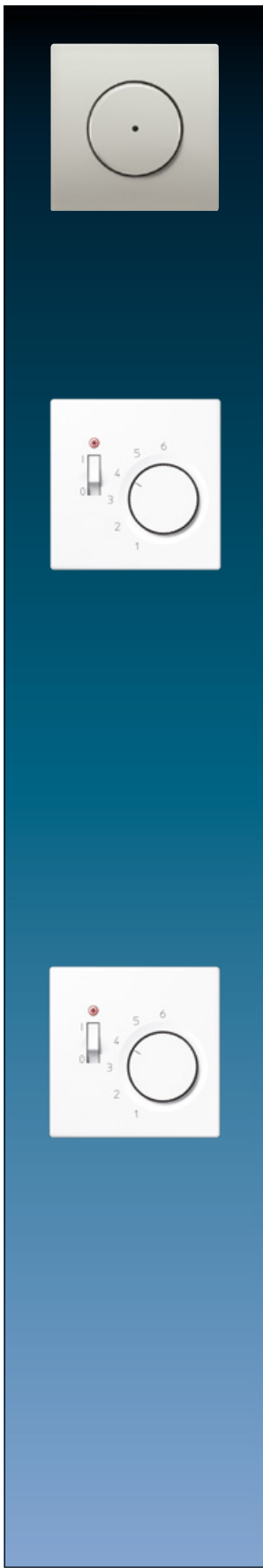
for automatic switches 2.2 m of the CD and LS ranges

IP AS CD 50 DS

To obtain protection level IP 44



LS range



Ref.-no.

Electronic timer, 230 V~, 1500 VA

The device is operated simply by pressing the button. After a previously set time delay the timer switches off automatically. The activated time delay can be stopped by pressing the button again. 1-pole switch contact, with status LED, satellite operation possible

time delay 1 – 60 min.

aluminium	AL 1060 ET
stainless steel	ES 1060 ET
anthracite (aluminium lacquered)	AL 1060 ET AN

time delay 1 – 8 hours

aluminium	AL 10.480 ET
stainless steel	ES 10.480 ET
anthracite (aluminium lacquered)	AL 10.480 ET AN

Room thermostat (1-way contact)

1-pole NC contact 10 (4) A, AC 230 V ~, 50/60 Hz

Thermoplastic (breakproof) high-gloss

ivory	TR LS 231
white	TR LS 231 WW
light grey	TR LS 231 LG
black	TR LS 231 SW

matt lacquered

matt snow white	TR LS 231 WWM
matt graphite black	TR LS 231 SWM

metal versions

aluminium	TR AL 231
stainless steel	TR ES 231
anthracite (aluminium lacquered)	TR AL 231 AN
dark (aluminium lacquered)	TR AL 231 D
chrome	TR GCR 231
gold-coloured	TR GO 231
gold-plated	TR LS 231 GGO
classic brass	TR ME 231 C
antique brass	TR ME 231 AT

Room thermostat (1-way contact)

1-pole NC contact 10 (4) A, AC 24 V ~

Thermoplastic (breakproof) high-gloss

ivory	TR LS 241
white	TR LS 241 WW
light grey	TR LS 241 LG
black	TR LS 241 SW

metal versions

aluminium	TR AL 241
stainless steel	TR ES 241
anthracite (aluminium lacquered)	TR AL 241 AN
dark (aluminium lacquered)	TR AL 241 D
chrome	TR GCR 241
gold-coloured	TR GO 241
gold-plated	TR LS 241 GGO
classic brass	TR ME 241 C
antique brass	TR ME 241 AT

Ref.-no.

Room thermostat (2-way contact)

1-pole, 2-way, heating 10 (4) A, AC 230 V ~, 50/60 Hz

1-pole, 2-way, cooling 5 (2) A, AC 230 V ~, 50/60 Hz

For switching between heating/cooling the EBERLE terminal strip EV..H/K is necessary.

Thermoplastic (breakproof) high-gloss

ivory	TR LS 236
white	TR LS 236 WW
light grey	TR LS 236 LG
black	TR LS 236 SW

matt lacquered

matt snow white	TR LS 236 WWM
matt graphite black	TR LS 236 SWM

metal versions

aluminium	TR AL 236
stainless steel	TR ES 236
anthracite (aluminium lacquered)	TR AL 236 AN
dark (aluminium lacquered)	TR AL 236 D
chrome	TR GCR 236
gold-coloured	TR GO 236
gold-plated	TR LS 236 GGO
classic brass	TR ME 236 C
antique brass	TR ME 236 AT

Room thermostat (2-way contact)

1-pole, 2-way, heating 10 (4) A, AC 24 V ~

1-pole, 2-way, cooling 5 (2) A, AC 24 V ~

Thermoplastic (breakproof) high-gloss

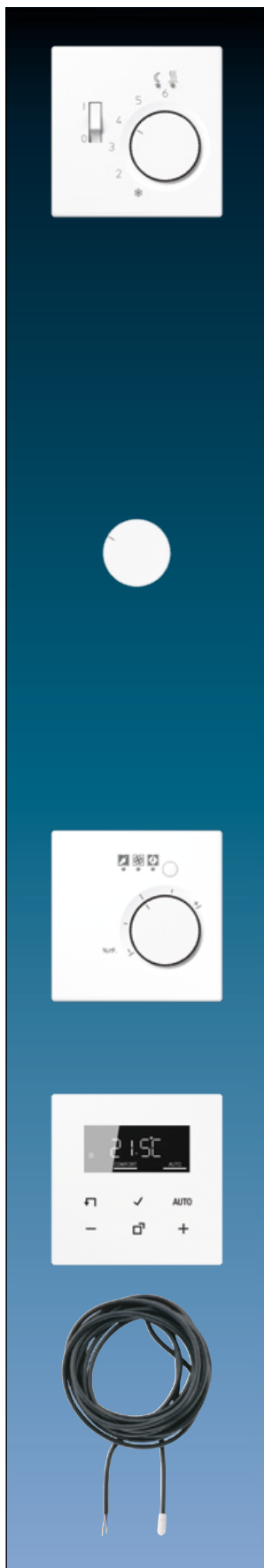
ivory	TR LS 246
white	TR LS 246 WW
light grey	TR LS 246 LG
black	TR LS 246 SW

metal versions

aluminium	TR AL 246
stainless steel	TR ES 246
anthracite (aluminium lacquered)	TR AL 246 AN
dark (aluminium lacquered)	TR AL 246 D
chrome	TR GCR 246
gold-coloured	TR GO 246
gold-plated	TR LS 246 GGO
classic brass	TR ME 246 C
antique brass	TR ME 246 AT



LS range



Ref.-no.

Floor thermostat

1-pole NO contact 10 A, AC 230 V ~, 50/60 Hz

Thermoplastic (breakproof) high-gloss

ivory	FTR LS 231
white	FTR LS 231 WW
light grey	FTR LS 231 LG
black	FTR LS 231 SW

metal versions

aluminium	FTR AL 231
stainless steel	FTR ES 231
anthracite (aluminium lacquered)	FTR AL 231 AN
dark (aluminium lacquered)	FTR AL 231 D
chrome	FTR GCR 231
gold-coloured	FTR GO 231
gold-plated	FTR LS 231 GGO
classic brass	FTR ME 231 C
antique brass	FTR ME 231 AT

Special knob, manipulation-proof

ivory	MS TR 231
white	MS TR 231 WW
light grey	MS TR 231 LG
black	MS TR 231 SW

for metal versions

aluminium (lacquered)	MS TR 231 AL
stainless steel (lacquered)	MS TR 231 ES
anthracite (lacquered)	MS TR 231 AL AN

The set temperature can no longer be changed after the knob has been "locked".
Dismounting only possible with tool.

Humidistat

Thermoplastic (breakproof) high-gloss

ivory	LS 5201 HYG
white	LS 5201 HYG WW
black	LS 5201 HYG SW

metal versions

aluminium	AL 5201 HYG
stainless steel	ES 5201 HYG
anthracite (aluminium lacquered)	AL 5201 HYG AN

Room thermostat with display standard

consists of room thermostat insert (ref.-no.: 1790 RTR) and display (ref.-no.: .. 1790 D ..)

white	TR D LS 1790 WW
black	TR D LS 1790 SW

External temperature sensor

for room thermostat ref.-no. 1790 RTR, TR D .. 1790 ..

spare part for floor thermostat ref.-no. FTR .. 231 ..

FF 7.8

Also suitable as external temperature sensor for the following KNX devices,
ref.-no.: .. 2178 TS .., .. 2178 ORTS .., .. 5192 KRM TS D, .. 5194 KRM TS D, 2177 SV R, 23066 REGHE

Technical data

NTC sensor in plastic cap 7.8 mm Ø

Cable length: 4 m

Ambient temperature: -25 ... +70 °C

Ref.-no.

Temperature controller fan coil, 2-pipe

white	TRD LS 923028 WW
black	TRD LS 923028 SW

Temperature controller fan coil, 4-pipe

white	TRD LS 923048 WW
black	TRD LS 923048 SW

Friends of Hue switch set

4-channel
 max. 4 light scenes
 including mounting plate, adhesive film and fastening screw
 including LS 990 frame ref.: LS 981 WW

Thermoplastic (breakproof) high-gloss

white	FOHS LS 995 WW
-------	----------------

Bluetooth Low Energy radio transmitter

2-channel
 including mounting plate, adhesive film and fastening screw

Thermoplastic (breakproof) high-gloss

white	BLE LS 990 WW
black	BLE LS 990 SW

Bluetooth Low Energy radio transmitter

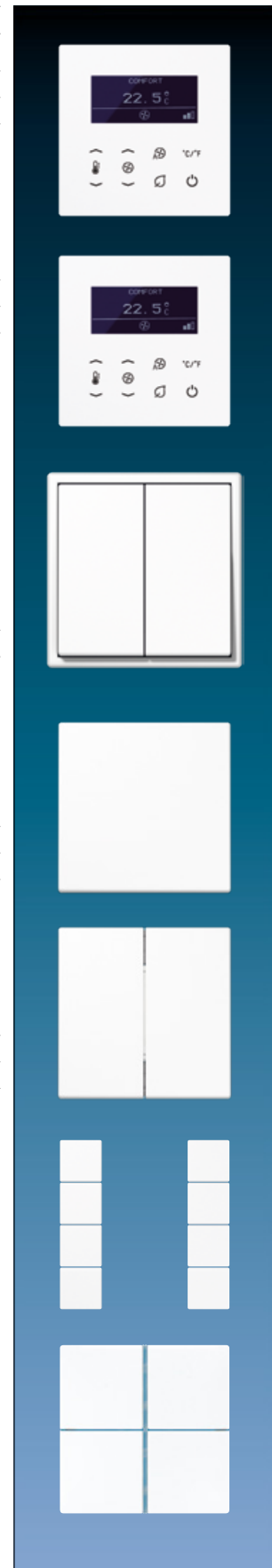
4-channel
 including mounting plate, adhesive film and fastening screw

Thermoplastic (breakproof) high-gloss

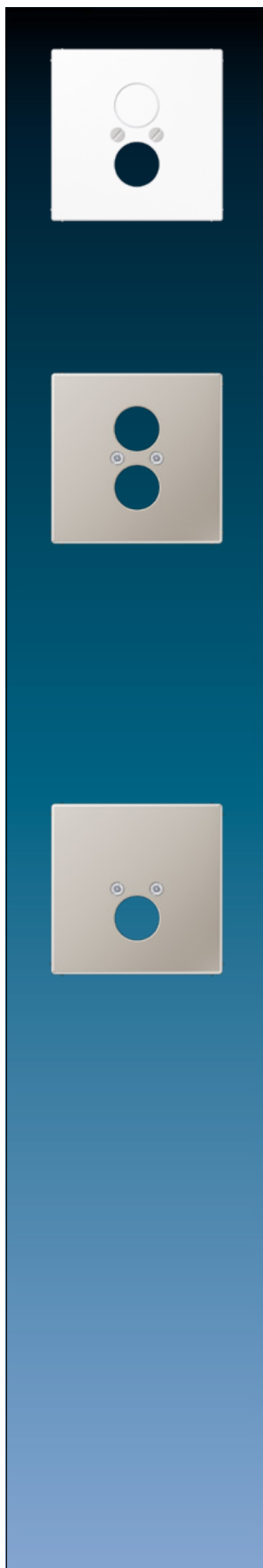
white	BLE LS 995 WW
black	BLE LS 995 SW

Cover kits F50 see as of page 668

Cover kits F40 see as of page 673



LS range



Ref.-no.

Centre plate

with supporting frame, screw fixing only

for 2 loudspeaker sockets up to 18.5 mm Ø or with flange mounting 22.5 mm hole spacing.

In connection with mounting plate ref.-no. 63 WBT (not included) for loudspeaker terminal ref.-no. LPK 63 RT/SW and RCA socket ref.-no. CIB 63.

Second hole can be broken out.

Duroplastic (scratch-proof) glossy

ivory	P	LS 962
white	P	LS 962 WW
light grey	P	LS 962 LG
black		LS 962 SW

Centre plate

with supporting frame, screw fixing only

for 2 loudspeaker sockets up to 18.5 mm Ø or with flange mounting 22.5 mm hole spacing.

In connection with mounting plate ref.-no. 63 WBT (not included) for loudspeaker terminal ref.-no. LPK 63 RT/SW and RCA socket ref.-no. CIB 63.

metal versions

aluminium	P	L	AL 2962-2
stainless steel		L	ES 2962-2
anthracite (aluminium lacquered)			AL 2962-2 AN
dark (aluminium lacquered)			AL 2962-2 D
chrome			GCR 2962-2
gold-coloured			GO 2962-2
gold-plated			LS 962 GGO
classic brass	P		ME 2962-2 C
antique brass			ME 2962-2 AT

Centre plate

with supporting frame, screw fixing only

for 1 loudspeaker socket up to 18.5 mm Ø or with flange mounting 22.5 mm hole spacing.

In connection with mounting plate ref.-no. 63 WBT (not included) for loudspeaker terminal ref.-no. LPK 63 RT/SW and RCA socket ref.-no. CIB 63.

metal versions





aluminium	P	L	AL 2962-1
stainless steel		L	ES 2962-1
anthracite (aluminium lacquered)			AL 2962-1 AN
dark (aluminium lacquered)			AL 2962-1 D
chrome			GCR 2962-1
gold-coloured			GO 2962-1
classic brass	P		ME 2962-1 C
antique brass			ME 2962-1 AT

Ref.-no.

Centre plate

for TV-FM sockets ref.-no.: EDU 04 F, GEDU 10, GEDU 15


Thermoplastic (breakproof) high-gloss

ivory	 LS 990 TV
white	 LS 990 TV WW
light grey	 LS 990 TV LG
black	 LS 990 TV SW

matt lacquered

matt snow white	LS 990 TV WWM
matt graphite black	LS 990 TV SWM

metal versions





aluminium	  AL 2990 TV
stainless steel	 ES 2990 TV
anthracite (aluminium lacquered)	AL 2990 TV AN
dark (aluminium lacquered)	AL 2990 TV D
chrome	GCR 2990 TV
gold-coloured	GO 2990 TV
gold-plated	LS 990 TV GGO
classic brass	 ME 2990 TV C
antique brass	ME 2990 TV AT

Centre plate

for SAT-TV-FM socket outlet inserts ref.-no.: EDA 302 F, GDA 313 F

for standard SAT-TV-FM sockets





Thermoplastic (breakproof) high-gloss

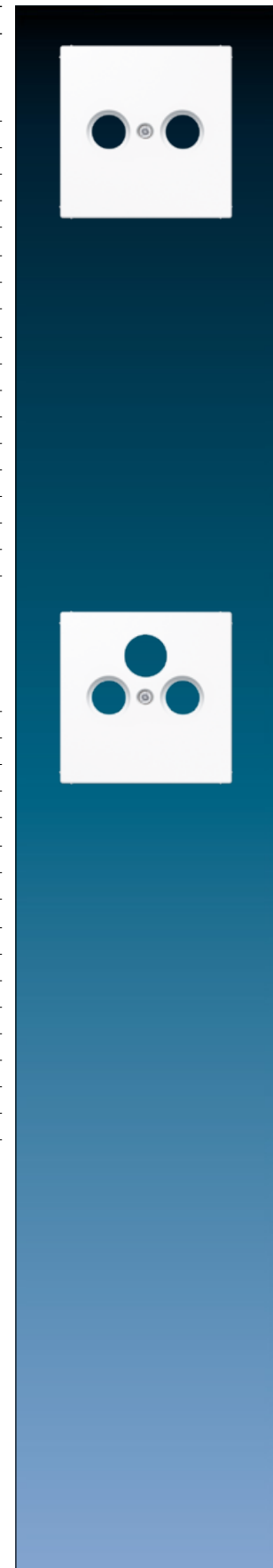
ivory	 LS 990 SAT
white	 LS 990 SAT WW
light grey	 LS 990 SAT LG
black	 LS 990 SAT SW

matt lacquered

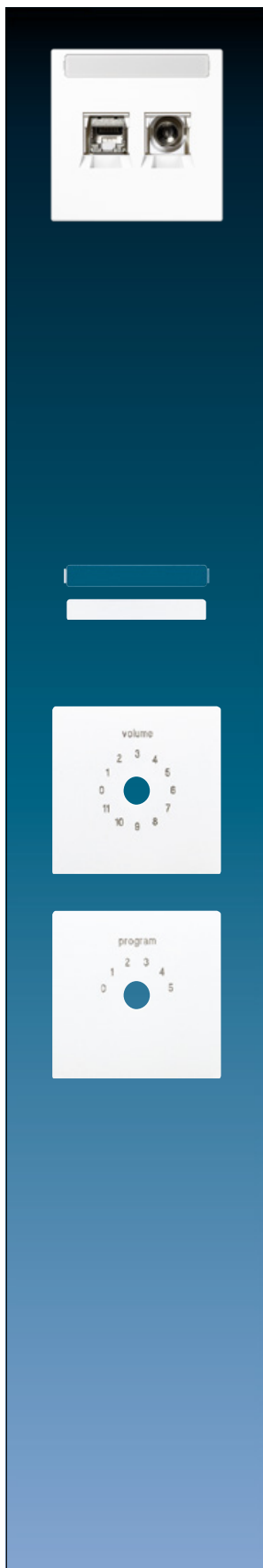
matt snow white	LS 990 SAT WWM
matt graphite black	LS 990 SAT SWM

metal versions

aluminium	  AL 2990 SAT
stainless steel	 ES 2990 SAT
anthracite (aluminium lacquered)	AL 2990 SAT AN
dark (aluminium lacquered)	AL 2990 SAT D
chrome	GCR 2990 SAT
gold-coloured	GO 2990 SAT
classic brass	 ME 2990 SAT C
antique brass	ME 2990 SAT AT



LS range



Ref.-no.

Smart TV socket

with supporting frame, screw fixing only

cover with snap-on fixing and shutter with spring

with inscription field 9 x 58 mm

including universal modular jack socket ref.-no.: UMA-CAT6A and IEC plug module for antenna cables

Thermoplastic (breakproof) high-gloss

white

MMD LS 4521 WW

Technical data

Specification IEC plug module

External connection: coaxial plug IEC 60169-2

Internal connection: F socket IEC 60169-24

Impedance: 75 Ohm

Frequency range: 5 ... 2,400 MHz

Attenuation: 0.0 dB

Installation depth not considering cables

Universal modular jack socket: 40 mm

IEC plug module: 30 mm

Use right angle plug.

Consider bending radius. Ensure sufficient installation space.

Transparent cover with paper inlay

for inscription field 9 x 58 mm

(Spare part)

paper inlay white

CD 90 NA

Centre plate for volume control (0 – 11):

Dynacord L 314 / L 3100

discontinued: WHD LSt 6 CD- / LSt 50 CD- / LR 15..CD

for available WHD inserts see covers with ref.-no. .. 1541 .. or .. 1941 ..

Thermoplastic (breakproof) high-gloss

white

LS 594-8 WW

Centre plate for program selection (0 – 5):

Dynacord L 314 SR / L 3100 SR

WHD PRO 3 CD..

Thermoplastic (breakproof) high-gloss

white

LS 594-9 WW

Ref.-no.

Electronic door signal AC 8 – 12 V ~ / DC 12 – 17 V

with supporting frame, screw fixing only

Thermoplastic (breakproof) high-gloss

ivory	LS 967 S
white	LS 967 S WW

matt lacquered

matt snow white	LS 967 S WWM
matt graphite black	LS 967 S SWM

metal colours (thermoplastic lacquered)

aluminium (lacquered)	AL 2967 S
stainless steel (lacquered)	ES 2967 S
anthracite (lacquered)	AL 2967 S AN

Technical data

Loudness:	approx. 82 dB(A) (sound 1, approx. 800 Hz), distance 1 m and AC 12 V ~ (Piezo, with sound generator) approx. 96 dB(A) (sound 2, approx. 3000 Hz), distance 1 m and AC 12 V ~ (Piezo, with sound generator)
Terminals:	~ 1 sound 1 (approx. 800 Hz) ~ 2 sound 2 (approx. 3,000 Hz)
Current consumption:	approx. 24 mA at AC 12 V ~ approx. 12 mA at DC 12 V

Triple-tone door signal

with supporting frame, screw fixing only

Thermoplastic (breakproof) high-gloss

ivory	LS 2567-G3
white	LS 2567-G3 WW

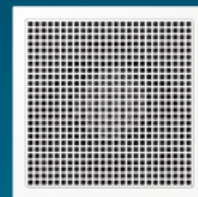
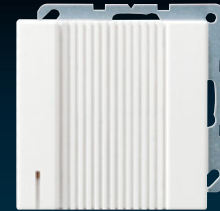
matt lacquered

matt snow white	LS 2567-G3 WWM
matt graphite black	LS 2567-G3 SWM

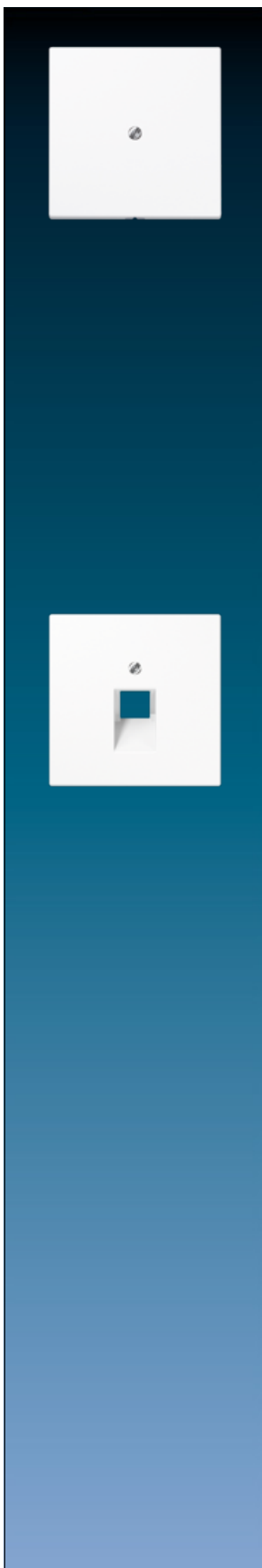
metal versions

aluminium	AL 2567-G3
stainless steel	ES 2567-G3
anthracite (aluminium lacquered)	AL 2567-G3 AN

2 separate terminals for 2 or 3 tone signal
power supply: 8 ... 12 V AC or 8 ... 24 V DC, via external power supply (SELV) e.g.
ref.-no. NT 2405 VDC or NT 2415 REG VDC
current consumption: approx. 150 mA



LS range



Ref.-no.

Cable outlet

with supporting frame, screw fixing only
opening for cables with max. 8 mm Ø

Duroplastic (scratch-proof) glossy

ivory	P	LS 990 A
white	P	LS 990 A WW
light grey	P	LS 990 A LG
black		LS 990 A SW

matt lacquered

matt snow white	LS 990 A WWM
matt graphite black	LS 990 A SWM

metal versions

aluminium	P L	AL 2990 A
stainless steel	L	ES 2990 A
anthracite (aluminium lacquered)		AL 2990 A AN
dark (aluminium lacquered)		AL 2990 A D
chrome		GCR 2990 A
gold-coloured		GO 2990 A
classic brass	P	ME 2990 A C
antique brass		ME 2990 A AT

Centre plate

for 1-gang modular jack sockets
IAE/UAE sockets ref.-no.: UAE 8 UPO
for sockets Cat. 6 ref.-no.: UAE 8 UPOK6
(1 x 8-pol.)

for WLAN access point ref.-no.: WLAN-AC-UAE, WLAN-AC-POE-UAE

Thermoplastic (breakproof) high-gloss

ivory	L	LS 969-1 UA
white	L	LS 969-1 UA WW
light grey	L	LS 969-1 UA LG
black	L	LS 969-1 UA SW

matt lacquered

matt snow white	LS 969-1 UA WWM
matt graphite black	LS 969-1 UA SWM

metal versions

aluminium	P L	AL 2969-1 UA
stainless steel	L	ES 2969-1 UA
anthracite (aluminium lacquered)		AL 2969-1 UA AN
dark (aluminium lacquered)		AL 2969-1 UA D
chrome		GCR 2969-1 UA
gold-coloured		GO 2969-1 UA
gold-plated		LS 969-1 UA GGO
classic brass	P	ME 2969-1 UA C
antique brass		ME 2969-1 UA AT

Suitable inserts:

Rutenbeck: UAE 8(4) UPO, UAE 8(8) UPO, UAE-Cat.5e-8 UPO OK, UAE-real.Cat.6-8 UPO OK
Telegärtner: AMJ 45, UMJ 45 and ISDN 1 x RJ 45 (TYP 8)

Ref.-no.

Centre plate with inscription field 9 x 58 mm

for 1-gang modular jack sockets

IAE/UAE sockets ref.-no.: UAE 8 UPO

for sockets Cat. 6 ref.-no.: UAE 8 UPOK6

(1 x 8-pol.)

for WLAN access point ref.-no.: WLAN-AC-UAE, WLAN-AC-POE-UAE

Thermoplastic (breakproof) high-gloss

ivory	LS 969-1 NAUA
white	LS 969-1 NAUA WW
light grey	LS 969-1 NAUA LG
black	LS 969-1 NAUA SW

matt lacquered

matt snow white	LS 969-1 NAUA WWM
matt graphite black	LS 969-1 NAUA SWM

metal versions, with inscription field 12 x 55 mm

aluminium	AL 2969-1 NAUA
stainless steel	ES 2969-1 NAUA
anthracite (aluminium lacquered)	AL 2969-1 NAUA AN
dark (aluminium lacquered)	AL 2969-1 NAUA D
chrome	GCR 2969-1 NAUA
classic brass	ME 2969-1 NAUA C
antique brass	ME 2969-1 NAUA AT

Suitable inserts:

Rutenbeck: UAE 8(4) UPO, UAE 8(8) UPO, UAE-Cat.5e-8 UPO OK, UAE-real.Cat.6-8 UPO OK

Telegärtner: AMJ 45, UMJ 45 and ISDN 1 x RJ 45 (TYP 8)

Transparent cover with paper inlay

for inscription field 9 x 58 mm

(Spare part)

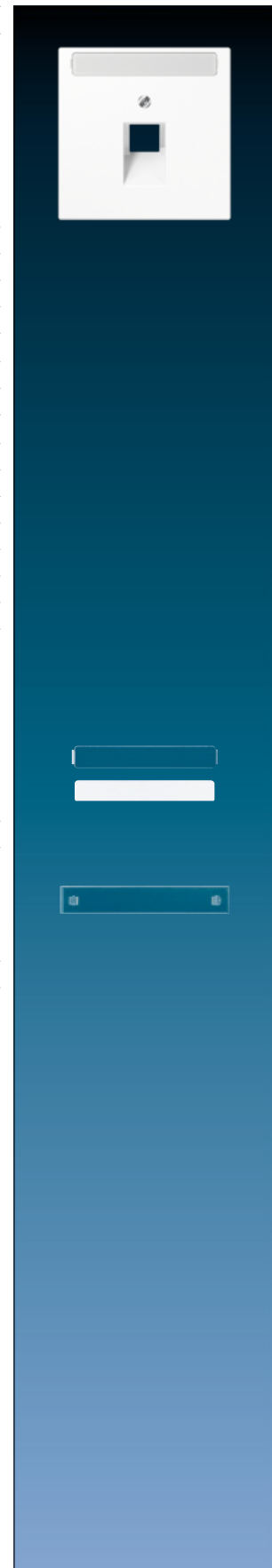
paper inlay white	CD 90 NA
-------------------	----------

Transparent cover

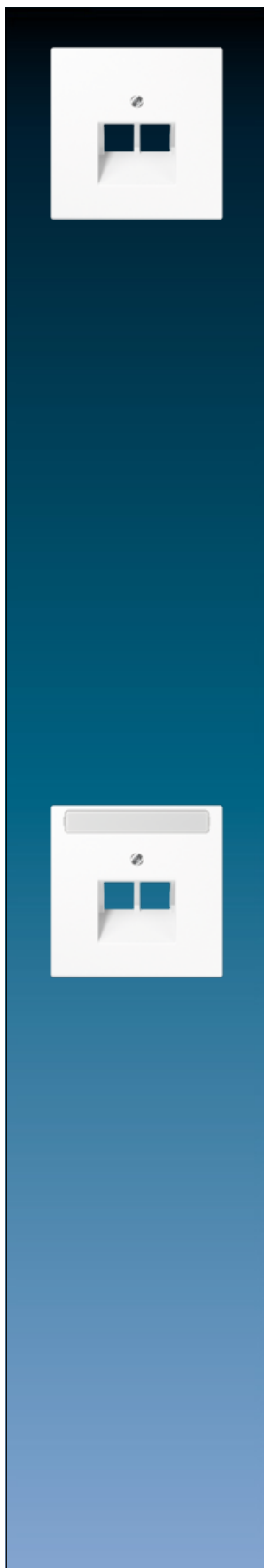
for inscription field 12 x 55 mm

(Spare part)

M 20 NA



LS range



Ref.-no.

Centre plate

for 2-gang modular jack sockets
IAE/UAE sockets ref.-no.: UAE 2 x 8 UPO, UAE 8-8 UPO
for sockets Cat. 6 ref.-no.: UAE 8-8 UPOK6
(2 x 8-pol.)
for media converter 2-gang ref.-no.: MK-POF-2UAE

Thermoplastic (breakproof) high-gloss

ivory	LS 969-2 UA
white	LS 969-2 UA WW
light grey	LS 969-2 UA LG
black	LS 969-2 UA SW

matt lacquered

matt snow white	LS 969-2 UA WWM
matt graphite black	LS 969-2 UA SWM

metal versions

aluminium	AL 2969-2 UA
stainless steel	ES 2969-2 UA
anthracite (aluminium lacquered)	AL 2969-2 UA AN
dark (aluminium lacquered)	AL 2969-2 UA D
chrome	GCR 2969-2 UA
gold-coloured	GO 2969-2 UA
gold-plated	LS 969-2 UA GGO
classic brass	ME 2969-2 UA C
antique brass	ME 2969-2 UA AT

Suitable inserts:

METZ CONNECT (BTR): 1307441001-i or 1307441200-i; E-Dat design 8/8(8), Class E
Rutenbeck: UAE 8/8 (8/8) UPO, UAE 2x8 (8) UPO, UAE-Cat.5e-8/8 UPO OK, UAE-real.Cat.6-8/8 UPO OK
Telegärtner: AMJ 45, UMJ 45 and ISDN 2 x RJ 45 (TYP 8/8)

Centre plate with inscription field 9 x 58 mm

for 2-gang modular jack sockets
IAE/UAE sockets ref.-no.: UAE 2 x 8 UPO, UAE 8-8 UPO
for sockets Cat. 6 ref.-no.: UAE 8-8 UPOK6
(2 x 8-pol.)
for media converter 2-gang ref.-no.: MK-POF-2UAE

Thermoplastic (breakproof) high-gloss

ivory	LS 969-2 NAUA
white	LS 969-2 NAUA WW
light grey	LS 969-2 NAUA LG
black	LS 969-2 NAUA SW

matt lacquered

matt snow white	LS 969-2 NAUA WWM
matt graphite black	LS 969-2 NAUA SWM

metal versions, with inscription field 12 x 55 mm

aluminium	AL 2969-2 NAUA
stainless steel	ES 2969-2 NAUA
anthracite (aluminium lacquered)	AL 2969-2 NAUA AN
dark (aluminium lacquered)	AL 2969-2 NAUA D
chrome	GCR 2969-2 NAUA
classic brass	ME 2969-2 NAUA C
antique brass	ME 2969-2 NAUA AT

Suitable inserts:

METZ CONNECT (BTR): 1307441001-i or 1307441200-i; E-Dat design 8/8(8), Class E
Rutenbeck: UAE 8/8 (8/8) UPO, UAE 2x8 (8) UPO, UAE-Cat.5e-8/8 UPO OK, UAE-real.Cat.6-8/8 UPO OK
Telegärtner: AMJ 45, UMJ 45 and ISDN 2 x RJ 45 (TYP 8/8)

Transparent covers ref.-no. CD 90 NA, M 20 NA see page 569

(Spare parts)

Ref.-no.

Centre plate (snap-on fixing)

with supporting frame, screw fixing only
for universal modular jack socket ref.-no.: UMA-CAT6A

Shutter with spring for 1 socket

Thermoplastic (breakproof) high-gloss

ivory	LS 1969-1 WE
white	LS 1969-1 WE WW
light grey	LS 1969-1 WE LG
black	LS 1969-1 WE SW

matt lacquered

matt snow white	LS 1969-1 WE WWM
matt graphite black	LS 1969-1 WE SWM

metal versions

aluminium	AL 1969-1 WE
stainless steel	ES 1969-1 WE
anthracite (aluminium lacquered)	AL 1969-1 WE AN
dark (aluminium lacquered)	AL 1969-1 WE D
classic brass	ME 1969-1 WE C
antique brass	ME 1969-1 WE AT

other colours on request

for 2 sockets

Thermoplastic (breakproof) high-gloss

ivory	LS 1969-2 WE
white	LS 1969-2 WE WW
light grey	LS 1969-2 WE LG
black	LS 1969-2 WE SW

matt lacquered

matt snow white	LS 1969-2 WE WWM
matt graphite black	LS 1969-2 WE SWM

metal versions

aluminium	AL 1969-2 WE
stainless steel	ES 1969-2 WE
anthracite (aluminium lacquered)	AL 1969-2 WE AN
dark (aluminium lacquered)	AL 1969-2 WE D
classic brass	ME 1969-2 WE C
antique brass	ME 1969-2 WE AT

for modular jack sockets

RADIALL:

modular jack unshielded 6P6C, RJ 12, Cat. 4 (ref.-no. R280MOD804)
modular jack unshielded 8P8C, RJ 45, Cat. 4 (ref.-no. R280MOD805)
modular jack unshielded 8P8C, RJ 45, Cat. 5e (ref.-no. R280MOD807)

Panduit:

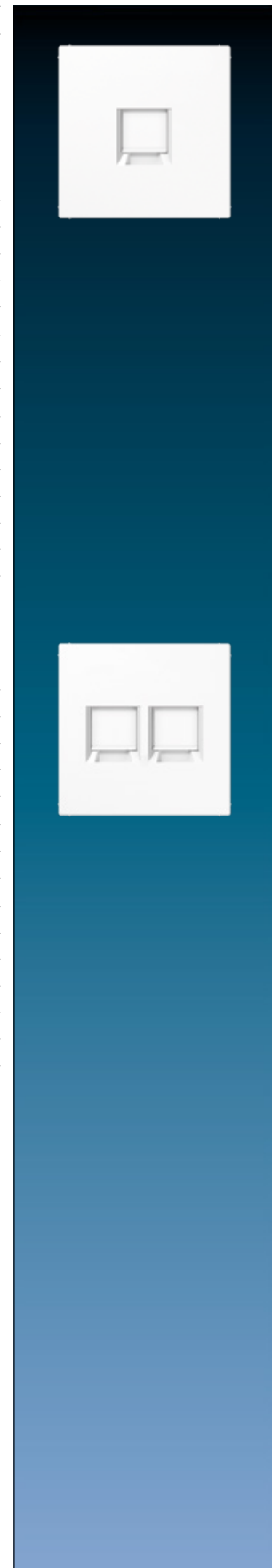
keystone jack KJ 88..
keystone jack KJ 588..

Assmann:

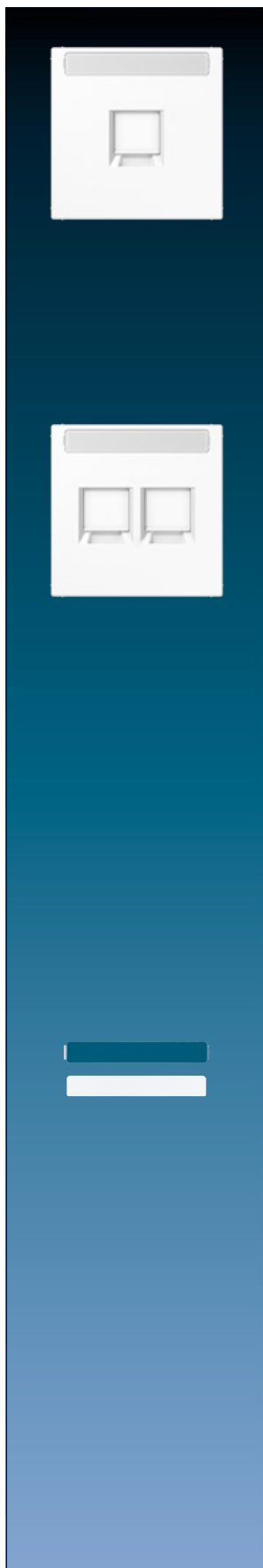
module DN-93612 Cat. 6A, shielded, Keystone
module DN-93614

SCHRACK

HSPMRJ6G1A, HSEMRJ6GBA, HSEMRJ6GBS, HSEMRJ6GWA, HSEMRJ6GWS, HSEMRJ6UWS



LS range



Ref.-no.

Centre plate (snap-on fixing) with inscription field 9 x 58 mm

with supporting frame, screw fixing only
for universal modular jack socket ref.-no.: UMA-CAT6A

Shutter with spring for 1 socket

Thermoplastic (breakproof) high-gloss

ivory	LS 1969-1 NA WE
white	LS 1969-1 NA WE WW
light grey	LS 1969-1 NA WE LG
black	LS 1969-1 NA WE SW

matt lacquered

matt snow white	LS 1969-1 NA WE WWM
matt graphite black	LS 1969-1 NA WE SWM

for 2 sockets

Thermoplastic (breakproof) high-gloss

ivory	LS 1969-2 NA WE
white	LS 1969-2 NA WE WW
light grey	LS 1969-2 NA WE LG
black	LS 1969-2 NA WE SW

matt lacquered

matt snow white	LS 1969-2 NA WE WWM
matt graphite black	LS 1969-2 NA WE SWM

for modular jack sockets

RADIALL:

modular jack unshielded 6P6C, RJ 12, Cat. 4 (ref.-no. R280MOD804)
modular jack unshielded 8P8C, RJ 45, Cat. 4 (ref.-no. R280MOD805)
modular jack unshielded 8P8C, RJ 45, Cat. 5e (ref.-no. R280MOD807)

Panduit:

keystone jack KJ 88..
keystone jack KJ 588..

Assmann:

module DN-93612 Cat. 6A, shielded, Keystone
module DN-93614

SCHRACK

HSPMRJ6G1A, HSEMRJ6GGBA, HSEMRJ6GBS, HSEMRJ6GWA, HSEMRJ6GWS, HSEMRJ6UWS

Transparent cover with paper inlay

for inscription field 9 x 58 mm
(Spare part)

paper inlay white	CD 90 NA
-------------------	----------

Ref.-no.

Centre plate (snap-on fixing) with inscription field 12 x 55 mm





with supporting frame, screw fixing only

for universal modular jack socket ref.-no.: UMA-CAT6A

Shutter with spring




for 1 socket

metal versions

aluminium	 	AL 1969-1 NA WE
stainless steel		ES 1969-1 NA WE
anthracite (aluminium lacquered)		AL 1969-1 NA WE AN
dark (aluminium lacquered)		AL 1969-1 NA WE D
classic brass		ME 1969-1 NA WE C
antique brass		ME 1969-1 NA WE AT

for 2 sockets

metal versions

aluminium	 	AL 1969-2 NA WE
stainless steel		ES 1969-2 NA WE
anthracite (aluminium lacquered)		AL 1969-2 NA WE AN
dark (aluminium lacquered)		AL 1969-2 NA WE D
classic brass		ME 1969-2 NA WE C
antique brass		ME 1969-2 NA WE AT

for modular jack sockets

RADIALL:

modular jack unshielded 6P6C, RJ 12, Cat. 4 (ref.-no. R280MOD804)

modular jack unshielded 8P8C, RJ 45, Cat. 4 (ref.-no. R280MOD805)

modular jack unshielded 8P8C, RJ 45, Cat. 5e (ref.-no. R280MOD807)

Panduit:

keystone jack KJ 88..

keystone jack KJ 588..

Assmann:

module DN-93612 Cat. 6A, shielded, Keystone

module DN-93614

SCHRACK

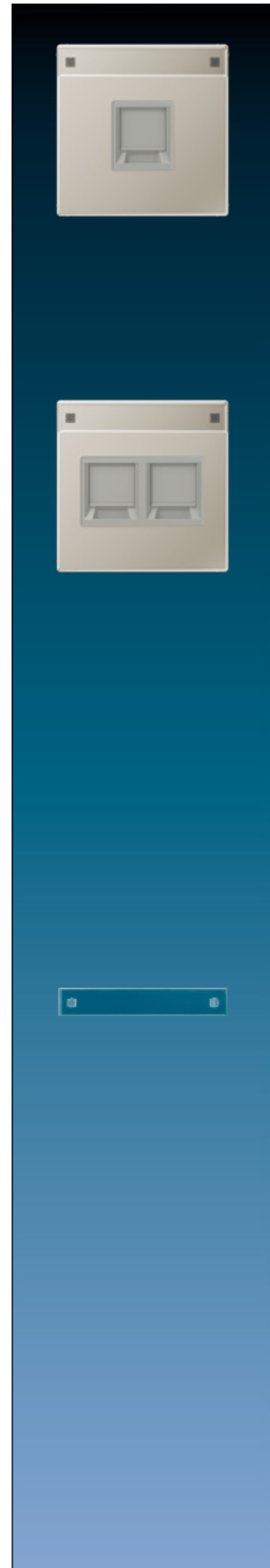
HSPMRJ6G1A, HSEMRJ6GGBA, HSEMRJ6GBS, HSEMRJ6GWA, HSEMRJ6GWS, HSEMRJ6UWS

Transparent cover

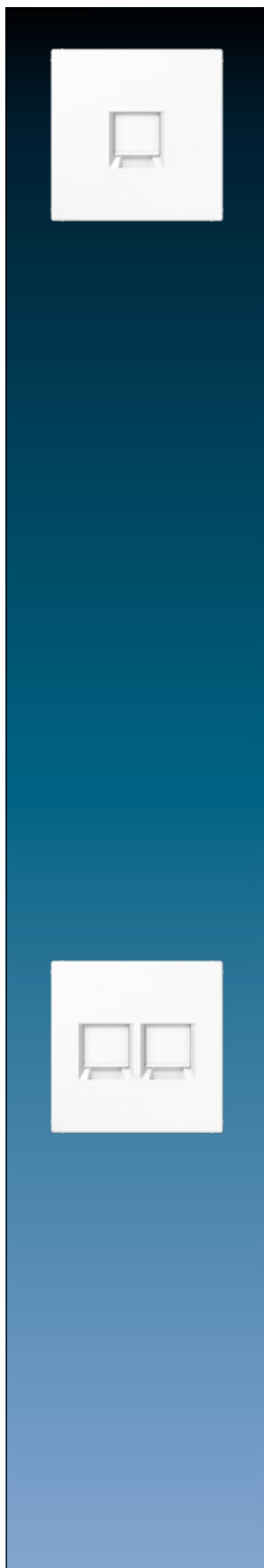
for inscription field 12 x 55 mm

(Spare part)

M 20 NA



LS range



Ref.-no.

Centre plate (snap-on fixing)

with supporting frame, screw fixing only
for modular jack sockets

TE Connectivity (Tyco Electronics / AMP NETCONNECT)

for cable Ø max. 10 mm:

EMT-jack, Cat. 5e, 180° ref.-no. 0-0188650-5

EMT-jack, Cat. 5e, 90° ref.-no. 0-0188650-6

for cable Ø max. 6.5 mm:

EMT-jack, Cat. 5e, 180° ref.-no. 0-0338038-1

EMT-jack, Cat. 5e, 90° ref.-no. 0-0338038-2

Toolless Jack, Cat. 3 unshielded: ref.-no. 0-1116603-x

Toolless Jack, Cat. 5e unshielded: ref.-no. 0-1116604-x,

Toolless Jack, Cat. 5e shielded: ref.-no. 0-1339015-1

Toolless Jack, Cat. 6 unshielded: ref.-no. 0-1116605-x,

Toolless Jack, Cat. 6 shielded: ref.-no. 0-1339016-1

MTRJ-LWL jack: ref.-no. 1278414-1

Shutter with spring

for 1 socket

Thermoplastic (breakproof) high-gloss

ivory	LS 1969-15 WE
white	LS 1969-15 WE WW
light grey	LS 1969-15 WE LG
black	LS 1969-15 WE SW

matt lacquered

matt snow white	LS 1969-15 WE WWM
matt graphite black	LS 1969-15 WE SWM

metal versions

aluminium	AL 1969-15 WE
stainless steel	ES 1969-15 WE
anthracite (aluminium lacquered)	AL 1969-15 WE AN
dark (aluminium lacquered)	AL 1969-15 WE D
classic brass	ME 1969-15 WE C
antique brass	ME 1969-15 WE AT

for 2 sockets

Thermoplastic (breakproof) high-gloss

ivory	LS 1969-25 WE
white	LS 1969-25 WE WW
light grey	LS 1969-25 WE LG
black	LS 1969-25 WE SW

matt lacquered

matt snow white	LS 1969-25 WE WWM
matt graphite black	LS 1969-25 WE SWM

metal versions

aluminium	AL 1969-25 WE
stainless steel	ES 1969-25 WE
anthracite (aluminium lacquered)	AL 1969-25 WE AN
dark (aluminium lacquered)	AL 1969-25 WE D
classic brass	ME 1969-25 WE C
antique brass	ME 1969-25 WE AT

Ref.-no.

Centre plate (snap-on fixing) with inscription field 9 x 58 mm

with supporting frame, screw fixing only
for modular jack sockets

TE Connectivity (Tyco Electronics / AMP NETCONNECT)

for cable Ø max. 10 mm:

EMT-jack, Cat. 5e, 180° ref.-no. 0-0188650-5

EMT-jack, Cat. 5e, 90° ref.-no. 0-0188650-6

for cable Ø max. 6.5 mm:

EMT-jack, Cat. 5e, 180° ref.-no. 0-0338038-1

EMT-jack, Cat. 5e, 90° ref.-no. 0-0338038-2

Toolless Jack, Cat. 3 unshielded: ref.-no. 0-1116603-x

Toolless Jack, Cat. 5e unshielded: ref.-no. 0-1116604-x,

Toolless Jack, Cat. 5e shielded: ref.-no. 0-1339015-1

Toolless Jack, Cat. 6 unshielded: ref.-no. 0-1116605-x,

Toolless Jack, Cat. 6 shielded: ref.-no. 0-1339016-1

MTRJ-LWL jack: ref.-no. 1278414-1

Shutter with spring

for 1 socket

Thermoplastic (breakproof) high-gloss

ivory	LS 1969-15 NA WE
white	LS 1969-15 NA WE WW
light grey	LS 1969-15 NA WE LG
black	LS 1969-15 NA WE SW

matt lacquered

matt snow white	LS 1969-15 NA WE WWM
matt graphite black	LS 1969-15 NA WE SWM

for 2 sockets

Thermoplastic (breakproof) high-gloss

ivory	LS 1969-25 NA WE
white	LS 1969-25 NA WE WW
light grey	LS 1969-25 NA WE LG
black	LS 1969-25 NA WE SW

matt lacquered

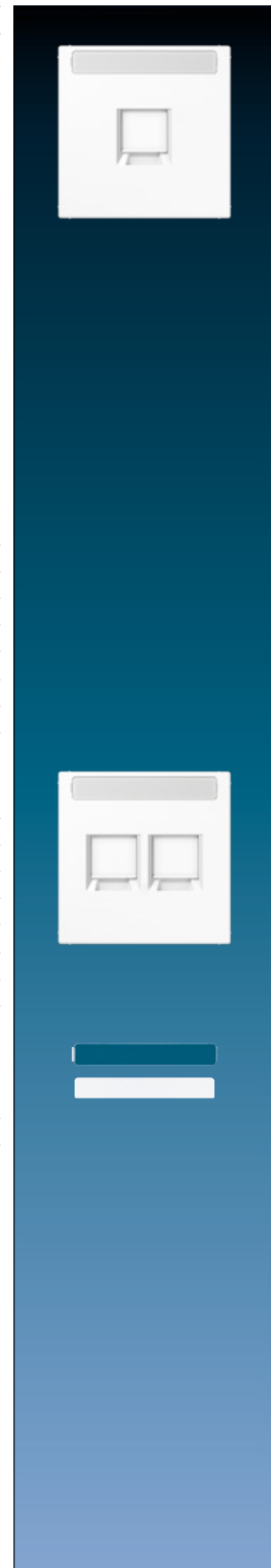
matt snow white	LS 1969-25 NA WE WWM
matt graphite black	LS 1969-25 NA WE SWM

Transparent cover with paper inlay

for inscription field 9 x 58 mm

(Spare part)

paper inlay white	CD 90 NA
-------------------	----------



LS range

Ref.-no.



Centre plate (snap-on fixing) with inscription field 12 x 55 mm

with supporting frame, screw fixing only
for modular jack sockets

TE Connectivity (Tyco Electronics / AMP NETCONNECT)

for cable Ø max. 10 mm:

EMT-jack, Cat. 5e, 180° ref.-no. 0-0188650-5

EMT-jack, Cat. 5e, 90° ref.-no. 0-0188650-6

for cable Ø max. 6.5 mm:

EMT-jack, Cat. 5e, 180° ref.-no. 0-0338038-1

EMT-jack, Cat. 5e, 90° ref.-no. 0-0338038-2

Toolless Jack, Cat. 3 unshielded: ref.-no. 0-1116603-x

Toolless Jack, Cat. 5e unshielded: ref.-no. 0-1116604-x,

Toolless Jack, Cat. 5e shielded: ref.-no. 0-1339015-1

Toolless Jack, Cat. 6 unshielded: ref.-no. 0-1116605-x,

Toolless Jack, Cat. 6 shielded: ref.-no. 0-1339016-1

MTRJ-LWL jack: ref.-no. 1278414-1

Shutter with spring

for 1 socket

metal versions

aluminium	AL 1969-15 NA WE
stainless steel	ES 1969-15 NA WE
anthracite (aluminium lacquered)	AL 1969-15 NA WE AN
dark (aluminium lacquered)	AL 1969-15 NA WE D
classic brass	ME 1969-15 NA WE C
antique brass	ME 1969-15 NA WE AT



for 2 sockets

metal versions

aluminium	AL 1969-25 NA WE
stainless steel	ES 1969-25 NA WE
anthracite (aluminium lacquered)	AL 1969-25 NA WE AN
dark (aluminium lacquered)	AL 1969-25 NA WE D
classic brass	ME 1969-25 NA WE C
antique brass	ME 1969-25 NA WE AT



Centre plate (snap-on fixing)

with supporting frame, screw fixing only
for modular jack Avaya (AT&T)

Cat. 3 RJ 45, M1 series: ref.-no. M1BH..., unshielded,

Cat. 5 RJ 45, MPS100 series: ref.-no. MPS100BH..., unshielded,

Cat. 6 RJ 45, MGS200 series: GigaSPEED, ref.-no. MGS200BH..., unshielded

Shutter with spring

for 2 sockets

Thermoplastic (breakproof) high-gloss

ivory	LS 1969-2 AT
white	LS 1969-2 AT WW

metal versions

aluminium	AL 1969-2 AT
stainless steel	ES 1969-2 AT

Ref.-no.

Centre plate (snap-on fixing) with inscription field 9 x 58 mm

with supporting frame, screw fixing only

for modular jack Avaya (AT&T)

Cat. 3 RJ 45, M1 series: ref.-no. M1BH..., unshielded,

Cat. 5 RJ 45, MPS100 series: ref.-no. MPS100BH..., unshielded,

Cat. 6 RJ 45, MGS200 series: GigaSPEED, ref.-no. MGS200BH..., unshielded

Shutter with spring

for 2 sockets

Thermoplastic (breakproof) high-gloss

ivory L LS 1969-2 NA AT

white L LS 1969-2 NA AT WW

Centre plate (snap-on fixing) with inscription field 12 x 55 mm

with supporting frame, screw fixing only

for modular jack Avaya (AT&T)

Cat. 3 RJ 45, M1 series: ref.-no. M1BH..., unshielded,

Cat. 5 RJ 45, MPS100 series: ref.-no. MPS100BH..., unshielded,

Cat. 6 RJ 45, MGS200 series: GigaSPEED, ref.-no. MGS200BH..., unshielded

Shutter with spring

for 2 sockets

metal versions

aluminium P L AL 1969-2 NA AT

stainless steel L ES 1969-2 NA AT

Centre plate (snap-on fixing) with inscription field 9 x 58 mm

with supporting frame, screw fixing only

for modular jack Radiall: R 280MOD813

for modular jack INFRA +: 7700 U, 7700 D, 7700 E

Shutter with spring

Thermoplastic (breakproof) high-gloss

ivory L LS 1969-2 NA INF

white L LS 1969-2 NA INF WW

Transparent cover

for inscription field 12 x 55 mm

(Spare part)

M 20 NA

Transparent cover with paper inlay

for inscription field 9 x 58 mm

(Spare part)

paper inlay white CD 90 NA



LS range



Ref.-no.

Centre plate with inscription field 9 x 51 mm

for mounting adapter 30° ref.-no.: 3069..

Thermoplastic (breakproof) high-gloss

ivory	LS 569-30 BF PL
white	LS 569-30 BF PL WW
light grey	LS 569-30 BF PL LG
black	LS 569-30 BF PL SW

metal colours (thermoplastic lacquered)

aluminium (lacquered)	AL 569-30 BF PL-L
stainless steel (lacquered)	ES 569-30 BF PL-L
anthracite (lacquered)	AL 569-30 BF PL AN L
classic brass (lacquered)	ME 569-30 BF PL C-L
antique brass (lacquered)	ME 569-30 BF PL AT L

Centre plate (screw fixing)

for stereo loudspeaker socket ref.-no.: SLA 2 WW, SLA 2 AN

for 2-gang supporting frame ref.-no.: UMA-MA2 in connection with universal modular jack socket type A ref.-no.: UMA-CAT6A

Thermoplastic (breakproof) high-gloss

ivory	LS 969 T
white	LS 969 T WW
light grey	LS 969 T LG
black	LS 969 T SW

matt lacquered

matt snow white	LS 969 T WWM
matt graphite black	LS 969 T SWM

metal versions

aluminium	AL 2969 T
stainless steel	ES 2969 T
anthracite (aluminium lacquered)	AL 2969 T AN
dark (aluminium lacquered)	AL 2969 T D
chrome	GCR 2969 T
classic brass	ME 2969 T C
antique brass	ME 2969 T AT

for **Rutenbeck**: UM-MA 2 Up with UM-real Cat.6a A

for **Dätwyler**: flush-mounted modular jack socket (for 2 x MS-K 1/8 Cat.6a), ref.-no.: 440 012

Centre plate (snap-on fixing)

for USB charger ref.-no.: USB 15 CA WW, USB 15 CA SW

Thermoplastic (breakproof) high-gloss

ivory	LS 1969 USB
white	LS 1969 USB WW
light grey	LS 1969 USB LG
black	LS 1969 USB SW

matt lacquered

matt snow white	LS 1969 USB WWM
matt graphite black	LS 1969 USB SWM

metal versions

aluminium	AL 1969 USB
stainless steel	ES 1969 USB
anthracite (aluminium lacquered)	AL 1969 USB AN
dark (aluminium lacquered)	AL 1969 USB D
classic brass	ME 1969 USB C
antique brass	ME 1969 USB AT

USB charger see page 72

Ref.-no.

Centre plate

with supporting frame, screw fixing only

for D-subminiature sockets ref.-no.: D SUB 9

(mounting plate ref.-no. D 9 necessary)

for D-subminiature socket 15-pole

(mounting plate ref.-no. D 15 necessary)

for D-subminiature socket 25-pole

for 1 socket

Thermoplastic (breakproof) high-gloss

ivory	LS 994-1
white	LS 994-1 WW
black	LS 994-1 SW




Potential equalisation socket

with supporting frame, screw fixing only




with 2 one-pole built-in male sockets according to DIN 42801

for wires up to 6 mm²

Duroplastic (scratch-proof) glossy

ivory	 LS 965-2
white	 LS 965-2 WW
light grey	 LS 965-2 LG
black	LS 965-2 SW

metal versions

aluminium	  AL 2965-2
stainless steel	 ES 2965-2

Right angle plug

for potential equalisation socket


screw terminal for wires with 4 or 6 mm²

65 WIS









Blank centre plate (snap-on fixing)

with supporting frame, screw fixing only



Duroplastic (scratch-proof) glossy

ivory	 LS 961 B
white	 LS 961 B WW

Thermoplastic (breakproof) high-gloss

ivory	  LS 994 B
white	  LS 994 B WW
light grey	  LS 994 B LG
black	  LS 994 B SW

matt lacquered

matt snow white	 LS 994 B WWM
matt graphite black	 LS 994 B SWM

metal versions

aluminium	   AL 2994 B
stainless steel	  ES 2994 B
anthracite (aluminium lacquered)	 AL 2994 B AN
dark (aluminium lacquered)	 AL 2994 B D
chrome	GCR 2994 B
gold-coloured	GO 2994 B
classic brass	 ME 2994 B C
antique brass	ME 2994 B AT

The cover will be installed with snap-on fixing and enables individual cuttings or drilling holes.



LS range



Ref.-no.

LED floor pilot light

with integrated brightness sensor

screwless terminals for wires up to 2.5 mm²
 installation into flush box min. 63 mm (depth)
 with white LEDs (colour temperature 4000 K)
 power consumption stand-by / ON: 0.3 / 0.5 W

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

ivory	LS 1539-O LNW
white	LS 1539-O WW LNW
light grey	LS 1539-O LG LNW
black	LS 1539-O SW LNW

matt lacquered

matt snow white	LS 1539-O WWM LNW
matt graphite black	LS 1539-O SWM LNW

metal colours (thermoplastic lacquered)

aluminium (lacquered)	AL 1539-O LNW
stainless steel (lacquered)	ES 1539-O LNW
anthracite (lacquered)	AL 1539-O AN LNW
dark (lacquered)	AL 1539-O D LNW
classic brass (lacquered)	ME 1539-O C LNW
antique brass (lacquered)	ME 1539-O AT LNW

LED floor pilot light

screwless terminals for wires up to 2.5 mm²
 installation into flush box min. 63 mm (depth)
 with white LEDs (colour temperature 4000 K)
 Power consumption (ON): 0.5 W

The floor pilot light can be switched via an external switch.

Supporting frame, claws and claw screws are integrated into the earth protection.

Thermoplastic (breakproof) high-gloss

ivory	LS 1539-OO LNW
white	LS 1539-OO WW LNW
light grey	LS 1539-OO LG LNW
black	LS 1539-OO SW LNW

matt lacquered

matt snow white	LS 1539-OO WWM LNW
matt graphite black	LS 1539-OO SWM LNW

metal colours (thermoplastic lacquered)

aluminium (lacquered)	AL 1539-OO LNW
stainless steel (lacquered)	ES 1539-OO LNW
anthracite (lacquered)	AL 1539-OO AN LNW
dark (lacquered)	AL 1539-OO D LNW
classic brass (lacquered)	ME 1539-OO C LNW
antique brass (lacquered)	ME 1539-OO AT LNW

Ref.-no.

Centre plate

with supporting frame, screw fixing only
for commanding appliance with Ø 22.5 mm
e.g. Moeller, Rafi, Schlegel, Lumitas, Kraus-Naimer

Duroplastic (scratch-proof) glossy

ivory	P	LS 964
white	P	LS 964 WW
yellow		LS 964 GE

metal colours (duroplastic lacquered)

aluminium (lacquered)	P	AL 2964
anthracite (lacquered)		AL 2964 AN

metal versions

stainless steel	L	ES 2964
-----------------	---	---------

Centre plate

for pilot lights ref.-no.: 938-10 U and 938-14 U

Duroplastic (scratch-proof) glossy

ivory	IP	LS 937
white	IP	LS 937 WW
light grey	IP	LS 937 LG
black	IP	LS 937 SW

metal versions

aluminium	IP	AL 2937
stainless steel	IP	ES 2937
anthracite (aluminium lacquered)	IP	AL 2937 AN

Sealing gasket

for covers for pilot light ref.-no.: ..537.., ..937..

IP	37 D
----	------

To obtain protection level IP 44 the sealing gasket ref.-no.: 37 D has to be placed into the pilot light centre plate and IP 44 frame has to be used.

Screw cap

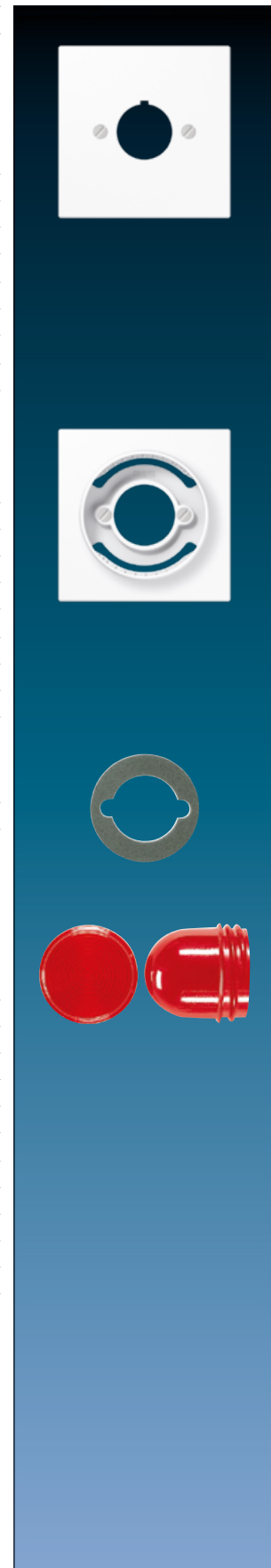
for covers for pilot light ref.-no.: ..537.., ..937..

flat, for lamps up to max. length of 35 mm

transparent	37.02
red	37.05
green	37.06
yellow	37.07
blue	37.08

high, for lamps up to max. length of 54 mm

transparent	37
red	37 R
green	37 G
yellow	37 GE
blue	37 BL



LS range



Ref.-no.

Intermediate frame

to install devices with 50 x 50 mm cover (DIN 49075)

Thermoplastic (breakproof) high-gloss

ivory	LS 961 Z
white	LS 961 Z WW
light grey	LS 961 Z LG
black	LS 961 Z SW

matt lacquered

matt snow white	LS 961 Z WWM
matt graphite black	LS 961 Z SWM

Intermediate frame

to install devices with CD 500 cover

Thermoplastic (breakproof) high-gloss

ivory	LS 981 Z
white	LS 981 Z WW
light grey	LS 981 Z LG
black	LS 981 Z SW

matt lacquered

matt snow white	LS 981 Z WWM
matt graphite black	LS 981 Z SWM

Combination with push-button sensors, LCD info display and room thermostat is **not** possible.

Intermediate frame

to install devices of other manufacturers with 55 x 55 mm cover

Not suitable for devices of the AS / A ranges.

Thermoplastic (breakproof) high-gloss

ivory	LS 961 Z5
white	LS 961 Z5 WW
black	LS 961 Z5 SW

matt lacquered

matt snow white	LS 961 Z5 WWM
matt graphite black	LS 961 Z5 SWM

metal colours (thermoplastic lacquered)

aluminium (lacquered)	AL 2961 Z5-L
stainless steel (lacquered)	ES 2961 Z5-L

Ref.-no.

Hinged lid with spring

for sockets and devices with 50 x 50 mm cover
Metal versions not suitable for ceiling installation.

Duroplastic (scratch-proof) glossy

ivory	P	LS 990 KL
white	P	LS 990 KL WW
black		LS 990 KL SW

Thermoplastic (breakproof) high-gloss

ivory	L	LS 990 BFKL
white	L	LS 990 BFKL WW
light grey	L	LS 990 BFKL LG
black	L	LS 990 BFKL SW
green		LS 990 BFKL GN
orange		LS 990 BFKL O
red		LS 990 BFKL RT

matt lacquered

matt snow white		LS 990 BFKL WWM
matt graphite black		LS 990 BFKL SWM

metal versions

aluminium	P L	AL 2990 KL
stainless steel	L	ES 2990 KL
anthracite (aluminium lacquered)		AL 2990 KL AN
dark (aluminium lacquered)		AL 2990 KL D
chrome		GCR 2990 KL
gold-coloured		GO 2990 KL
gold-plated		LS 990 KL GGO
classic brass	P	ME 2990 KL C
antique brass		ME 2990 KL AT

Hinged lid with spring

with inscription field 9 x 58 mm

for sockets and devices with 50 x 50 mm cover

Thermoplastic (breakproof) high-gloss

ivory	L	LS 990 BFNAKL
white	L	LS 990 BFNAKL WW
light grey	L	LS 990 BFNAKL LG
black	L	LS 990 BFNAKL SW
green		LS 990 BFNAKL GN
orange		LS 990 BFNAKL O
red		LS 990 BFNAKL RT

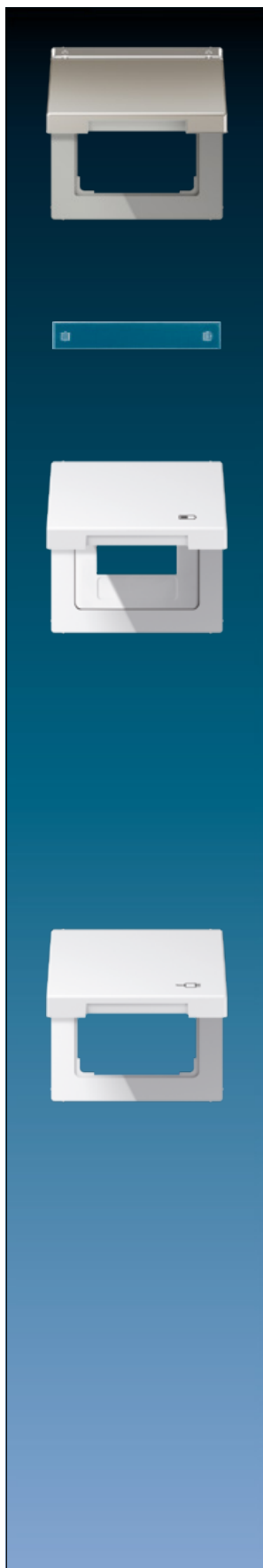
Transparent cover with paper inlay

for inscription field 9 x 58 mm
(Spare part)

paper inlay white		CD 90 NA
-------------------	--	----------



LS range



Ref.-no.

**Hinged lid with spring
with inscription field 12 x 55 mm**
for sockets and devices with 50 x 50 mm cover
Metal versions not suitable for ceiling installation.

metal versions

aluminium	AL 2990 NAKL
stainless steel	ES 2990 NAKL
anthracite (aluminium lacquered)	AL 2990 NAKL AN
dark (aluminium lacquered)	AL 2990 NAKL D

Transparent cover
for inscription field 12 x 55 mm
(Spare part)

M 20 NA

**Hinged lid with spring
with symbol "charger"**
for USB charger ref.-no.: USB 15 CA WW, USB 15 CA SW
including centre plate

Thermoplastic (breakproof) high-gloss

ivory	LS 990 BFKL USB
white	LS 990 BFKL USB WW
light grey	LS 990 BFKL USB LG
black	LS 990 BFKL USB SW

metal versions

aluminium	AL 2990 KL USB
stainless steel	ES 2990 KL USB
anthracite (aluminium lacquered)	AL 2990 KL USB AN
dark (aluminium lacquered)	AL 2990 KL USB D
classic brass	ME 2990 KL USB C
antique brass	ME 2990 KL USB AT

**Hinged lid with spring
with symbol "plug"**
for sockets with 50 x 50 mm cover

Thermoplastic (breakproof) high-gloss

ivory	LS 990 BFKL SOC
white	LS 990 BFKL SOC WW
light grey	LS 990 BFKL SOC LG
black	LS 990 BFKL SOC SW

metal versions

aluminium	AL 2990 KL SOC
stainless steel	ES 2990 KL SOC
anthracite (aluminium lacquered)	AL 2990 KL SOC AN
dark (aluminium lacquered)	AL 2990 KL SOC D
classic brass	ME 2990 KL SOC C
antique brass	ME 2990 KL SOC AT

Ref.-no.

**Hinged lid with spring
with symbol "LAN"**

for 2-gang modular jack sockets
IAE/UAE sockets ref.-no.: UAE 2 x 8 UPO, UAE 8-8 UPO
for sockets Cat. 6 ref.-no.: UAE 8-8 UPOK6
(2 x 8-pol.)
including centre plate

Thermoplastic (breakproof) high-gloss


ivory	LS 990 BFKL LAN
white	LS 990 BFKL LAN WW
light grey	LS 990 BFKL LAN LG
black	LS 990 BFKL LAN SW

metal versions

aluminium	AL 2990 KL LAN
stainless steel	ES 2990 KL LAN
anthracite (aluminium lacquered)	AL 2990 KL LAN AN
dark (aluminium lacquered)	AL 2990 KL LAN D
classic brass	ME 2990 KL LAN C
antique brass	ME 2990 KL LAN AT

Sealing gasket

to ensure protection level IP 44
for all flush-mounted switch/push-button inserts of the 500 range, SCHUKO® sockets with hinged lid, rotary switches and timer switch inserts
for all devices, covers and frames with blue "IP 44 marking"
in some cases with additional gaskets acc. to product description

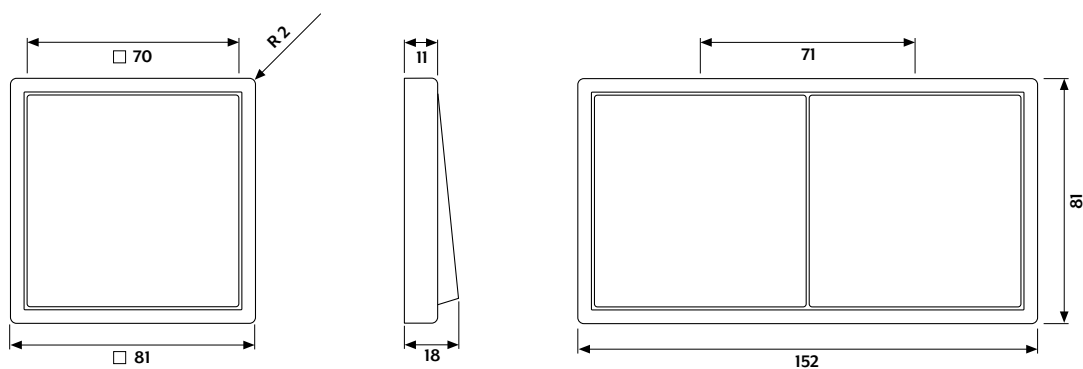
 **551 WU**



LS 990



STAINLESS STEEL



Frame edge radius

Duroplastic / stainless steel /
gold / chrome R 2
aluminium / anthracite /
dark / brass R 1.5






Frame size

1-gang	81 mm x 81 mm
2-gang	81 mm x 152 mm
3-gang	81 mm x 223 mm
4-gang	81 mm x 294 mm
5-gang	81 mm x 365 mm






Ref.-no.

**Frame
for horizontal and vertical installation
for LS range**






**Duroplastic (scratch-proof) glossy
ivory**

1-gang	81 x 81 mm		LS 981 W
2-gang	81 x 152 mm		LS 982 W
3-gang	81 x 223 mm		LS 983 W
4-gang	81 x 294 mm		LS 984 W
5-gang	81 x 365 mm		LS 985 W






white

1-gang	81 x 81 mm		LS 981 WW
2-gang	81 x 152 mm		LS 982 WW
3-gang	81 x 223 mm		LS 983 WW
4-gang	81 x 294 mm		LS 984 WW
5-gang	81 x 365 mm		LS 985 WW






light grey

1-gang	81 x 81 mm		LS 981 LG
2-gang	81 x 152 mm		LS 982 LG
3-gang	81 x 223 mm		LS 983 LG
4-gang	81 x 294 mm		LS 984 LG
5-gang	81 x 365 mm		LS 985 LG






black

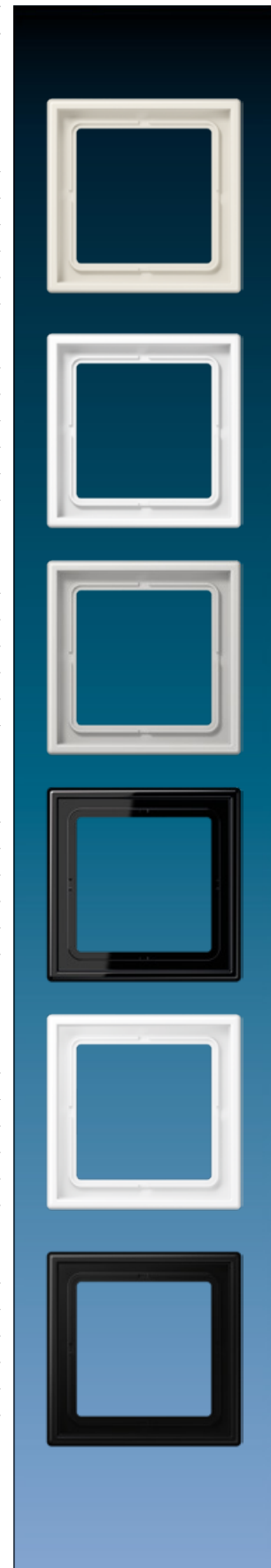
1-gang	81 x 81 mm		LS 981 SW
2-gang	81 x 152 mm		LS 982 SW
3-gang	81 x 223 mm		LS 983 SW
4-gang	81 x 294 mm		LS 984 SW
5-gang	81 x 365 mm		LS 985 SW

**matt lacquered
matt snow white**

1-gang	81 x 81 mm		LS 981 WWM
2-gang	81 x 152 mm		LS 982 WWM
3-gang	81 x 223 mm		LS 983 WWM
4-gang	81 x 294 mm		LS 984 WWM
5-gang	81 x 365 mm		LS 985 WWM

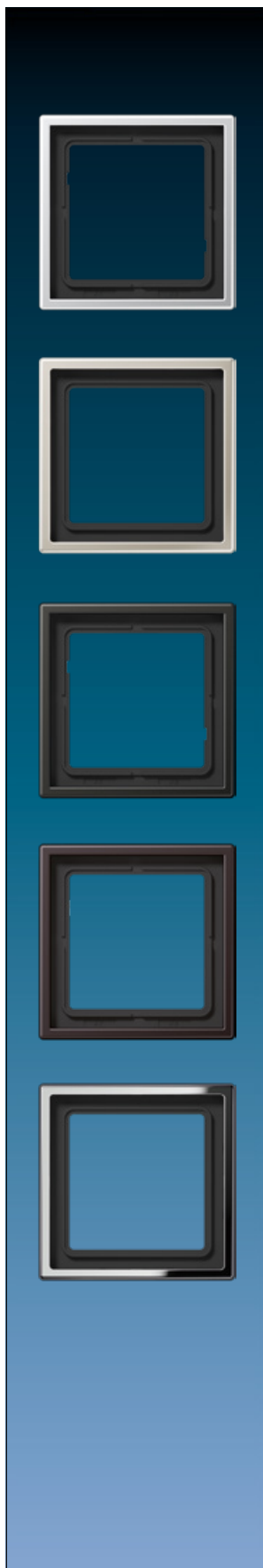
matt graphite black

1-gang	81 x 81 mm		LS 981 SWM
2-gang	81 x 152 mm		LS 982 SWM
3-gang	81 x 223 mm		LS 983 SWM
4-gang	81 x 294 mm		LS 984 SWM
5-gang	81 x 365 mm		LS 985 SWM



LS range

LS 990



Ref.-no.

Frame for horizontal and vertical installation for LS range

Metal versions aluminium

1-gang	81 x 81 mm	IP	AL 2981
2-gang	81 x 152 mm	IP	AL 2982
3-gang	81 x 223 mm	IP	AL 2983
4-gang	81 x 294 mm	IP	AL 2984
5-gang	81 x 365 mm	IP	AL 2985

stainless steel

1-gang	81 x 81 mm	IP	ES 2981
2-gang	81 x 152 mm	IP	ES 2982
3-gang	81 x 223 mm	IP	ES 2983
4-gang	81 x 294 mm	IP	ES 2984
5-gang	81 x 365 mm	IP	ES 2985

anthracite (aluminium lacquered)

1-gang	81 x 81 mm	IP	AL 2981 AN
2-gang	81 x 152 mm	IP	AL 2982 AN
3-gang	81 x 223 mm	IP	AL 2983 AN
4-gang	81 x 294 mm	IP	AL 2984 AN
5-gang	81 x 365 mm	IP	AL 2985 AN

dark (aluminium lacquered)

1-gang	81 x 81 mm	IP	AL 2981 D
2-gang	81 x 152 mm	IP	AL 2982 D
3-gang	81 x 223 mm	IP	AL 2983 D
4-gang	81 x 294 mm	IP	AL 2984 D
5-gang	81 x 365 mm	IP	AL 2985 D

chrome

1-gang	81 x 81 mm		GCR 2981
2-gang	81 x 152 mm		GCR 2982
3-gang	81 x 223 mm		GCR 2983
4-gang	81 x 294 mm		GCR 2984
5-gang	81 x 365 mm		GCR 2985

Ref.-no.

**Frame
for horizontal and vertical installation
for LS range**

gold-coloured

1-gang	81 x 81 mm	GO 2981
2-gang	81 x 152 mm	GO 2982
3-gang	81 x 223 mm	GO 2983
4-gang	81 x 294 mm	GO 2984
5-gang	81 x 365 mm	GO 2985

gold-plated

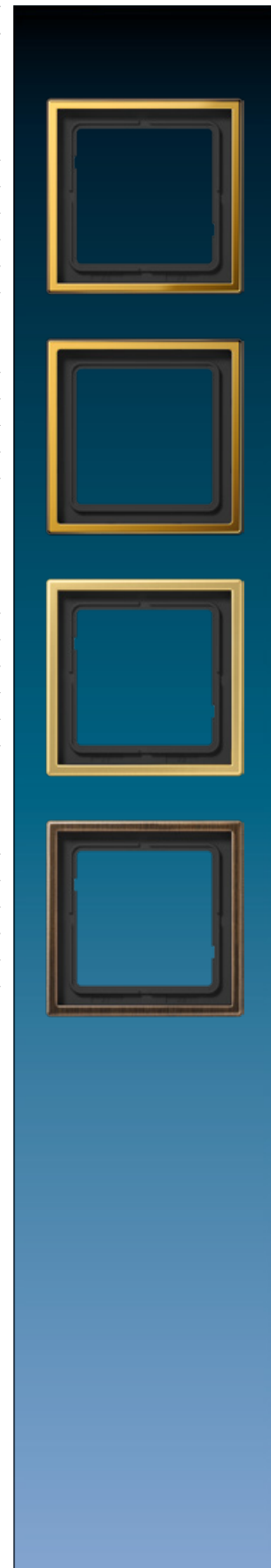
1-gang	81 x 81 mm	LS 981 GGO
2-gang	81 x 152 mm	LS 982 GGO
3-gang	81 x 223 mm	LS 983 GGO
4-gang	81 x 294 mm	LS 984 GGO

classic brass

1-gang	81 x 81 mm	ME 2981 C
2-gang	81 x 152 mm	ME 2982 C
3-gang	81 x 223 mm	ME 2983 C
4-gang	81 x 294 mm	ME 2984 C
5-gang	81 x 365 mm	ME 2985 C

antique brass

1-gang	81 x 81 mm	ME 2981 AT
2-gang	81 x 152 mm	ME 2982 AT
3-gang	81 x 223 mm	ME 2983 AT
4-gang	81 x 294 mm	ME 2984 AT
5-gang	81 x 365 mm	ME 2985 AT



LS range

LS CUBE



Ref.-no.

Surface cap

with integrated frame and non-flammable ground plate
for inserts with covers of the LS range (except key switches ref.-no. ...15,
3-level-switch and socket for Switzerland type 13)

1-gang, 81 x 81 x 47 mm

Duroplastic (scratch-proof) glossy

ivory	LS 581 A W
white	LS 581 A WW
black	LS 581 A SW

matt lacquered

matt snow white	LS 581 A WWM
matt graphite black	LS 581 A SWM

metal colours (duroplastic lacquered)

aluminium (lacquered)	AL 2581 A-L
stainless steel (lacquered)	ES 2581 A-L

2-gang, 152 x 81 x 47 mm

Duroplastic (scratch-proof) glossy

ivory	LS 582 A W
white	LS 582 A WW
black	LS 582 A SW

matt lacquered

matt snow white	LS 582 A WWM
matt graphite black	LS 582 A SWM

metal colours (duroplastic lacquered)

aluminium (lacquered)	AL 2582 A-L
stainless steel (lacquered)	ES 2582 A-L

LS CUBE



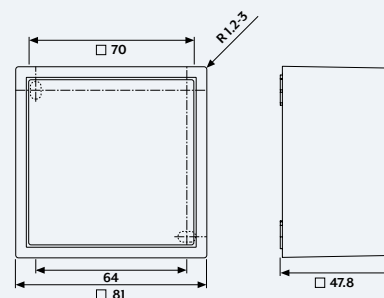
MATT SNOW WHITE

Frame edge radius

R 1.2-3

Frame dimensions

1-gang	81 x 81 x 47 mm
2-gang	152 x 81 x 47 mm
3-gang	223 x 81 x 47 mm



Ref.-no.

Surface cap

with integrated frame and non-flammable ground plate
for inserts with covers of the LS range (except key switches ref.-no. ..15,
3-level-switch and socket for Switzerland type 13)

3-gang, 223 x 81 x 47 mm

Duroplastic (scratch-proof) glossy

ivory	LS 583 A W
white	LS 583 A WW
black	LS 583 A SW

matt lacquered

matt snow white	LS 583 A WWM
matt graphite black	LS 583 A SWM

metal colours (duroplastic lacquered)

aluminium (lacquered)	AL 2583 A-L
stainless steel (lacquered)	ES 2583 A-L

Mounting box for surface caps

(Spare part)

1-gang	581 A
2-gang	582 A
3-gang	583 A

Strain relief

for surface caps

for cables 3 x 1.5 mm² up to 5 x 2.5 mm² (Ø 7 up to 13 mm)

58 A ZUG

Inlets for cables, pipes and trunkings in surface caps

for cable and mini trunking

ivory	11
white	11 WW
stone grey	11 SG
black	11 SW

for trunking 15 x 15 mm

ivory	12
white	12 WW
stone grey	12 SG
black	12 SW

for pipes with outside Ø 16 mm

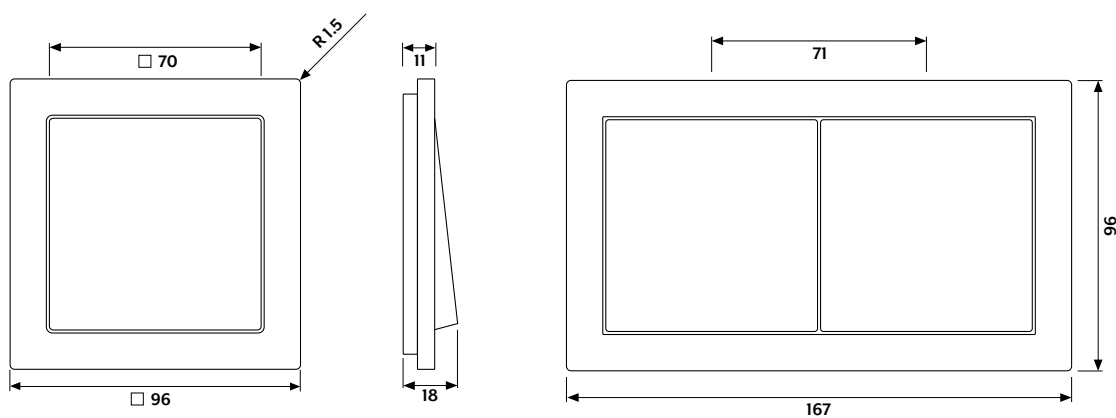
ivory	13
white	13 WW
stone grey	13 SG
black	13 SW



LS DESIGN



DARK



Frame edge radius

R 1.5

Frame dimensions

1-gang	96 mm x 96 mm
2-gang	96 mm x 167 mm
3-gang	96 mm x 238 mm
4-gang	96 mm x 309 mm
5-gang	96 mm x 380 mm

Ref.-no.

**Frame
for horizontal and vertical installation
for LS range**

**Duroplastic (scratch-proof) glossy
ivory**

1-gang	96 x 96 mm	P	LSD 981 W
2-gang	96 x 167 mm	P	LSD 982 W
3-gang	96 x 238 mm	P	LSD 983 W
4-gang	96 x 309 mm	P	LSD 984 W
5-gang	96 x 380 mm	P	LSD 985 W

**Duroplastic (scratch-proof) glossy
white**

1-gang	96 x 96 mm	P	LSD 981 WW
2-gang	96 x 167 mm	P	LSD 982 WW
3-gang	96 x 238 mm	P	LSD 983 WW
4-gang	96 x 309 mm	P	LSD 984 WW
5-gang	96 x 380 mm	P	LSD 985 WW

**Thermoplastic (breakproof) high-gloss
white**

1-gang	96 x 96 mm	L	LSD 981 BF WW
2-gang	96 x 167 mm	L	LSD 982 BF WW
3-gang	96 x 238 mm		LSD 983 BF WW

**Duroplastic (scratch-proof) glossy
light grey**

1-gang	96 x 96 mm	P	LSD 981 LG
2-gang	96 x 167 mm	P	LSD 982 LG
3-gang	96 x 238 mm	P	LSD 983 LG
4-gang	96 x 309 mm	P	LSD 984 LG
5-gang	96 x 380 mm	P	LSD 985 LG

**Duroplastic (scratch-proof) glossy
black**

1-gang	96 x 96 mm		LSD 981 SW
2-gang	96 x 167 mm		LSD 982 SW
3-gang	96 x 238 mm		LSD 983 SW
4-gang	96 x 309 mm		LSD 984 SW
5-gang	96 x 380 mm		LSD 985 SW

Metal versions

aluminium

1-gang	96 x 96 mm	L	ALD 2981
2-gang	96 x 167 mm	L	ALD 2982
3-gang	96 x 238 mm		ALD 2983

aluminium (duroplastic lacquered)

4-gang	96 x 309 mm	P	ALD 2984-L
5-gang	96 x 380 mm	P	ALD 2985-L



LS range

LS DESIGN



Ref.-no.

**Frame
for horizontal and vertical installation
for LS range
Metal versions**

stainless steel

1-gang	96 x 96 mm	ESD 2981
2-gang	96 x 167 mm	ESD 2982
3-gang	96 x 238 mm	ESD 2983

stainless steel (duroplastic lacquered)

4-gang	96 x 309 mm	ESD 2984-L
5-gang	96 x 380 mm	ESD 2985-L

anthracite (aluminium lacquered)

1-gang	96 x 96 mm	ALD 2981 AN
2-gang	96 x 167 mm	ALD 2982 AN
3-gang	96 x 238 mm	ALD 2983 AN

dark (aluminium lacquered)

1-gang	96 x 96 mm	ALD 2981 D
2-gang	96 x 167 mm	ALD 2982 D
3-gang	96 x 238 mm	ALD 2983 D

chrome

1-gang	96 x 96 mm	GCRD 2981
2-gang	96 x 167 mm	GCRD 2982
3-gang	96 x 238 mm	GCRD 2983

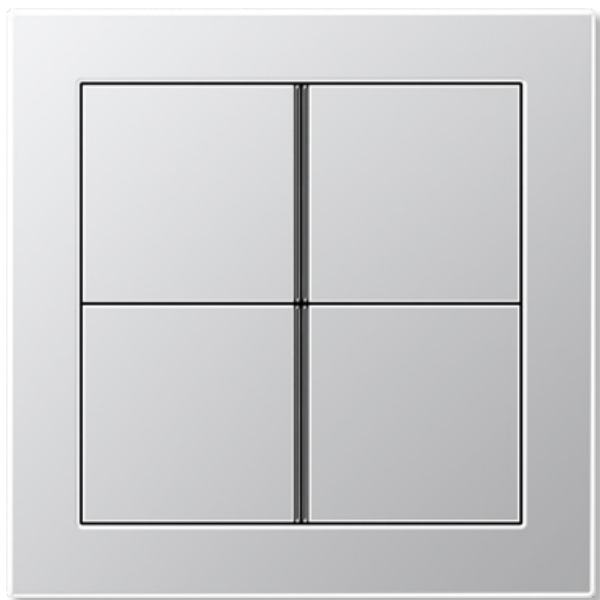
classic brass

1-gang	96 x 96 mm	MED 2981 C
2-gang	96 x 167 mm	MED 2982 C
3-gang	96 x 238 mm	MED 2983 C

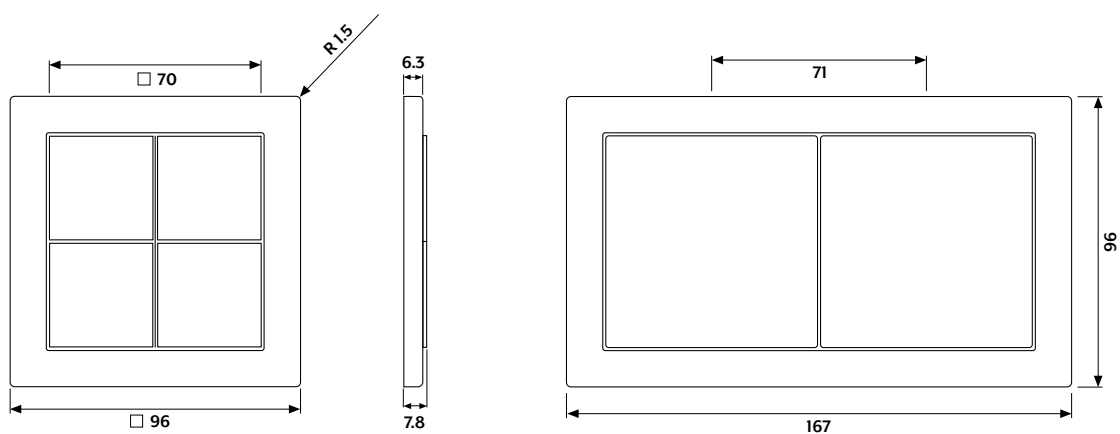
antique brass

1-gang	96 x 96 mm	MED 2981 AT
2-gang	96 x 167 mm	MED 2982 AT
3-gang	96 x 238 mm	MED 2983 AT

FLAT DESIGN



ALUMINIUM



Frame edge radius

R 1.5

Frame dimensions

1-gang 96 mm x 96 mm
2-gang 96 mm x 167 mm
3-gang 96 mm x 238 mm

LS range

FLAT DESIGN



Ref.-no.

Frame



for horizontal and vertical installation

suitable for:



- Modules F 40 (ref.-no.: 4.. TSM, 4.. TSEM, 4093 KRM TS D)
- Modules F 50 (ref.-no.: LS 5.. TSM, LS 5.. TSEM)
- Sensor module JUNG bus (ref.-no.: SM 1608)
- Smart Radio (ref.-no.: DAB ..)
- Loudspeaker module (ref.-no.: LSM .. 4 ..)
- Modules for door communication (ref.-no.: SI AI .., SI VI .., SI AM .., SI VM .., SI TM ..)

Thermoplastic (breakproof) high-gloss



ivory

1-gang	96 x 96 x 6.3 mm	 FD 981 W
2-gang	96 x 167 x 6.3 mm	 FD 982 W
3-gang	96 x 238 x 6.3 mm	FD 983 W



white

1-gang	96 x 96 x 6.3 mm	 FD 981 WW
2-gang	96 x 167 x 6.3 mm	 FD 982 WW
3-gang	96 x 238 x 6.3 mm	FD 983 WW

light grey






1-gang	96 x 96 x 6.3 mm	 FD 981 LG
2-gang	96 x 167 x 6.3 mm	 FD 982 LG
3-gang	96 x 238 x 6.3 mm	FD 983 LG

black

1-gang	96 x 96 x 6.3 mm	 FD 981 SW
2-gang	96 x 167 x 6.3 mm	 FD 982 SW
3-gang	96 x 238 x 6.3 mm	FD 983 SW

metal versions


aluminium

1-gang	96 x 96 x 6.3 mm	  FDAL 2981
2-gang	96 x 167 x 6.3 mm	  FDAL 2982
3-gang	96 x 238 x 6.3 mm	 FDAL 2983

Ref.-no.

**Frame
for horizontal and vertical installation
metal versions**

stainless steel

1-gang	96 x 96 x 6.3 mm	 FDDES 2981
2-gang	96 x 167 x 6.3 mm	 FDDES 2982
3-gang	96 x 238 x 6.3 mm	FDDES 2983




anthracite (aluminium lacquered)

1-gang	96 x 96 x 6.3 mm	FDAL 2981 AN
2-gang	96 x 167 x 6.3 mm	FDAL 2982 AN
3-gang	96 x 238 x 6.3 mm	FDAL 2983 AN

dark (aluminium lacquered)

1-gang	96 x 96 x 6.3 mm	FDAL 2981 D
2-gang	96 x 167 x 6.3 mm	FDAL 2982 D
3-gang	96 x 238 x 6.3 mm	FDAL 2983 D

classic brass

1-gang	96 x 96 x 6.3 mm	 FDME 2981 C
2-gang	96 x 167 x 6.3 mm	 FDME 2982 C
3-gang	96 x 238 x 6.3 mm	 FDME 2983 C

antique brass

1-gang	96 x 96 x 6.3 mm	FDME 2981 AT
2-gang	96 x 167 x 6.3 mm	FDME 2982 AT
3-gang	96 x 238 x 6.3 mm	FDME 2983 AT

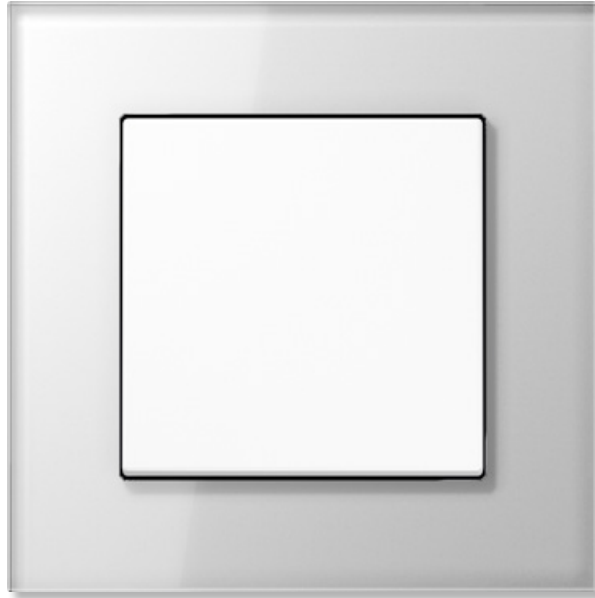
Intermediate frame

for the installation of SCHUKO® sockets and other devices of the LS range (except switch/push-button inserts, centre plates .. 1561/1565.07 .., radio transmitter modules, devices with LED floor pilot light) into the frames FD.. 981.. – FD.. 983..

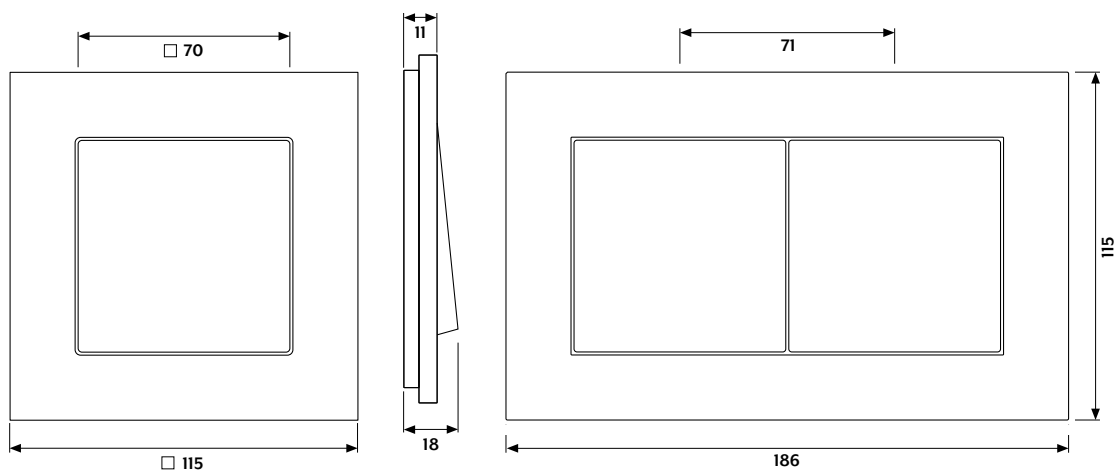
FD 981 Z



LS PLUS



WHITE WITH GLASS FRAME



Frame edge radius








Fase 0.5 x 45°

Frame dimensions



1-gang	115 mm x 115 mm
2-gang	115 mm x 186 mm
3-gang	115 mm x 257 mm
4-gang	115 mm x 328 mm
5-gang	115 mm x 399 mm

Ref.-no.

**Frame
for horizontal and vertical installation
for LS range
aluminium**

1-gang	115 x 115 mm	  LSP 981 AL
2-gang	115 x 186 mm	  LSP 982 AL
3-gang	115 x 257 mm	 LSP 983 AL
4-gang	115 x 328 mm	 LSP 984 AL
5-gang	115 x 399 mm	 LSP 985 AL

stainless steel

1-gang	115 x 115 mm	 LSP 981 ES
2-gang	115 x 186 mm	 LSP 982 ES
3-gang	115 x 257 mm	LSP 983 ES
4-gang	115 x 328 mm	LSP 984 ES
5-gang	115 x 399 mm	LSP 985 ES

chrome

1-gang	115 x 115 mm	LSP 981 GCR
2-gang	115 x 186 mm	LSP 982 GCR
3-gang	115 x 257 mm	LSP 983 GCR
4-gang	115 x 328 mm	LSP 984 GCR
5-gang	115 x 399 mm	LSP 985 GCR

**Glass frame
for horizontal and vertical installation
for LS range**

soft white

1-gang	115 x 115 mm	LSP 981 GLAS
2-gang	115 x 186 mm	LSP 982 GLAS
3-gang	115 x 257 mm	LSP 983 GLAS
4-gang	115 x 328 mm	LSP 984 GLAS
5-gang	115 x 399 mm	LSP 985 GLAS

white

1-gang	115 x 115 mm	LSP 981 GL WW
2-gang	115 x 186 mm	LSP 982 GL WW
3-gang	115 x 257 mm	LSP 983 GL WW
4-gang	115 x 328 mm	LSP 984 GL WW
5-gang	115 x 399 mm	LSP 985 GL WW

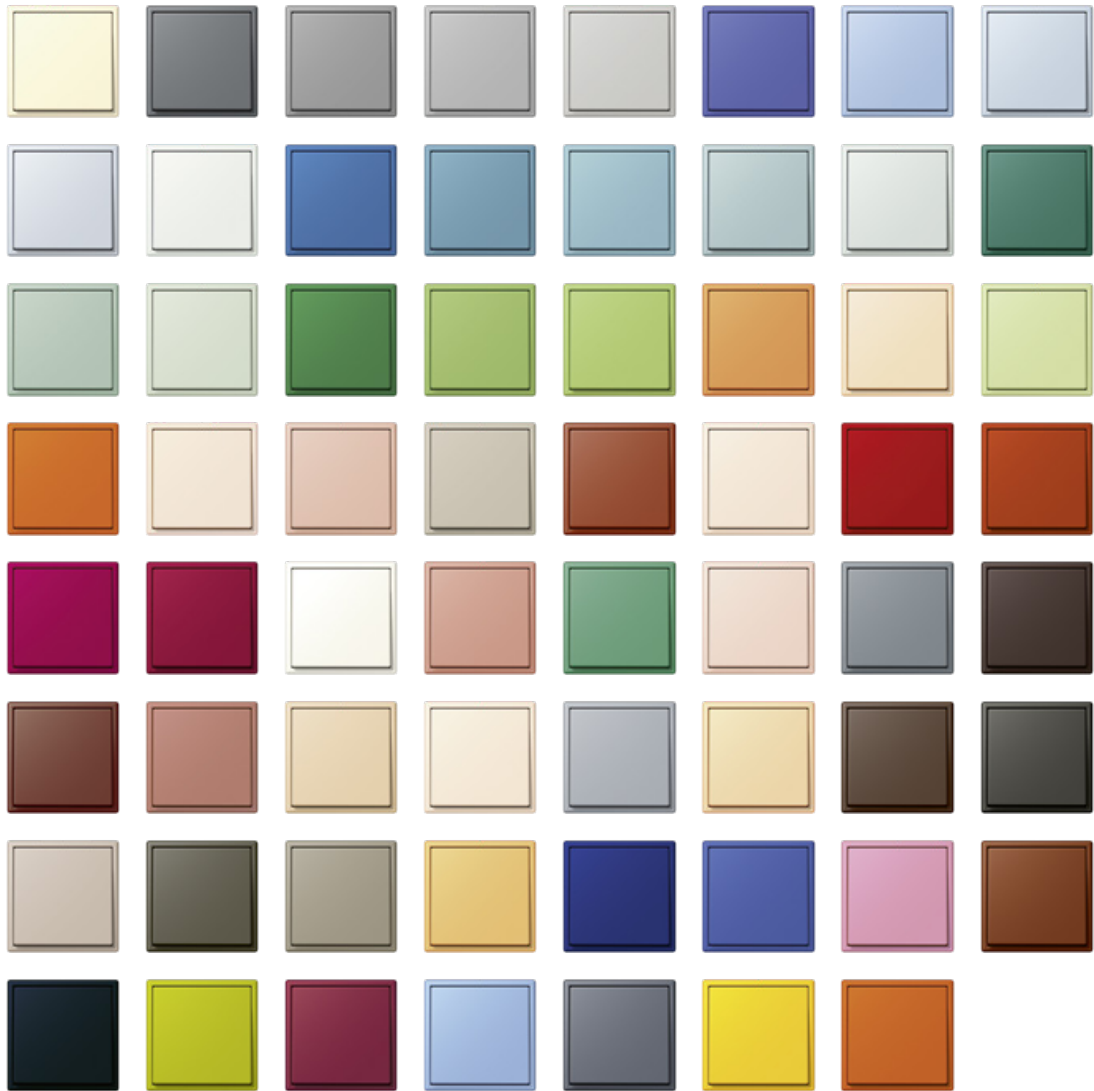
black

1-gang	115 x 115 mm	LSP 981 GL SW
2-gang	115 x 186 mm	LSP 982 GL SW
3-gang	115 x 257 mm	LSP 983 GL SW
4-gang	115 x 328 mm	LSP 984 GL SW
5-gang	115 x 399 mm	LSP 985 GL SW

**Metal adapter
for rectangular Italian wall boxes**

1980 APM





Each of the 63 Les Couleurs® Le Corbusier colours can be combined with any other in the system. To form the particular colour depth, the components are hand-painted using a special process. This produces the matt surface.



Detailed information on Le Corbusier's unique colour system, design data sheets for the LS 990 in Les Couleurs® Le Corbusier and more can be found on our website jung.de/lc

Les Couleurs® Le Corbusier

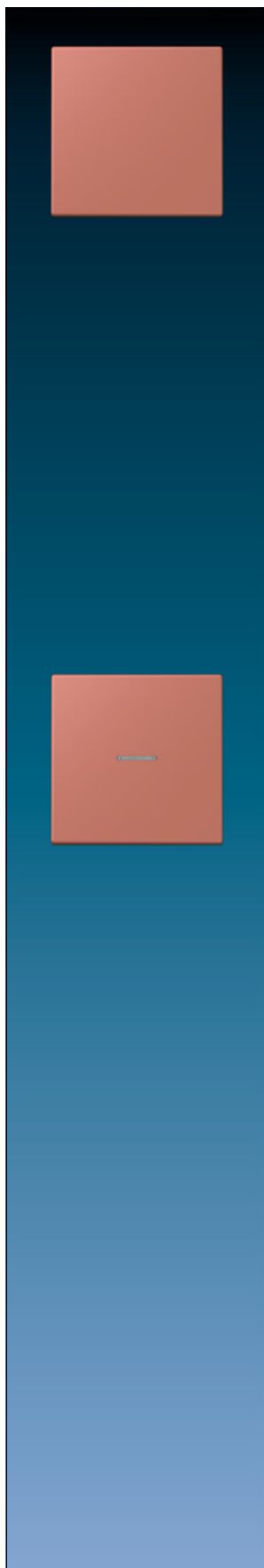


4320M LE RUBIS

The unique colour system “Polychromie Architecturale” from Le Corbusier still captivates today due to its remarkable combination capability and impressive colour depth. Exclusively throughout the world, JUNG is providing its classic LS 990 design in the 63 Les Couleurs® Le Corbusier colours.

LS range

Le Corbusier



Ref.-no.

1-gang rocker

for switch insert ref.-no.: 501 U, 502 U, 503 U, 506 U, 507 U, 501-20 U, 506-20 U, 507-20 U

for push switch insert ref.-no.: 502 TU, 506 TU, 507 TU

for push-button insert ref.-no.: 531 U, 532 U, 533 U, 533-2 U

for multi switch insert ref.-no.: 531-41 U

Duroplastic lacquered

bleu céruléen 31	LC 990 32030
vert foncé	LC 990 32050
rouge vermillon 31	LC 990 32090
terre sienne brique	LC 990 32121
ombre naturelle 31	LC 990 32140
ombre naturelle claire	LC 990 32142
rouge vermillon 59	LC 990 4320A
terre sienne brûlée 59	LC 990 4320D
vert olive vif	LC 990 4320F
terre d'ombre brûlée 59	LC 990 4320J
bleu outremer 59	LC 990 4320K
le rubis	LC 990 4320M
ombre naturelle 59	LC 990 4320R
orange vif	LC 990 4320S
bleu outremer foncé	LC 990 4320T

Delivery time: please inquire for exact date

1-gang rocker with lens

for switch insert with indicator light

ref.-no.: 502 KOU, 503 KOU, 506 KOU, 501-20 KOU, 502-20 KOU, 506-20 KOU

for push switch insert with indicator light ref.-no.: 502 KOTU, 506 KOTU

for push-button insert ref.-no.: 531 U, 533 U, 533-2 U, 534 U

Duroplastic lacquered

bleu céruléen 31	LC 990 KO5 32030
vert foncé	LC 990 KO5 32050
rouge vermillon 31	LC 990 KO5 32090
terre sienne brique	LC 990 KO5 32121
ombre naturelle 31	LC 990 KO5 32140
ombre naturelle claire	LC 990 KO5 32142
rouge vermillon 59	LC 990 KO5 4320A
terre sienne brûlée 59	LC 990 KO5 4320D
vert olive vif	LC 990 KO5 4320F
terre d'ombre brûlée 59	LC 990 KO5 4320J
bleu outremer 59	LC 990 KO5 4320K
le rubis	LC 990 KO5 4320M
ombre naturelle 59	LC 990 KO5 4320R
orange vif	LC 990 KO5 4320S
bleu outremer foncé	LC 990 KO5 4320T

Delivery time: please inquire for exact date

Ref.-no.

2-gang rocker

for switch insert ref.-no.: 505 U, 509 U

for push switch insert ref.-no.: 505 TU, 509 TU

for push-button insert ref.-no.: 535 U, 539 U

for multi switch insert ref.-no.: 532-4 U

Duroplastic lacquered

bleu céruléen 31	LC 995 32030
vert foncé	LC 995 32050
rouge vermillon 31	LC 995 32090
terre sienne brique	LC 995 32121
ombre naturelle 31	LC 995 32140
ombre naturelle claire	LC 995 32142
rouge vermillon 59	LC 995 4320A
terre sienne brûlée 59	LC 995 4320D
vert olive vif	LC 995 4320F
terre d'ombre brûlée 59	LC 995 4320J
bleu outremer 59	LC 995 4320K
le rubis	LC 995 4320M
ombre naturelle 59	LC 995 4320R
orange vif	LC 995 4320S
bleu outremer foncé	LC 995 4320T

Delivery time: please inquire for exact date

SCHUKO® socket 16 A / 250 V ~

with enhanced contact protection (shutter)

screwless terminals for wires up to 2.5 mm²

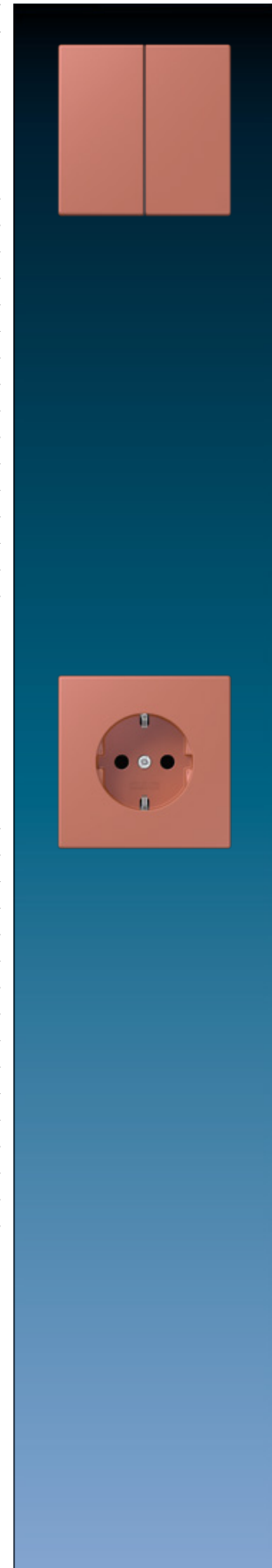
without claws: ref.-no. with additional "N", e.g.: ..1520 N..

Supporting frame, claws and claw screws are integrated into the earth protection.

Duroplastic lacquered

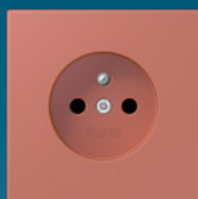
bleu céruléen 31	LC 1520 KI 32030
vert foncé	LC 1520 KI 32050
rouge vermillon 31	LC 1520 KI 32090
terre sienne brique	LC 1520 KI 32121
ombre naturelle 31	LC 1520 KI 32140
ombre naturelle claire	LC 1520 KI 32142
rouge vermillon 59	LC 1520 KI 4320A
terre sienne brûlée 59	LC 1520 KI 4320D
vert olive vif	LC 1520 KI 4320F
terre d'ombre brûlée 59	LC 1520 KI 4320J
bleu outremer 59	LC 1520 KI 4320K
le rubis	LC 1520 KI 4320M
ombre naturelle 59	LC 1520 KI 4320R
orange vif	LC 1520 KI 4320S
bleu outremer foncé	LC 1520 KI 4320T

Delivery time: please inquire for exact date



LS range

Le Corbusier



Ref.-no.

SCHUKO® socket 16 A / 250 V ~

with hinged lid (with spring)

with enhanced contact protection (shutter)

screwless terminals for wires up to 2.5 mm²

without claws: ref.-no. with additional "N", e.g.: ..1520 N..

Supporting frame, claws and claw screws are integrated into the earth protection.

Duroplastic lacquered

bleu céruléen 31	LC 1520 KIKL 32030
vert foncé	LC 1520 KIKL 32050
rouge vermillon 31	LC 1520 KIKL 32090
terre sienne brique	LC 1520 KIKL 32121
ombre naturelle 31	LC 1520 KIKL 32140
ombre naturelle claire	LC 1520 KIKL 32142
rouge vermillon 59	LC 1520 KIKL 4320A
terre sienne brûlée 59	LC 1520 KIKL 4320D
vert olive vif	LC 1520 KIKL 4320F
terre d'ombre brûlée 59	LC 1520 KIKL 4320J
bleu outremer 59	LC 1520 KIKL 4320K
le rubis	LC 1520 KIKL 4320M
ombre naturelle 59	LC 1520 KIKL 4320R
orange vif	LC 1520 KIKL 4320S
bleu outremer foncé	LC 1520 KIKL 4320T

Delivery time: please inquire for exact date

Socket, French/Belgian system

2-pole + male earth pin, 16 A / 250 V ~

with enhanced contact protection (shutter)

screwless terminals for wires up to 2.5 mm²

Supporting frame is integrated into the earth protection.

Duroplastic lacquered

bleu céruléen 31	LC 1520 NFKI 32030
vert foncé	LC 1520 NFKI 32050
rouge vermillon 31	LC 1520 NFKI 32090
terre sienne brique	LC 1520 NFKI 32121
ombre naturelle 31	LC 1520 NFKI 32140
ombre naturelle claire	LC 1520 NFKI 32142
rouge vermillon 59	LC 1520 NFKI 4320A
terre sienne brûlée 59	LC 1520 NFKI 4320D
vert olive vif	LC 1520 NFKI 4320F
terre d'ombre brûlée 59	LC 1520 NFKI 4320J
bleu outremer 59	LC 1520 NFKI 4320K
le rubis	LC 1520 NFKI 4320M
ombre naturelle 59	LC 1520 NFKI 4320R
orange vif	LC 1520 NFKI 4320S
bleu outremer foncé	LC 1520 NFKI 4320T

with screw terminals on request

Ref.-no.

Centre plate

for socket insert ref.-no. 3521 EINS

Duroplastic lacquered

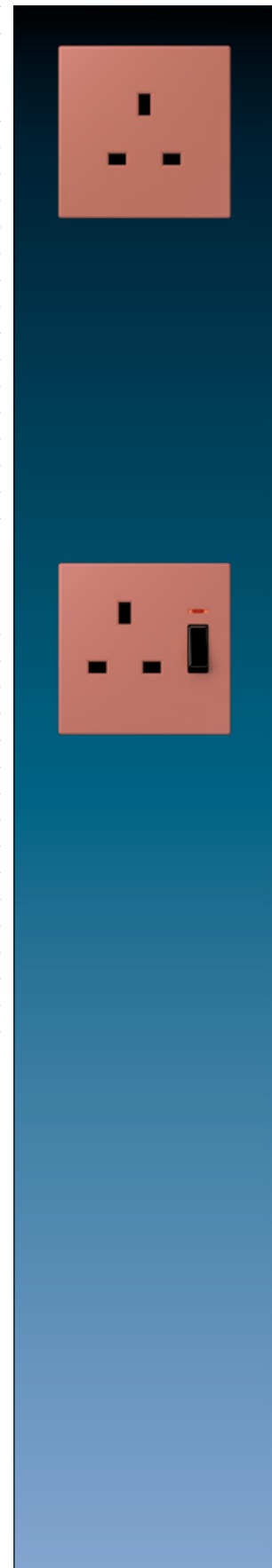
bleu céruléen 31	LC 2521 P 32030
vert foncé	LC 2521 P 32050
rouge vermillon 31	LC 2521 P 32090
terre sienne brique	LC 2521 P 32121
ombre naturelle 31	LC 2521 P 32140
ombre naturelle claire	LC 2521 P 32142
rouge vermillon 59	LC 2521 P 4320A
terre sienne brûlée 59	LC 2521 P 4320D
vert olive vif	LC 2521 P 4320F
terre d'ombre brûlée 59	LC 2521 P 4320J
bleu outremer 59	LC 2521 P 4320K
le rubis	LC 2521 P 4320M
ombre naturelle 59	LC 2521 P 4320R
orange vif	LC 2521 P 4320S
bleu outremer foncé	LC 2521 P 4320T

Centre plate

for socket insert ref.-no. 3171 KO EINS

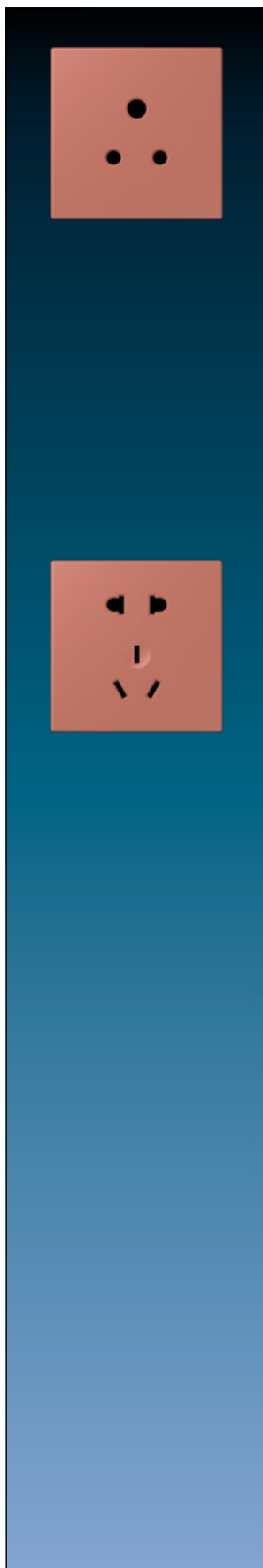
Duroplastic lacquered

bleu céruléen 31	LC 2171 KO P 32030
vert foncé	LC 2171 KO P 32050
rouge vermillon 31	LC 2171 KO P 32090
terre sienne brique	LC 2171 KO P 32121
ombre naturelle 31	LC 2171 KO P 32140
ombre naturelle claire	LC 2171 KO P 32142
rouge vermillon 59	LC 2171 KO P 4320A
terre sienne brûlée 59	LC 2171 KO P 4320D
vert olive vif	LC 2171 KO P 4320F
terre d'ombre brûlée 59	LC 2171 KO P 4320J
bleu outremer 59	LC 2171 KO P 4320K
le rubis	LC 2171 KO P 4320M
ombre naturelle 59	LC 2171 KO P 4320R
orange vif	LC 2171 KO P 4320S
bleu outremer foncé	LC 2171 KO P 4320T



LS range

Le Corbusier



Ref.-no.

Centre plate

for socket insert ref.-no. 3171-5 EINS

Duroplastic lacquered

bleu céruléen 31	LC 2171-5 P 32030
vert foncé	LC 2171-5 P 32050
rouge vermillon 31	LC 2171-5 P 32090
terre sienne brique	LC 2171-5 P 32121
ombre naturelle 31	LC 2171-5 P 32140
ombre naturelle claire	LC 2171-5 P 32142
rouge vermillon 59	LC 2171-5 P 4320A
terre sienne brûlée 59	LC 2171-5 P 4320D
vert olive vif	LC 2171-5 P 4320F
terre d'ombre brûlée 59	LC 2171-5 P 4320J
bleu outremer 59	LC 2171-5 P 4320K
le rubis	LC 2171-5 P 4320M
ombre naturelle 59	LC 2171-5 P 4320R
orange vif	LC 2171-5 P 4320S
bleu outremer foncé	LC 2171-5 P 4320T

Centre plate

for Chinese socket combination, ref.-no. 3521-5 CN EINS

Duroplastic lacquered

bleu céruléen 31	LC 35215 CNP 32030
vert foncé	LC 35215 CNP 32050
rouge vermillon 31	LC 35215 CNP 32090
terre sienne brique	LC 35215 CNP 32121
ombre naturelle 31	LC 35215 CNP 32140
ombre naturelle claire	LC 35215 CNP 32142
rouge vermillon 59	LC 35215 CNP 4320A
terre sienne brûlée 59	LC 35215 CNP 4320D
vert olive vif	LC 35215 CNP 4320F
terre d'ombre brûlée 59	LC 35215 CNP 4320J
bleu outremer 59	LC 35215 CNP 4320K
le rubis	LC 35215 CNP 4320M
ombre naturelle 59	LC 35215 CNP 4320R
orange vif	LC 35215 CNP 4320S
bleu outremer foncé	LC 35215 CNP 4320T

Ref.-no.

Socket for Switzerland

1-gang socket type 13

10 A 250 V ~, L + N + PE

screwless terminals for wires up to 2.5 mm² acc. to SEV 1011-1998/IEC 884-1

Installation in flush box according to EN 60670-1

not suitable for installation in surface caps

with supporting frame, screw fixing only

Duroplastic lacquered

bleu céruléen 31	LC 1520-13-32030
vert foncé	LC 1520-13-32050
rouge vermillon 31	LC 1520-13-32090
terre sienne brique	LC 1520-13-32121
ombre naturelle 31	LC 1520-13-32140
ombre naturelle claire	LC 1520-13-32142
rouge vermillon 59	LC 1520-13-4320A
terre sienne brûlée 59	LC 1520-13-4320D
vert olive vif	LC 1520-13-4320F
terre d'ombre brûlée 59	LC 1520-13-4320J
bleu outremer 59	LC 1520-13-4320K
le rubis	LC 1520-13-4320M
ombre naturelle 59	LC 1520-13-4320R
orange vif	LC 1520-13-4320S
bleu outremer foncé	LC 1520-13-4320T

Delivery time: please inquire for exact date

Centre plate with knob

for rotary dimmer inserts ref.-no.: 1730 DD, 1731 DD, 211 GDE

for satellite dimmer insert ref.-no.: 1733 DNE

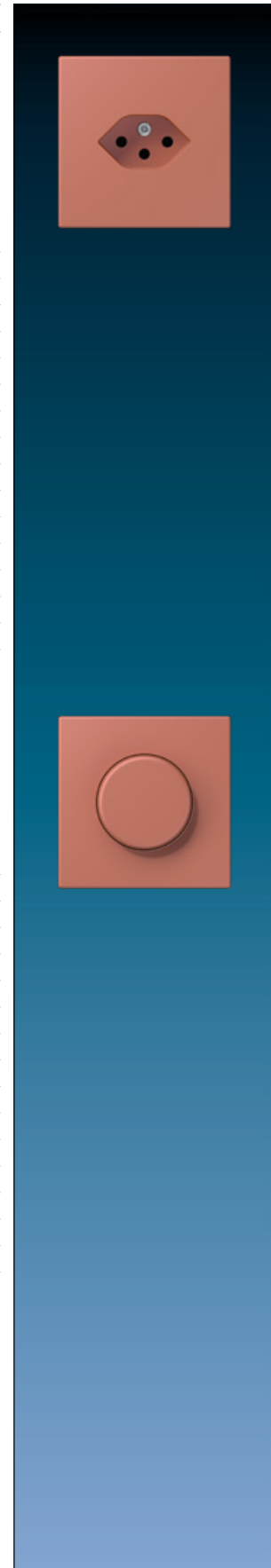
for electronic potentiometer 1 – 10 V ref.-no.: 240-10

for DALI rotary controllers ref.-no.: 1740 DSTE, 1741 DSTE

Duroplastic lacquered

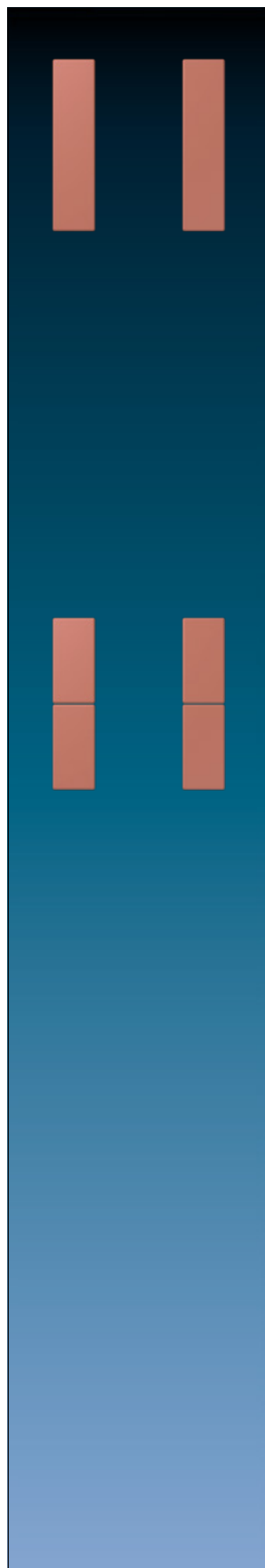
bleu céruléen 31	LC 1940 32030
vert foncé	LC 1940 32050
rouge vermillon 31	LC 1940 32090
terre sienne brique	LC 1940 32121
ombre naturelle 31	LC 1940 32140
ombre naturelle claire	LC 1940 32142
rouge vermillon 59	LC 1940 4320A
terre sienne brûlée 59	LC 1940 4320D
vert olive vif	LC 1940 4320F
terre d'ombre brûlée 59	LC 1940 4320J
bleu outremer 59	LC 1940 4320K
le rubis	LC 1940 4320M
ombre naturelle 59	LC 1940 4320R
orange vif	LC 1940 4320S
bleu outremer foncé	LC 1940 4320T

Delivery time: please inquire for exact date



LS range

Le Corbusier



Ref.-no.

Cover kit 1-gang

to clip on F 50 push-button modules 1-gang of the LS range

ref.-no.: LS 5071 TSM, LS 5091 TSM, LS 5091 TSEM, LS 5071 RF TSM, LS 5212 TSM, FM LS 5001 M

Thermoplastic (breakproof) lacquered

bleu céruléen 31	LC 501 TSA 32030
vert foncé	LC 501 TSA 32050
rouge vermillon 31	LC 501 TSA 32090
terre sienne brique	LC 501 TSA 32121
ombre naturelle 31	LC 501 TSA 32140
ombre naturelle claire	LC 501 TSA 32142
rouge vermillon 59	LC 501 TSA 4320A
terre sienne brûlée 59	LC 501 TSA 4320D
vert olive vif	LC 501 TSA 4320F
terre d'ombre brûlée 59	LC 501 TSA 4320J
bleu outremer 59	LC 501 TSA 4320K
le rubis	LC 501 TSA 4320M
ombre naturelle 59	LC 501 TSA 4320R
orange vif	LC 501 TSA 4320S
bleu outremer foncé	LC 501 TSA 4320T

Delivery time: please inquire for exact date

Cover kit 2-gang

to clip on F 50 push-button modules 2-gang of the LS range

ref.-no.: LS 5072 TSM, LS 5092 TSM, LS 5092 TSEM, LS 5178 TSM, LS 5192 KRM TS D, LS 5178 TSEM, LS 5072 RF TSM, LS 5224 TSM, FM LS 5002 M

Thermoplastic (breakproof) lacquered

bleu céruléen 31	LC 502 TSA 32030
vert foncé	LC 502 TSA 32050
rouge vermillon 31	LC 502 TSA 32090
terre sienne brique	LC 502 TSA 32121
ombre naturelle 31	LC 502 TSA 32140
ombre naturelle claire	LC 502 TSA 32142
rouge vermillon 59	LC 502 TSA 4320A
terre sienne brûlée 59	LC 502 TSA 4320D
vert olive vif	LC 502 TSA 4320F
terre d'ombre brûlée 59	LC 502 TSA 4320J
bleu outremer 59	LC 502 TSA 4320K
le rubis	LC 502 TSA 4320M
ombre naturelle 59	LC 502 TSA 4320R
orange vif	LC 502 TSA 4320S
bleu outremer foncé	LC 502 TSA 4320T

Delivery time: please inquire for exact date

Ref.-no.

Cover kit 3-gang

to clip on F 50 push-button modules 3-gang of the LS range
ref.-no.: LS 5073 TSM, LS 5093 TSM, LS 5093 TSEM, LS 5073 RF TSM,
LS 5236 TSM, FM LS 5003 M, SI TM LS 5073, SI TM LS 5093

Thermoplastic (breakproof) lacquered

bleu céruléen 31	LC 503 TSA 32030
vert foncé	LC 503 TSA 32050
rouge vermillon 31	LC 503 TSA 32090
terre sienne brique	LC 503 TSA 32121
ombre naturelle 31	LC 503 TSA 32140
ombre naturelle claire	LC 503 TSA 32142
rouge vermillon 59	LC 503 TSA 4320A
terre sienne brûlée 59	LC 503 TSA 4320D
vert olive vif	LC 503 TSA 4320F
terre d'ombre brûlée 59	LC 503 TSA 4320J
bleu outremer 59	LC 503 TSA 4320K
le rubis	LC 503 TSA 4320M
ombre naturelle 59	LC 503 TSA 4320R
orange vif	LC 503 TSA 4320S
bleu outremer foncé	LC 503 TSA 4320T

Delivery time: please inquire for exact date

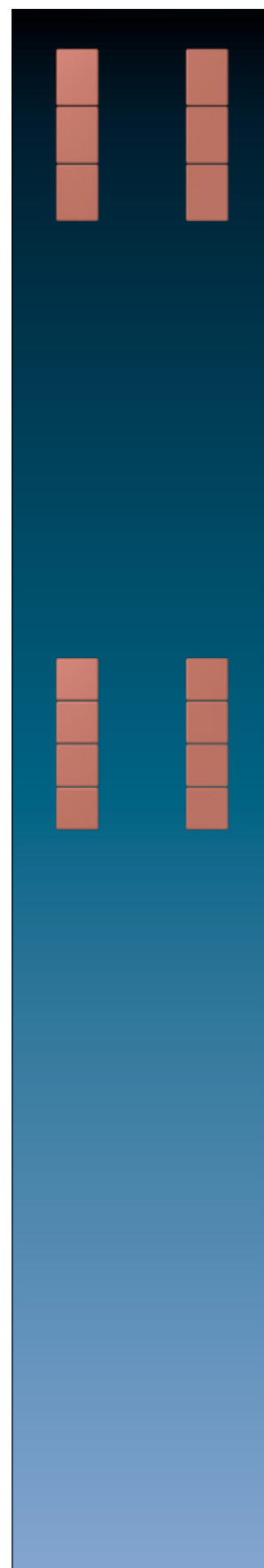
Cover kit 4-gang

to clip on F 50 push-button modules 4-gang of the LS range
ref.-no.: LS 5074 TSM, LS 5094 TSM, LS 5094 TSEM, LS 5194 KRM TS D,
LS 5074 RF TSM, LS 5248 TSM, FM LS 5004 M

Thermoplastic (breakproof) lacquered

bleu céruléen 31	LC 504 TSA 32030
vert foncé	LC 504 TSA 32050
rouge vermillon 31	LC 504 TSA 32090
terre sienne brique	LC 504 TSA 32121
ombre naturelle 31	LC 504 TSA 32140
ombre naturelle claire	LC 504 TSA 32142
rouge vermillon 59	LC 504 TSA 4320A
terre sienne brûlée 59	LC 504 TSA 4320D
vert olive vif	LC 504 TSA 4320F
terre d'ombre brûlée 59	LC 504 TSA 4320J
bleu outremer 59	LC 504 TSA 4320K
le rubis	LC 504 TSA 4320M
ombre naturelle 59	LC 504 TSA 4320R
orange vif	LC 504 TSA 4320S
bleu outremer foncé	LC 504 TSA 4320T

Delivery time: please inquire for exact date



LS range

Le Corbusier



Ref.-no.

Neutral cover

to clip on F 50 push-button modules of the LS range
ref.-no.: LS 507.. TSM, LS 509.. TSM, LS 509.. TSEM, LS 5178 TSM,
LS 5178 TSEM, LS 507.. RF TSM, LS 52.. TSM, FM LS 50.. M
dimensions: 33 x 70.5 mm

Thermoplastic (breakproof) lacquered

bleu céruléen 31	LC 50 NA 32030
vert foncé	LC 50 NA 32050
rouge vermillon 31	LC 50 NA 32090
terre sienne brique	LC 50 NA 32121
ombre naturelle 31	LC 50 NA 32140
ombre naturelle claire	LC 50 NA 32142
rouge vermillon 59	LC 50 NA 4320A
terre sienne brûlée 59	LC 50 NA 4320D
vert olive vif	LC 50 NA 4320F
terre d'ombre brûlée 59	LC 50 NA 4320J
bleu outremer 59	LC 50 NA 4320K
le rubis	LC 50 NA 4320M
ombre naturelle 59	LC 50 NA 4320R
orange vif	LC 50 NA 4320S
bleu outremer foncé	LC 50 NA 4320T

Delivery time: please inquire for exact date

Frame, 1-gang for horizontal and vertical installation

81 x 81 x 11 mm

Duroplastic lacquered

bleu céruléen 31	LC 981 32030
vert foncé	LC 981 32050
rouge vermillon 31	LC 981 32090
terre sienne brique	LC 981 32121
ombre naturelle 31	LC 981 32140
ombre naturelle claire	LC 981 32142
rouge vermillon 59	LC 981 4320A
terre sienne brûlée 59	LC 981 4320D
vert olive vif	LC 981 4320F
terre d'ombre brûlée 59	LC 981 4320J
bleu outremer 59	LC 981 4320K
le rubis	LC 981 4320M
ombre naturelle 59	LC 981 4320R
orange vif	LC 981 4320S
bleu outremer foncé	LC 981 4320T

Delivery time: please inquire for exact date

Ref.-no.

**Frame, 2-gang
for horizontal and vertical installation**

81 x 152 x 11 mm

Duroplastic lacquered

bleu céruléen 31	LC 982 32030
vert foncé	LC 982 32050
rouge vermillon 31	LC 982 32090
terre sienne brique	LC 982 32121
ombre naturelle 31	LC 982 32140
ombre naturelle claire	LC 982 32142
rouge vermillon 59	LC 982 4320A
terre sienne brûlée 59	LC 982 4320D
vert olive vif	LC 982 4320F
terre d'ombre brûlée 59	LC 982 4320J
bleu outremer 59	LC 982 4320K
le rubis	LC 982 4320M
ombre naturelle 59	LC 982 4320R
orange vif	LC 982 4320S
bleu outremer foncé	LC 982 4320T

Delivery time: please inquire for exact date

**Frame, 3-gang
for horizontal and vertical installation**

81 x 223 x 11 mm

Duroplastic lacquered

bleu céruléen 31	LC 983 32030
vert foncé	LC 983 32050
rouge vermillon 31	LC 983 32090
terre sienne brique	LC 983 32121
ombre naturelle 31	LC 983 32140
ombre naturelle claire	LC 983 32142
rouge vermillon 59	LC 983 4320A
terre sienne brûlée 59	LC 983 4320D
vert olive vif	LC 983 4320F
terre d'ombre brûlée 59	LC 983 4320J
bleu outremer 59	LC 983 4320K
le rubis	LC 983 4320M
ombre naturelle 59	LC 983 4320R
orange vif	LC 983 4320S
bleu outremer foncé	LC 983 4320T

Delivery time: please inquire for exact date



LS ZERO

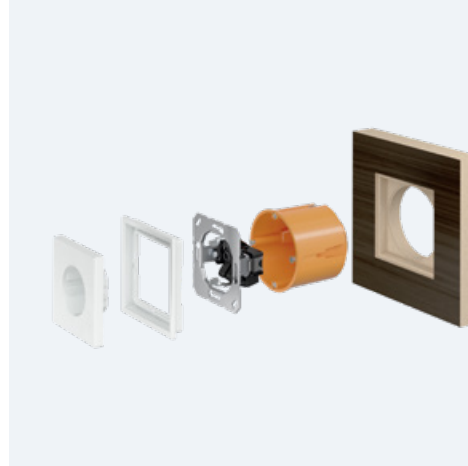
LS ZERO is the flush advancement of the LS 990 classic switch. Masonry, dry wall or furniture installation – thanks to the planar installation, the control element connects closely with its installation location. Elegant in white, precious metal colours or the Le Corbusier colours.



Mounting types

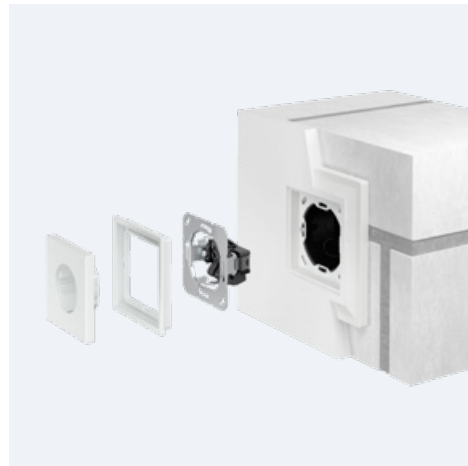
FURNITURE INSTALLATION

After milling the cut-out, commercially available cavity wall boxes are used to install the desired insert, the LS ZERO frame and the cover flush with the surface. The drawing data are available for download at jung.de/lszero.



MASONRY

With this type of installation, the plastering adapter creates a material connection with the plaster. The use of the supplied plastering cover makes neat plastering easier. The installation is performed in commercially available flush-mounting boxes.



DRY WALL

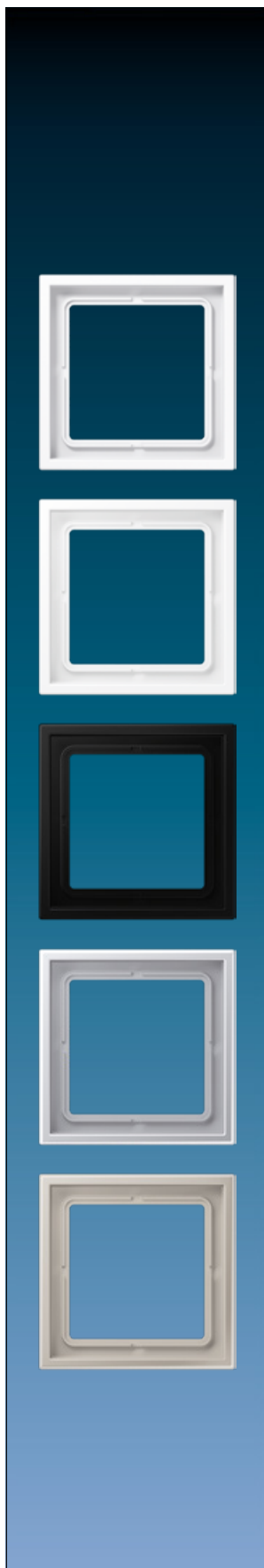
The prerequisite is a double board layer in the drywall. Commercially available cavity wall boxes are used; the plastering adapter has the same height as a plasterboard and also here allows the form-fit and material locking with the surface.



Mounting videos at jung.de/lszero

LS range

LS ZERO



Ref.-no.

Frame for horizontal and vertical installation for LS range

1-gang 81 x 81 mm
2-gang 81 x 152 mm
3-gang 81 x 223 mm

for the installation of devices and covers of the LS range into the plastering frame ref.-no.: PA 98..

Thermoplastic (breakproof) high-gloss white

1-gang	81 x 81 mm	LSZ 981 BF WW
2-gang	81 x 152 mm	LSZ 982 BF WW
3-gang	81 x 223 mm	LSZ 983 BF WW

matt lacquered matt snow white

1-gang	81 x 81 mm	LSZ 981 BF WWM
2-gang	81 x 152 mm	LSZ 982 BF WWM
3-gang	81 x 223 mm	LSZ 983 BF WWM

matt graphite black

1-gang	81 x 81 mm	LSZ 981 BF SWM
2-gang	81 x 152 mm	LSZ 982 BF SWM
3-gang	81 x 223 mm	LSZ 983 BF SWM

Thermoplastic (breakproof) lacquered aluminium

1-gang	81 x 81 mm	LSZ AL 981 BF
2-gang	81 x 152 mm	LSZ AL 982 BF
3-gang	81 x 223 mm	LSZ AL 983 BF

stainless steel

1-gang	81 x 81 mm	LSZ ES 981 BF
2-gang	81 x 152 mm	LSZ ES 982 BF
3-gang	81 x 223 mm	LSZ ES 983 BF

Ref.-no.

**Frame
for horizontal and vertical installation
for LS range**

1-gang 81 x 81 mm

2-gang 81 x 152 mm

3-gang 81 x 223 mm

for the installation of devices and covers of the LS range into the plastering frame ref.-no.: PA 98..

dark

1-gang	81 x 81 mm	LSZ AL 981 BF D
2-gang	81 x 152 mm	LSZ AL 982 BF D
3-gang	81 x 223 mm	LSZ AL 983 BF D

classic brass

1-gang	81 x 81 mm	LSZ ME 981 BF C
2-gang	81 x 152 mm	LSZ ME 982 BF C
3-gang	81 x 223 mm	LSZ ME 983 BF C

Les Couleurs® Le Corbusier on request

Plastering frame

for the flush-mounting installation of devices and covers of the LS range into flush box according to EN 60670-1

suitable for plaster or plasterboard thickness of 12.5 mm

for horizontal and vertical installation

including plaster aid

1-gang	130 x 130 x 12.5 mm	PA 981 G 125-0
2-gang	130 x 201 x 12.5 mm	PA 982 G 125-0
3-gang	130 x 272 x 12.5 mm	PA 983 G 125-0

Plastering frame

for a 3 mm flush installation of devices and covers of the LS range

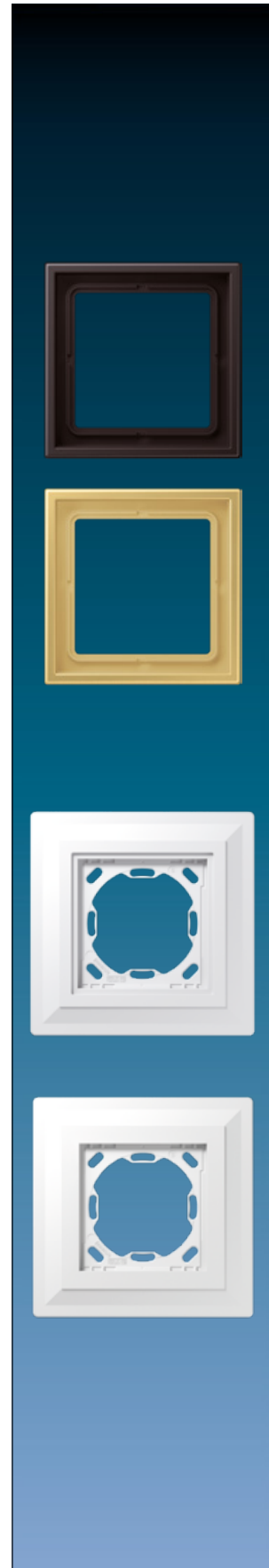
into flush box according to EN 60670-1 (3 mm structure height on the wall)

suitable for plaster or plasterboard thickness of 12.5 mm

for horizontal and vertical installation

including plaster aid

1-gang	130 x 130 x 12.5 mm	PA 981 G 125-3
2-gang	130 x 201 x 12.5 mm	PA 982 G 125-3
3-gang	130 x 272 x 12.5 mm	PA 983 G 125-3



Design language



Metal designs:

Aluminium
AlMg1 natural, matt etched



Stainless steel
1.4303 X4 CrNi 18-12 blasted with glass beads



Dark (varnished aluminium)



Chrome (chrome-plated metal)



Brass
CuZn37, bright, hand-brushed,
240 grain, clear varnish on both sides
(corrosion protection)



Detailed information on JUNG's LS 1912, design data sheets and more can be found on our website jung.de/LS1912

LS 1912

LS 1912 IN ALUMINIUM WITH CYLINDRICAL TOGGLE LEVER



LS1912[®]

Based on the JUNG switches of the early years, the rocker switch LS 1912 gives the mechanics of the switch a completely new feel. The switchgear is designed so that the cover sits flush with the frame. Only the toggle lever stands out from the unit as a style element.

LS range

LS 1912



	Ref.-no.
1-gang toggle switch insert 10 AX / 250 V ~ screwless terminals for wires up to 2.5 mm ² screw fixing only, without claws installation into flush box min. 63 mm (depth)	
1-pole, 1-way	K 501 EU
1-pole, 2-way	K 506 EU
intermediate	K 507 EU
for centre plates with toggle lever ref.-no.: ..12-0.., ..12-200.., ..12-20..	
1-gang toggle switch insert with indicator light 10 AX / 250 V ~ screwless terminals for wires up to 2.5 mm ² screw fixing only, without claws Neutral conductor required with LED lamp installation into flush box min. 63 mm (depth)	
1-pole, 2-way	K 506 KO EU
for centre plates with toggle lever ref.-no.: ..12-0 KO..	
1-gang toggle push-button insert 10 A / 250 V ~ screwless terminals for wires up to 2.5 mm ² screw fixing only, without claws installation into flush box min. 63 mm (depth)	
1-pole, 1-way (NO contact)	K 531 EU
1-pole, 2-way with terminal for N conductor	K 533 EU
for centre plates with toggle lever ref.-no.: ..12-0.., ..12-200.., ..12-20..	
2-gang toggle switch insert 10 AX / 250 V ~ screwless terminals for wires up to 2.5 mm ² screw fixing only, without claws installation into flush box min. 63 mm (depth)	
2 x 1-pole, 1-way	K 505 EU
2 x 1-pole, 1-way with 2 LED lamps	K 505 EU 5
The lamps can be exchanged without disconnecting mains.	
for centre plates with toggle lever ref.-no.: ..12-5.., ..12-250.., ..12-25..	
2-gang toggle switch insert with indicator light 10 AX / 250 V ~ screwless terminals for wires up to 2.5 mm ² screw fixing only, without claws Neutral conductor required installation into flush box min. 63 mm (depth)	
2 x 1-pole, 1-way with 2 LED lamps	K 505 KO EU 5
for centre plates with toggle lever ref.-no.: ..12-5 KO..	
2-gang toggle switch insert 10 AX / 250 V ~ screw terminals for wires up to 2.5 mm ² screw fixing only, without claws installation into flush box min. 63 mm (depth)	
2 x 1-pole, 2-way	K 509 EU
for centre plates with toggle lever ref.-no.: ..12-5.., ..12-250.., ..12-25..	

Ref.-no.

2-gang toggle push-button insert 10 A / 250 V ~

screwless terminals for wires up to 2.5 mm²

screw fixing only, without claws

installation into flush box min. 63 mm (depth)

2 x 1-pole, 1-way (NO contact)

K 535 EU

for centre plates with toggle lever ref.-no.: ..12-5.., ..12-250.., ..12-25..

2-gang toggle blind switch insert 10 AX / 250 V ~

screwless terminals for wires up to 2.5 mm²

screw fixing only, without claws

mechanical interlocking to avoid switching of both rockers at the same time

installation into flush box min. 63 mm (depth)

1-pole (1 motor)

K 509 VEU

for centre plates with toggle lever ref.-no.: ..12-5 P..

2-gang toggle blind push-button insert 10 A / 250 V ~

screwless terminals for wires up to 2.5 mm²

screw fixing only, without claws

mechanical interlocking to avoid switching of both rockers at the same time

installation into flush box min. 63 mm (depth)

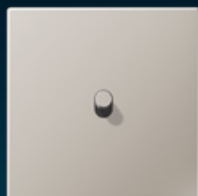
1-pole (1 motor)

K 539 VEU

for centre plates with toggle lever ref.-no.: ..12-5 P..



Ref.-no.



Centre plate with toggle lever "cylinder"

for 1-gang toggle switch inserts ref.-no.: K 501 EU, K 506 EU, K 507 EU

for 1-gang toggle push-button inserts ref.-no.: K 531 EU, K 533 EU

1 toggle lever

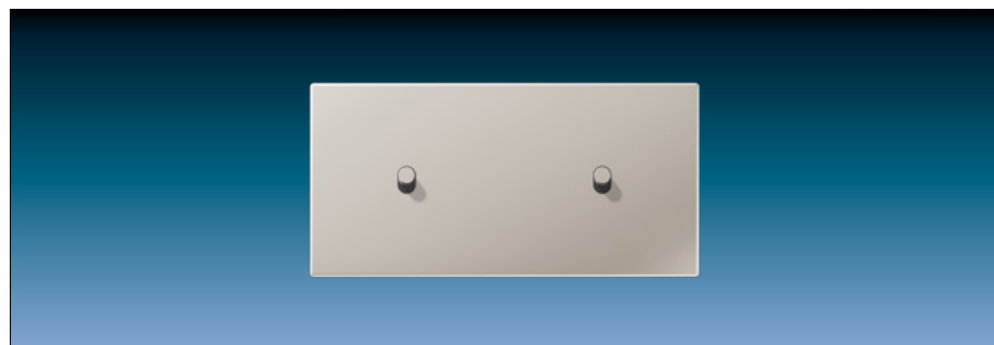
1-gang

aluminium	AL 12-0 R 0
stainless steel	ES 12-0 R 1
dark (aluminium lacquered)	AL 12-0 D R 01
classic brass	ME 12-0 C R 25

2 x 1 toggle lever

2-gang horizontal

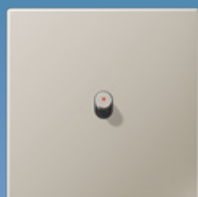
aluminium	AL 12-200 R 0
stainless steel	ES 12-200 R 1
dark (aluminium lacquered)	AL 12-200 D R 01
classic brass	ME 12-200 C R 25



2 x 1 toggle lever

2-gang vertical

aluminium	AL 12-20 R 0
stainless steel	ES 12-20 R 1
dark (aluminium lacquered)	AL 12-20 D R 01
classic brass	ME 12-20 C R 25



Centre plate with toggle lever "cylinder", with lens

for 1-gang toggle switch insert ref.-no.: K 506 KO EU

1 toggle lever

1-gang

aluminium	AL 12-0 KO R 0
stainless steel	ES 12-0 KO R 1
dark (aluminium lacquered)	AL 12-0 KO D R 01
classic brass	ME 12-0 KO C R 25

Ref.-no.

Centre plate with toggle lever "cylinder"

for 2-gang toggle switch insert ref.-no.: K 505 EU, K 509 EU

for 2-gang toggle push-button insert ref.-no.: K 535 EU

2 toggle levers

1-gang

aluminium

AL 12-5 R 0

stainless steel

ES 12-5 R 1

dark (aluminium lacquered)

AL 12-5 D R 01

classic brass

ME 12-5 C R 25

2 x 2 toggle levers

2-gang horizontal

aluminium

AL 12-250 R 0

stainless steel

ES 12-250 R 1

dark (aluminium lacquered)

AL 12-250 D R 01

classic brass

ME 12-250 C R 25



2 x 2 toggle levers

2-gang vertical

aluminium

AL 12-25 R 0

stainless steel

ES 12-25 R 1

dark (aluminium lacquered)

AL 12-25 D R 01

classic brass

ME 12-25 C R 25

Centre plate with toggle lever "cylinder", with lens

for 2-gang toggle switch insert ref.-no.: K 505 EU 5

for 2-gang toggle switch insert with indicator light ref.-no.: K 505 KO EU 5

2 toggle levers

1-gang

aluminium

AL 12-5 KO R 0

stainless steel

ES 12-5 KO R 1

dark (aluminium lacquered)

AL 12-5 KO D R 01

classic brass

ME 12-5 KO C R 25

Centre plate with toggle lever "cylinder"

with arrow symbols

for 2-gang toggle blind switch insert ref.-no.: K 509 VEU

for 2-gang toggle blind push-button insert ref.-no.: K 539 VEU

2 toggle levers

1-gang

aluminium

AL 12-5 P R 0

stainless steel

ES 12-5 P R 1

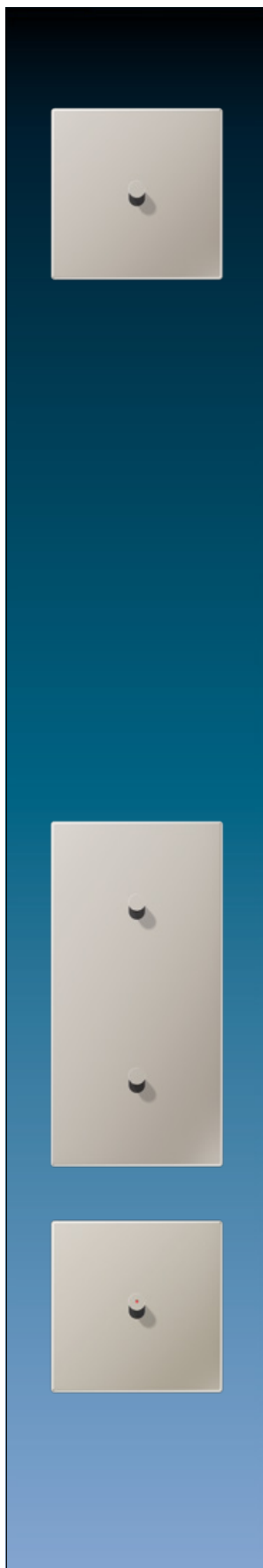
dark (aluminium lacquered)

AL 12-5 P D R 01

classic brass

ME 12-5 P C R 25





Ref.-no.

Centre plate with toggle lever "cone"

for 1-gang toggle switch inserts ref.-no.: K 501 EU, K 506 EU, K 507 EU

for 1-gang toggle push-button inserts ref.-no.: K 531 EU, K 533 EU

1 toggle lever

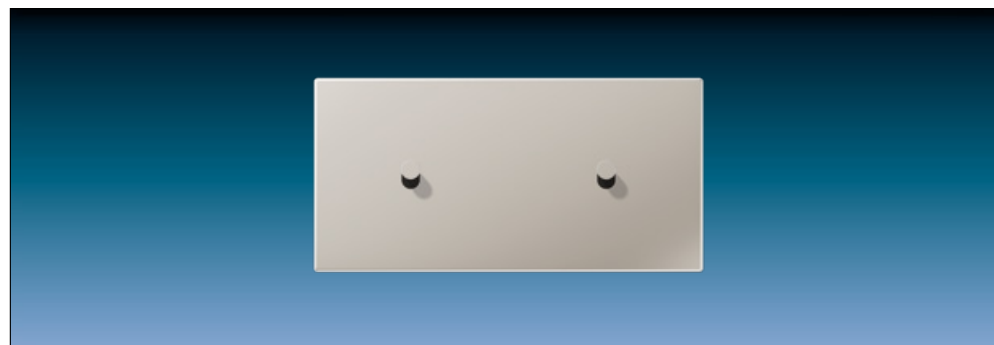
1-gang

aluminium	AL 12-0 K 0
stainless steel	ES 12-0 K 1
dark (aluminium lacquered)	AL 12-0 D K 01
classic brass	ME 12-0 C K 25

2 x 1 toggle lever

2-gang horizontal

aluminium	AL 12-200 K 0
stainless steel	ES 12-200 K 1
dark (aluminium lacquered)	AL 12-200 D K 01
classic brass	ME 12-200 C K 25



2 x 1 toggle lever

2-gang vertical

aluminium	AL 12-20 K 0
stainless steel	ES 12-20 K 1
dark (aluminium lacquered)	AL 12-20 D K 01
classic brass	ME 12-20 C K 25

Centre plate with toggle lever "cone", with lens

for 1-gang toggle switch insert ref.-no.: K 506 KO EU

1 toggle lever

1-gang

aluminium	AL 12-0 KO K 0
stainless steel	ES 12-0 KO K 1
dark (aluminium lacquered)	AL 12-0 KO D K 01
classic brass	ME 12-0 KO C K 25

Ref.-no.

Centre plate with toggle lever "cone"

for 2-gang toggle switch insert ref.-no.: K 505 EU, K 509 EU

for 2-gang toggle push-button insert ref.-no.: K 535 EU

2 toggle levers

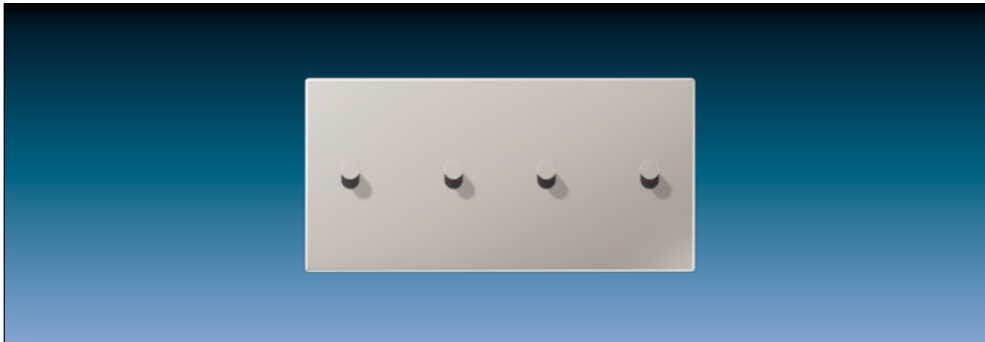
1-gang

aluminium	AL 12-5 K 0
stainless steel	ES 12-5 K 1
dark (aluminium lacquered)	AL 12-5 D K 01
classic brass	ME 12-5 C K 25

2 x 2 toggle levers

2-gang horizontal

aluminium	AL 12-250 K 0
stainless steel	ES 12-250 K 1
dark (aluminium lacquered)	AL 12-250 D K 01
classic brass	ME 12-250 C K 25



2 x 2 toggle levers

2-gang vertical

aluminium	AL 12-25 K 0
stainless steel	ES 12-25 K 1
dark (aluminium lacquered)	AL 12-25 D K 01
classic brass	ME 12-25 C K 25

Centre plate with toggle lever "cone", with lens

for 2-gang toggle switch insert ref.-no.: K 505 EU 5

for 2-gang toggle switch insert with indicator light ref.-no.: K 505 KO EU 5

2 toggle levers

1-gang

aluminium	AL 12-5 KO K 0
stainless steel	ES 12-5 KO K 1
dark (aluminium lacquered)	AL 12-5 KO D K 01
classic brass	ME 12-5 KO C K 25

Centre plate with toggle lever "cone"

with arrow symbols

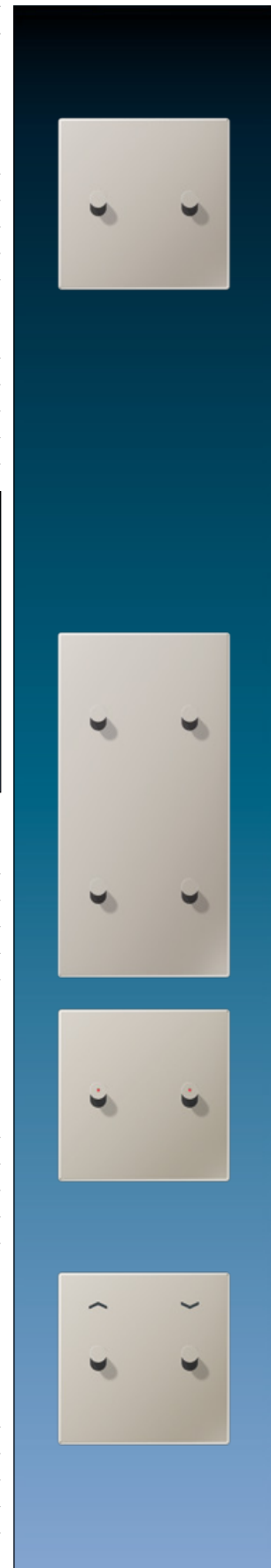
for 2-gang toggle blind switch insert ref.-no.: K 509 VEU

for 2-gang toggle blind push-button insert ref.-no.: K 539 VEU

2 toggle levers

1-gang

aluminium	AL 12-5 P K 0
stainless steel	ES 12-5 P K 1
dark (aluminium lacquered)	AL 12-5 P D K 01
classic brass	ME 12-5 P C K 25





Ref.-no.

Centre plate with toggle lever "cube"

for 1-gang toggle switch inserts ref.-no.: K 501 EU, K 506 EU, K 507 EU

for 1-gang toggle push-button inserts ref.-no.: K 531 EU, K 533 EU

1 toggle lever

1-gang

chrome

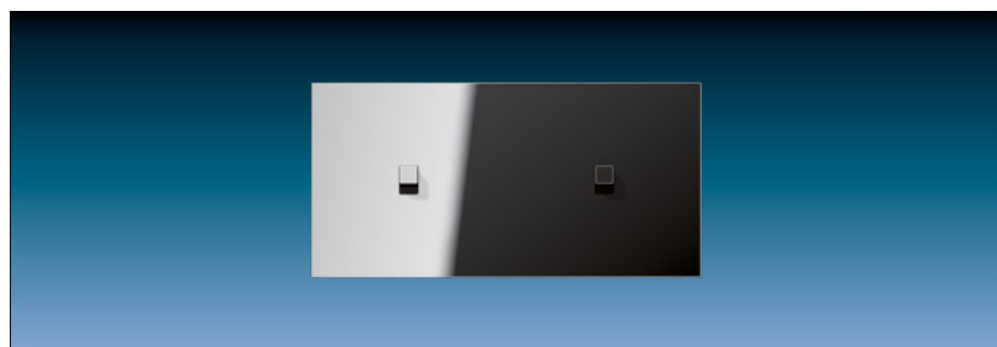
GCR 12-0 E 22

2 x 1 toggle lever

2-gang horizontal

chrome

GCR 12-200 E 22



2 x 1 toggle lever

2-gang vertical

chrome

GCR 12-20 E 22

Centre plate with toggle lever "cube", with lens

for 1-gang toggle switch insert ref.-no.: K 506 KO EU

1 toggle lever

1-gang

chrome

GCR 12-0 KO E 22

Ref.-no.

Centre plate with toggle lever "cube"

for 2-gang toggle switch insert ref.-no.: K 505 EU, K 509 EU

for 2-gang toggle push-button insert ref.-no.: K 535 EU

2 toggle levers

1-gang

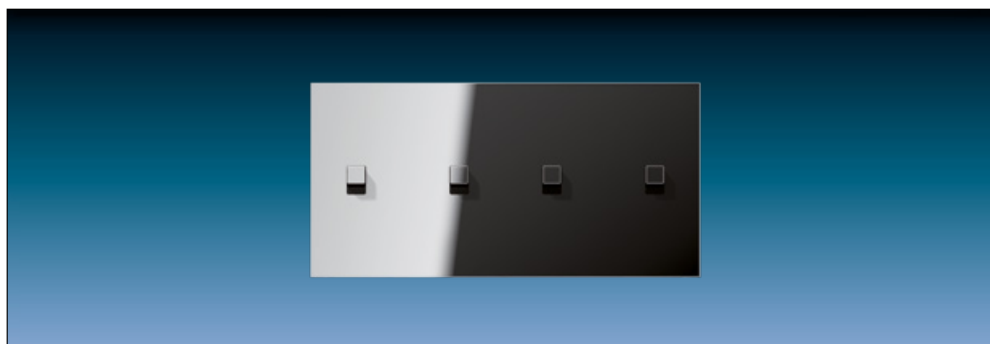
chrome

GCR 12-5 E 22

2 x 2 toggle levers

2-gang horizontal

chrome

GCR 12-250 E 22

2 x 2 toggle levers

2-gang vertical

chrome

GCR 12-25 E 22**Centre plate with toggle lever "cube", with lens**

for 2-gang toggle switch insert ref.-no.: K 505 EU 5

for 2-gang toggle switch insert with indicator light ref.-no.: K 505 KO EU 5

2 toggle levers

1-gang

chrome

GCR 12-5 KO E 22**Centre plate with toggle lever "cube"**

with arrow symbols

for 2-gang toggle blind switch insert ref.-no.: K 509 VEU

for 2-gang toggle blind push-button insert ref.-no.: K 539 VEU

2 toggle levers

1-gang

chrome

GCR 12-5 P E 22

Surface-mounted ranges



WG 800



AP 600



WG 600

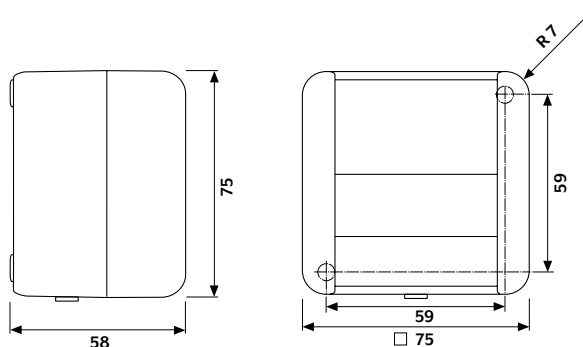
For increased requirements for the electrical installation: the JUNG surface-mounted ranges WG 800, WG 600 and AP 600. Made of robust material, they are ideally suitable for installation where no chiselling work can or should be carried out for laying cables.



WG 800



Perfect in form and function, resistant to weathering and UV radiation to the greatest possible extent and made of unbreakable thermoplastic: The WG 800 that is also protected against sprayed water can be illuminated and lettered throughout and sets new standards for professional electrical installation work through the ample amount of space allowed for the wiring.



<u>Frame edge radius</u>	<u>Switch / socket dimensions (WxHxD)</u>	<u>Switch / socket combination (WxHxD)</u>
R 7	75 mm x 75 mm x 58 mm	75 mm x 151 mm x 58 mm

	Ref.-no.
1-gang switch 10 AX / 250 V ~	
screwless terminals for wires up to 2.5 mm ²	
1-pole, 2-way	806 W
intermediate	807 W
Rocker with symbols I 0	
2-pole, 1-way	802 W
Switch can be illuminated in OFF-position with lamp ref.-no. 90/95 (230 V), 96-.. (low voltage), or LED lamp ref.-no. 90-LED.. (230 V) or 961248 LED.. (low voltage).	
1-gang switch 16 AX / 400 V ~	
screw terminals for wires up to 4 mm ²	
Rocker with symbols I 0	
3-pole, 1-way	803 W
Switch can be illuminated in OFF-position with lamp ref.-no. 98 or 98-220 (230 V).	
1-gang switch 10 AX / 250 V ~	
with inscription field 22 x 48 mm	
screwless terminals for wires up to 2.5 mm ²	
1-pole, 2-way	806 NAW
Switch can be illuminated in OFF-position with lamp ref.-no. 90/95 (230 V), 96-.. (low voltage), or LED lamp ref.-no. 90-LED.. (230 V) or 961248 LED.. (low voltage).	
1-gang switch 10 AX / 250 V ~	
with indicator light	
Neutral conductor required	
with red insert (ref.-no.: 33 NR) and glow lamp (ref.-no.: 90)	
screwless terminals for wires up to 2.5 mm ²	
1-pole, 2-way	806 KOW
Rocker with symbols I 0	
2-pole, 1-way	802 KOW
1-gang switch 16 AX / 400 V ~	
with indicator light	
with red insert (ref.-no.: 33 NR) and glow lamp (ref.-no.: 98)	
screw terminals for wires up to 4 mm ²	
Rocker with symbols I 0	
3-pole, 1-way	803 KOW
1-gang push-button 10 A / 250 V ~	
with neutral insert (ref.-no.: 33 AN N)	
screwless terminals for wires up to 2.5 mm ²	
1-pole, 1-way (NO contact)	831 W
1-pole, 2-way with terminal for N conductor	833 W
1-pole, 1-way (NO contact) with separate contacts for indicator light and red insert	834 W
Illumination possible with lamp ref.-no. 90/95 (230 V), 96-.. (low voltage), or LED lamp ref.-no. 90-LED.. (230 V) or 961248 LED.. (low voltage).	





Ref.-no.

1-gang push-button 10 A / 250 V ~

with neutral insert (ref.-no.: 33 AN N)
screw terminals for wires up to 2.5 mm²
2-pole, 2-way

IP 833-2 W

Insert with symbol, opaque

for switches with indicator light and push-buttons in design range WG 800

anthracite

symbol light	33 AN L
symbol bell	33 AN K
symbol door	33 AN T

Insert without symbol, opaque

for switches with indicator light and push-buttons in design range WG 800

anthracite	33 AN N
------------	----------------

Insert without symbol, translucent

for switches with indicator light and push-buttons in design range WG 800

green	33 GN
red	33 NR
transparent	33 KLAR

1-gang push-button 10 A / 250 V ~

with inscription field 22 x 48 mm
screwless terminals for wires up to 2.5 mm²
1-pole, 1-way (NO contact)

IP 831 NAW

Switch can be illuminated in OFF-position with lamp ref.-no. 90/95 (230 V), 96-.. (low voltage), or LED lamp ref.-no. 90-LED.. (230 V) or 961248 LED.. (low voltage).

1-gang rocker with glass plate

with red rocker and red lens
for all waterproof 1-gang switches/push-buttons of WG 800

red	similar RAL 3000	IP	860 WGL RT
blue	similar RAL 5015	IP	860 WGL BL
yellow	similar RAL 1004	IP	860 WGL GE

Glass plate

(Spare part)
64 x 53 x 1 mm (W x H x D)

60 GL

Ref.-no.

Pull cord switch 10 AX / 250 V ~

screw terminals for wires up to 2.5 mm²
for wall and ceiling installation
with 50 mm pull cord
1-pole, 2-way

IP

806 ZW**Pull cord push-button 10 A / 250 V ~**

screw terminals for wires up to 2.5 mm²
for wall and ceiling installation
without terminal for neutral conductor, cannot be illuminated
with 50 mm pull cord
1-pole, 2-way

IP

833 ZW**2-gang switch 10 AX / 250 V ~**

screwless terminals for wires up to 2.5 mm²
2 x 1-pole, 1-way

IP

805 W

with inscription fields 22 x 22 mm

IP

805 NAW

Switch can be illuminated in OFF-position with lamp ref.-no. 99 (230 V).

2-gang switch 10 AX / 250 V ~

screw terminals for wires up to 2.5 mm²
2 x 1-pole, 2-way

IP

809 W

with inscription fields 22 x 22 mm

IP

809 NAW**2-gang push-button, 10 A / 250 V ~**

screw terminals for wires up to 2.5 mm²
2 x 1-pole, 2-way

IP

839 W

with inscription fields 22 x 22 mm

IP

839 NAW**2-gang push-button, 10 A / 250 V ~**

screwless terminals for wires up to 2.5 mm²
2 x 1-pole, 1-way (NO contact)

IP

835 W

with inscription fields 22 x 22 mm

IP

835 NAW

Switch can be illuminated in OFF-position with lamp ref.-no. 99 (230 V).





	Ref.-no.
Rocker with inscription field (illumination possible, see insert)	
1-gang rocker with inscription field 22 x 48 mm	800 NA
2-gang rocker with inscription fields 22 x 22 mm	805 NA
2-gang blind switch 10 AX / 250 V ~ mechanical interlocking to avoid switching of both rockers at the same time screwless terminals for wires up to 2.5 mm ²	809 VW
2-gang blind push-button 10 A / 250 V ~ mechanical interlocking to avoid switching of both rockers at the same time screwless terminals for wires up to 2.5 mm ²	839 VW
Rotary blind switch/push-button 10 A / 250 V ~ with inscription field 9 x 50 mm screw terminals for wires up to 2.5 mm ² Can be converted into rotary push-button by means of locking piece (included).	834.10 W
1-pole (1 motor)	834.20 W
2-pole (2 motors)	834.20 W
A pre-travel prevents a quick change of direction.	
Locking piece (Spare part) for ref.-no.: 1234.10, 1234.20, 834.10 W, 834.20 W	34.10
Key switch/push-button integrated locking plate for locking cylinder with total length of approx. 40 mm, e.g. ref.-no.: 28, 28 G1 with inscription field 9 x 50 mm screw terminals for wires up to 2.5 mm ² When using locking cylinder from other manufacturer, please consider, that the cylinder has key access on only one side. (Otherwise water can get through the cylinder into the switch housing. IP 44 is thus not guaranteed.)	
10 AX 250 V ~ Blind switch, 1-pole (1 motor) *	804.18 W
10 A 250 V ~ Blind push-button, 1-pole (1 motor) *	834.18 W
Push-button, 1-pole, 2-way	833.18 W
16 AX 250 V ~ Switch, 1-pole, 2-way	806.18 W
* A pre-travel prevents a quick change of direction. removal of key switch/push-button front cover is only possible when profile cylinder is in unlocked position	

Ref.-no.

Key switch/push-button

delivery without locking plate

for locking cylinder with total length of approx. 40 mm, e.g. ref.-no.: 28, 28 G1

screw terminals for wires up to 2.5 mm²

with 1 inlet M 20 x 1.5 at the bottom, with PE terminal

aluminium housing 90 x 75 x 65 mm

colour of housing: silver-grey (similar RAL 7001), cover: metallic anthracite

When using locking cylinder from other manufacturer, please consider, that the cylinder has key access on only one side. (Otherwise water can get through the cylinder into the switch housing. IP 44 is thus not guaranteed.)

10 AX 250 V ~Blind switch, 2-pole (2 motors) *  **804.28 G****10 A 250 V ~**Blind push-button, 2-pole (2 motors) *  **834.28 G**Push-button, 1-pole, 2-way  **833.18 G****16 AX 250 V ~**Switch, 2-pole, 2-way  **806.28 G**

* A pre-travel prevents a quick change of direction.

Locking plate

for key switch ref.-no.: 804.28 G, 834.28 G, 833.18 G, 806.28 G

18 V

removal of key switch/push-button front cover is only possible when profile cylinder is in unlocked position

Metal cover, 125 x 100 mm

for flush installation of aluminium housing

colour: aluminium

for key switch ref.-no.: 804.28 G, 834.28 G, 833.18 G, 806.28 G

with symbols **4.28 WU G**without symbols **6.28 WU G****Locking cylinder for key switches**

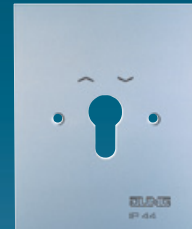
suitable for IP 44

with 3 keys

different locks **28**equal locks **28 G1****Key****for locking cylinder 28 G1**

for key switches

(Spare part)

1 piece **28 G1 SL****SCHUKO® socket 16 A / 250 V ~**screwless terminals for wires up to 2.5 mm² **820 W**with enhanced contact protection (shutter)  **820 KIW**



Ref.-no.

SCHUKO® socket 16 A / 250 V ~
with inscription field 22 x 48 mm
 screwless terminals for wires up to 2.5 mm²

with enhanced contact protection (shutter)
 green hinged lid
 orange hinged lid

IP	820 NAW
IP	820 KINAW
IP	820 GN NAW
IP	820 O NAW

SCHUKO® socket 16 A / 250 V ~
with inscription field 22 x 48 mm
with e-bike charging symbol
 screwless terminals for wires up to 2.5 mm²
 green hinged lid

IP	820 GN NAWEB
----	---------------------

SCHUKO® socket 16 A / 250 V ~
with safety lock
with inscription field 22 x 48 mm
 screwless terminals for wires up to 2.5 mm²
 with 2 keys (24 different locks)

IP	820 NAWSL
----	------------------

SCHUKO® socket 16 A / 250 V ~
with safety lock
with inscription field 22 x 48 mm
with e-bike charging symbol
 screwless terminals for wires up to 2.5 mm²
 with 2 keys (24 different locks)green hinged lid

IP	820 GN NAWSL
----	---------------------



Key

1 piece

802 SL – 825 SL

When ordering, please indicate lock number!

SCHUKO® socket 16 A / 250 V ~
with 1-gang / 2-way switch 10 AX / 250 V ~
 screwless terminals for wires up to 2.5 mm²

IP	876 W
----	--------------

dimensions 75 x 151 x 58 mm, 2 inlets
 Switch can be illuminated in OFF-position with lamp ref.-no. 90/95 (230 V), 96-.. (low voltage),
 or LED lamp ref.-no. 90-LED.. (230 V) or 961248 LED.. (low voltage).

Ref.-no.

SCHUKO® socket 16 A / 250 V ~**with push-button 10 A / 250 V ~**screwless terminals for wires up to 2.5 mm²

1-pole, 1-way (NO contact)

**871 W**

dimensions 75 x 151 x 58 mm, 2 inlets

with neutral insert (ref.-no.: 33 AN N)

Switch can be illuminated in OFF-position with lamp ref.-no. 90/95 (230 V), 96-.. (low voltage), or LED lamp ref.-no. 90-LED.. (230 V) or 961248 LED.. (low voltage).

SCHUKO® socket 16 A / 250 V ~**with 2-gang switch 10 AX / 250 V ~**screwless terminals for wires up to 2.5 mm²**875 W**

dimensions 75 x 151 x 58 mm, 2 inlets

Switch can be illuminated in OFF-position with lamp ref.-no. 99 (230 V).

SCHUKO® socket 16 A / 250 V ~**with 1-gang / 2-way switch with indicator light 10 AX 250 V ~**

Neutral conductor required

screwless terminals for wires up to 2.5 mm²**876 KOW**

dimensions 75 x 151 x 58 mm, 2 inlets

with red insert (ref.-no.: 33 NR) and plug-in neon lamp (ref.-no.: 90)





Ref.-no.

SCHUKO® socket 16 A / 250 V ~
with 1-gang / 2-way switch 10 AX / 250 V ~
 with two inscription fields 22 x 48 mm
 screwless terminals for wires up to 2.5 mm²

IP 876 NAW

dimensions 75 x 151 x 58 mm, 2 inlets
 Switch can be illuminated in OFF-position with lamp ref.-no. 90/95 (230 V), 96-.. (low voltage),
 or LED lamp ref.-no. 90-LED.. (230 V) or 961248 LED.. (low voltage).

2-gang SCHUKO® socket 16 A / 250 V ~
wired
 screwless terminals for wires up to 2.5 mm²
for vertical installation, housing 75 x 151 x 58 mm

2 inlets, 2 single covers **IP 822 W**

for horizontal installation, housing 151 x 75 x 58 mm

4 inlets, 2 single covers **IP 8220 W**

4 inlets, 1 double cover **IP 8220-1 W**

inlet for trunking ref.-no: 895

2-gang SCHUKO® socket 16 A / 250 V ~
wired
 with two inscription fields 22 x 48 mm
 screwless terminals for wires up to 2.5 mm²
for vertical installation, housing 75 x 151 x 58 mm

2 inlets, 2 single covers **IP 822 NAW**

2 inlets, 2 single covers with enhanced contact protection (shutter) **IP 822 KINAW**

for horizontal installation, housing 151 x 75 x 58 mm

4 inlets, 2 single covers **IP 8220 NAW**

4 inlets, 2 single covers with enhanced contact protection (shutter) **IP 8220 KINAW**

Ref.-no.

**2-gang SCHUKO® socket 16 A / 250 V ~
with e-bike charging symbol****wired**

with two inscription fields 22 x 48 mm
screwless terminals for wires up to 2.5 mm²

for horizontal installation, housing 151 x 75 x 58 mm

4 inlets, 2 single covers, green hinged lid

**8220 GN NAWEB****2-gang SCHUKO® socket 16 A / 250 V ~
with 2 safety locks****wired**

(equal locks) with 4 keys
with two inscription fields 22 x 48 mm
screwless terminals for wires up to 2.5 mm²

for vertical installation, housing 75 x 151 x 58 mm

2 inlets, 2 single covers

**822 NAWSL****for horizontal installation, housing 151 x 75 x 58 mm**

4 inlets, 2 single covers

**8220 NAWSL****2-gang SCHUKO® socket 16 A / 250 V ~
with 2 safety locks****with e-bike charging symbol****wired**

(equal locks) with 4 keys
with two inscription fields 22 x 48 mm
screwless terminals for wires up to 2.5 mm²

for horizontal installation, housing 151 x 75 x 58 mm

4 inlets, 2 single covers, green hinged lid

**8220 GN NAWSL****Key**

1 piece

802 SL – 825 SL

When ordering, please indicate lock number!



Ref.-no.

**3-gang SCHUKO® socket 16 A / 250 V ~
wired**

screwless terminals for wires up to 2.5 mm²

for horizontal installation, housing 226 x 75 x 58 mm

5 inlets



8230 W

5 inlets, 3 inscription fields 22 x 48 mm



8230 NAW

(3 single covers)

Socket outlets may be replaced by switches , push-buttons, pilot lights or socket outlets with safety lock



Socket, French/Belgian system

2-pole + male earth pin, 16 A / 250 V ~

with enhanced contact protection (shutter)

screw terminals for wires up to 2.5 mm² acc. to NFC 61-314



821 FKI W

2-gang socket, French/Belgian system

2-pole + male earth pin, 16 A / 250 V ~

with enhanced contact protection (shutter)

screw terminals for wires up to 2.5 mm² acc. to NFC 61-314

for horizontal installation, housing 151 x 75 x 58 mm



8221 FKI W



Ref.-no.

3-gang socket, French/Belgian system

2-pole + male earth pin, 16 A / 250 V ~
with enhanced contact protection (shutter)
screw terminals for wires up to 2.5 mm² acc. to NFC 61-314
for horizontal installation, housing 226 x 75 x 58 mm

IP	8231 FKI W
----	-------------------

**Socket US NEMA system****15 A, 125 V ~, 5-15R, 2-pole + earth**screw terminals for wires up to 4 mm² acc. to US-NEMA

IP	821-15 USW
----	-------------------

Socket US NEMA system**20 A, 125 V ~, 5-20R, 2-pole + earth**screw terminals for wires up to 4 mm² acc. to US-NEMA

IP	821-20 USW
----	-------------------

Pilot light (without cap)screw terminals for wires up to 2.5 mm²

thread E10 (max. load 5 W)

IP	837-10 W
----	-----------------

thread E14 (max. load 5 W)

IP	837-14 W
----	-----------------

LED lamp

approx. 36 mm long

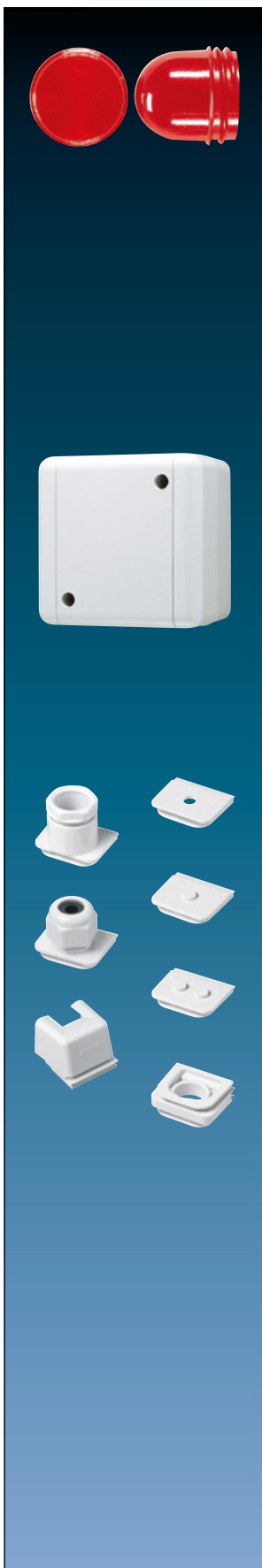
for pilot lights ref.-no.: 938-14 U, 837-14 W, 637-14 W, 637-14 A, 637-14 A WW

E14, 230 V ~, 0.4 W

white	E 14 LED W
green	E 14 LED GN
red	E 14 LED RT

average life approx. 30 000 h





Ref.-no.

Screw cap

for pilot lights ref.-no.: 837-10 W, 837-14 W

flat, for lamps up to max. length of 35 mm

transparent	37.02
red	37.05
green	37.06
yellow	37.07
blue	37.08

high, for lamps up to max. length of 54 mm

transparent	37
red	37 R
green	37 G
yellow	37 GE
blue	37 BL

Junction box

with 2 inlets

IP 800 AW

The junction box can also be used for tubing and cable duct installation with the respective adapters. The junction box serves for various solutions e.g. the integration of the KNX push-button interface into the WG 800 / WG 600 range.

Admissible ambient temperature in combination with the KNX system: -5 °C to +45 °C

Accessories

for waterproof devices WG 800 and special devices

(Spare part)

connecting pipe	IP 892
inlet with PG 16 thread + screw	IP 893-1
inlet with thread + screw M 20 x 1.5	IP 893-2
inlet with 2 openings	IP 894
inlet with 1 opening	IP 891
closed inlet	IP 890
inlet for trunking 15 x 15 mm	IP 895

Ref.-no.

Rotary dimmer with 2-way push switch

IP

823 NVDW

with potentiometer to adjust the minimum brightness

Intended use

- Switching and dimming of incandescent lamps, HV halogen lamps as well as dimmable inductive transformers with halogen or LED lamps
- Switching and dimming of dimmable HV LED lamps or compact fluorescent lamps
- No mixed-load operation of HV LED and compact fluorescent lamps. All other specified load types can be used in mixed-load operation.

Product characteristics

- Dimming method: leading edge phase control
- Short-circuit protection through fine-wire fuse
- Electronic over-temperature protection
- Satellite switching possible in combination with 2-way switch
- Control output A to output the switching status of the device to control automatic power disconnection or relay
- Dimensions 75 x 90 x 58 mm, 2 inlets

Technical data

Rated voltage:	AC 230 V ~, 50 Hz
Connected load:	max. 375 VA / W incl. approx. 5 % power loss
Dimming method:	leading edge phase control
Lamp loads	
Incandescent lamps:	20 ... 375 W
HV halogen lamps:	20 ... 375 W
Inductive transformers:	20 ... 375 VA
Dimmable HV LED lamps:	typical 3 ... 100 W
Dimmable compact fluorescent lamps:	typical 3 ... 100 W
Fuse, type:	T 3.15 A H 250 V
Connection mode:	screwless connection
Terminals for:	2.5 mm ²



Transformers must be charged with at least 85 % of rated power with lamps.

The total electrical load, including power loss of transformer, must not exceed the maximum load.

Timer switch 16 AX / 250 V ~screw terminals for wires up to 4 mm²

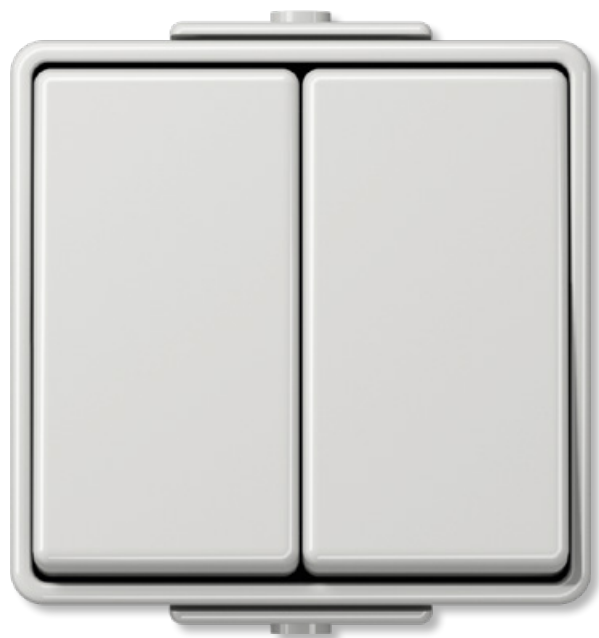
accuracy ± 10 %

2-pole, 1-way	max. 15 minutes	IP	8015 W
	max. 120 minutes	IP	8012 W

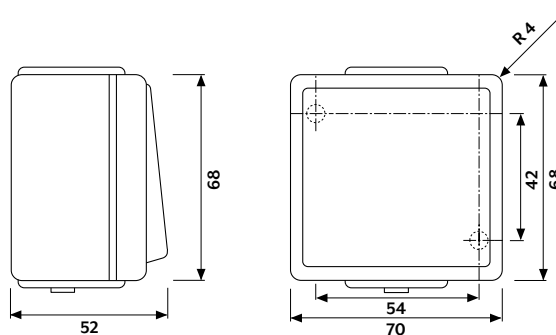
dimensions 75 x 90 x 58 mm, 2 inlets














WG 600



The surface-mounting units in the WG 600 range that are protected against splash water are not only resistant to external influences but are also extremely easy to install. Their special features are the flat, compact design and the very easy operation thanks to the generously sized rockers.



<u>Frame edge radius</u>	<u>Switch / socket dimensions (WxHxD)</u>	<u>Switch / socket combination (WxHxD)</u>
R 4	70 mm x 68 mm x 47 mm	70 mm x 140 mm x 47 mm

	Ref.-no.
1-gang switch 10 AX / 250 V ~	
screwless terminals for wires up to 2.5 mm ²	
1-pole, 1-way	 601 W
1-pole, 2-way	 606 W
intermediate	 607 W
Rocker with symbols I 0	
2-pole, 1-way	 602 W
Switch can be illuminated in OFF-position with lamp ref.-no. 90/95 (230 V), 96-.. (low voltage), or LED lamp ref.-no. 90-LED.. (230 V) or 961248 LED.. (low voltage).	
1-gang switch 10 AX / 250 V ~	
with inscription field 17 x 72 mm	
screwless terminals for wires up to 2.5 mm ²	
1-pole, 2-way	 606 NAW
Switch can be illuminated in OFF-position with lamp ref.-no. 90/95 (230 V), 96-.. (low voltage), or LED lamp ref.-no. 90-LED.. (230 V) or 961248 LED.. (low voltage).	
Transparent cover with paper inlay	
for inscription field 17 x 72 mm	
(Spare part)	
paper inlay white	606 NA
1-gang switch 16 AX / 400 V ~	
dimensions: 70 x 90 x 47 mm	
screw terminals for wires up to 4 mm ²	
Rocker with symbols I 0	
3-pole, 1-way	 603 W
Switch can be illuminated in OFF-position with lamp ref.-no. 98 or 98-220 (230 V). The insert also fits housing of 70 x 68 mm if e.g. the 1-gang rocker with glass plate ref.-nr. 661 WGL.. is to be used.	
1-gang switch 10 AX / 250 V ~	
with indicator light	
Neutral conductor required	
with red insert (ref.-no.: 33 NR) and glow lamp (ref.-no.: 90)	
screwless terminals for wires up to 2.5 mm ²	
1-pole, 2-way	 606 KOW
Rocker with symbols I 0	
2-pole, 1-way	 602 KOW
1-gang push-button 10 A / 250 V ~ (without lens insert)	
screwless terminals for wires up to 2.5 mm ²	
1-pole, 1-way (NO contact)	 631 W
1-pole, 2-way with terminal for N conductor	 633 W
1-pole, 1-way (NO contact) with separate contacts for indicator light	 634 W
Illumination possible with lamp ref.-no. 90/95 (230 V), 96-.. (low voltage), or LED lamp ref.-no. 90-LED.. (230 V) or 961248 LED.. (low voltage).	



WG 600

IP 44



Ref.-no.

1-gang push-button 10 A / 250 V ~ (without lens insert)

screw terminals for wires up to 2.5 mm²

2-pole, 2-way



633-2 W

Insert with symbol, opaque

for switches with indicator light and push-buttons in design range WG 600

ivory

symbol light

33 L

symbol bell

33 K

symbol door

33 T

Insert without symbol, translucent

for switches with indicator light and push-buttons in design range WG 600

green

33 GN

transparent

33 KLAR

orange

33 O

red

33 NR

1-gang push-button 10 A / 250 V ~

with inscription field 17 x 72 mm

screwless terminals for wires up to 2.5 mm²

1-pole, 1-way (NO contact)



631 NAW

Switch can be illuminated in OFF-position with lamp ref.-no. 90/95 (230 V), 96-.. (low voltage), or LED lamp ref.-no. 90-LED.. (230 V) or 961248 LED.. (low voltage).

1-gang rocker with inscription field 17 x 72 mm

(illumination possible, see insert)

for 1-gang switches and push-buttons

600 NA

Transparent cover with paper inlay

for inscription field 17 x 72 mm

(Spare part)

paper inlay white

606 NA

1-gang rocker with glass plate

with red rocker and red lens

for all waterproof 1-gang switches/push-buttons of WG 600, except ref.-no.: 603..

red similar RAL 3000



661 WGL R

blue similar RAL 5015



661 WGL BL

yellow similar RAL 1004










661 WGL GE

Glass plate

(Spare part)

62.5 x 61 x 1 mm (W x H x D)

61 GL

	Ref.-no.
2-gang switch 10 AX / 250 V ~ screwless terminals for wires up to 2.5 mm ² 2 x 1-pole, 1-way	 605 W
Switch can be illuminated in OFF-position with lamp ref.-no. 99 (230 V).	
2-gang push-button, 10 A / 250 V ~ with assorted symbols screw terminals for wires up to 2.5 mm ² 2 x 1-pole, 2-way	 639 W
Symbol range: 2 x neutral (white) 1 x green with labelling I 1 x red with labelling 0	
2-gang blind switch 10 AX / 250 V ~ mechanical interlocking to avoid switching of both rockers at the same time screwless terminals for wires up to 2.5 mm ² 1-pole (1 motor)	 609 VW
2-gang blind push-button 10 A / 250 V ~ mechanical interlocking to avoid switching of both rockers at the same time screwless terminals for wires up to 2.5 mm ² 1-pole (1 motor)	 639 VW
SCHUKO® socket 16 A / 250 V ~ with hollow space for wiring screwless terminals for wires up to 2.5 mm ² Height 55 mm	 620 WX
SCHUKO® socket 16 A / 250 V ~ screwless terminals for wires up to 2.5 mm ² Height 47 mm	 620 W
SCHUKO® socket 16 A / 250 V ~ screw terminals for wires up to 2.5 mm ² Height 47 mm	 621 WX





Ref.-no.

SCHUKO® socket 16 A / 250 V ~
with inscription field 17 x 72 mm
 screwless terminals for wires up to 2.5 mm²
 Height 47 mm

IP 620 NAW

SCHUKO® socket 16 A / 250 V ~
with inscription field 17 x 72 mm
 screw terminals for wires up to 2.5 mm²
 Height 47 mm

IP 621 NAW

Transparent cover with paper inlay
 for inscription field 17 x 72 mm
 (Spare part)
 paper inlay white

606 NA

SCHUKO® socket 16 A / 250 V ~
with safety lock
 screwless terminals for wires up to 2.5 mm²
 with 2 keys (24 different locks)

IP 620 WSL

SCHUKO® socket 16 A / 250 V ~
with safety lock
 screw terminals for wires up to 2.5 mm²
 with 2 keys (24 different locks)

IP 621 WSL

Key

1 piece

802 SL – 825 SL

When ordering, please indicate lock number!

Ref.-no.

SCHUKO® socket 16 A / 250 V ~
with 1-gang / 2-way switch 10 AX / 250 V ~
 screwless terminals for wires up to 2.5 mm²

**676 W**

Housing 70 x 140 x 47 mm, 2 inlets

Switch can be illuminated in OFF-position with lamp ref.-no. 90/95 (230 V), 96-.. (low voltage),
 or LED lamp ref.-no. 90-LED.. (230 V) or 961248 LED.. (low voltage).

SCHUKO® socket 16 A / 250 V ~
with push-button 10 A / 250 V ~ (without lens insert)
 screwless terminals for wires up to 2.5 mm²

**671 W**

Housing 70 x 140 x 47 mm, 2 inlets

Switch can be illuminated in OFF-position with lamp ref.-no. 90/95 (230 V), 96-.. (low voltage),
 or LED lamp ref.-no. 90-LED.. (230 V) or 961248 LED.. (low voltage).

SCHUKO® socket 16 A / 250 V ~
with 2-gang switch 10 AX / 250 V ~
 screwless terminals for wires up to 2.5 mm²

**675 W**

Housing 70 x 140 x 47 mm, 2 inlets

Switch can be illuminated in OFF-position with lamp ref.-no. 99 (230 V).

SCHUKO® socket 16 A / 250 V ~
with 1-gang / 2-way switch with indicator light 10 AX 250 V ~
 Neutral conductor required
 screwless terminals for wires up to 2.5 mm²

**676 KOW**

Housing 70 x 140 x 47 mm, 2 inlets

with red insert (ref.-no.: 33 NR) and plug-in neon lamp (ref.-no.: 90)





Ref.-no.

**SCHUKO® socket 16 A / 250 V ~
with 1-gang / 2-way switch 10 AX / 250 V ~**

screwless terminals for wires up to 2.5 mm²

rocker and hinged lid each with one inscription field 17 x 72 mm



676 NAW

Housing 70 x 140 x 47 mm, 2 inlets

Switch can be illuminated in OFF-position with lamp ref.-no. 90/95 (230 V), 96-.. (low voltage), or LED lamp ref.-no. 90-LED.. (230 V) or 961248 LED.. (low voltage).

**2-gang SCHUKO® socket 16 A / 250 V ~
wired**

screw terminals for wires up to 2.5 mm²

for vertical installation, housing 70 x 140 x 47 mm



622 W

for horizontal installation, housing 140 x 68 x 47 mm



622 WW

for vertical installation, with inscription field 17 x 72 mm



622 NAW

for horizontal installation, with inscription field 17 x 72 mm



622 NAWW

**3-gang SCHUKO® socket 16 A / 250 V ~
wired**

screw terminals for wires up to 2.5 mm²

for horizontal installation, housing 210 x 68 x 47 mm



623 W

for horizontal installation, with inscription field 17 x 72 mm



623 NAW



Transparent cover with paper inlay

for inscription field 17 x 72 mm

(Spare part)

paper inlay white

606 NA

Ref.-no.

Pilot light (without cap)screw terminals for wires up to 2.5 mm²

thread E10	(max. load 5 W)	IP	637-10 W
thread E14	(max. load 5 W)	IP	637-14 W

LED lamp

approx. 36 mm long

for pilot lights ref.-no.: 938-14 U, 837-14 W, 637-14 W, 637-14 A, 637-14 A WW

E14, 230 V ~, 0.4 W

white	E 14 LED W
green	E 14 LED GN
red	E 14 LED RT

average life approx. 30 000 h

Screw cap

for pilot lights ref.-no.: 637-10 W, 637-14 W

flat, for lamps up to max. length of 35 mm

transparent	37.02
red	37.05
green	37.06
yellow	37.07
blue	37.08

high, for lamps up to max. length of 54 mm

transparent	37
red	37 R
green	37 G
yellow	37 GE
blue	37 BL

Mounting box**for 1 device**

(Spare part)

2 inlets (closed)	IP	600
-------------------	----	------------

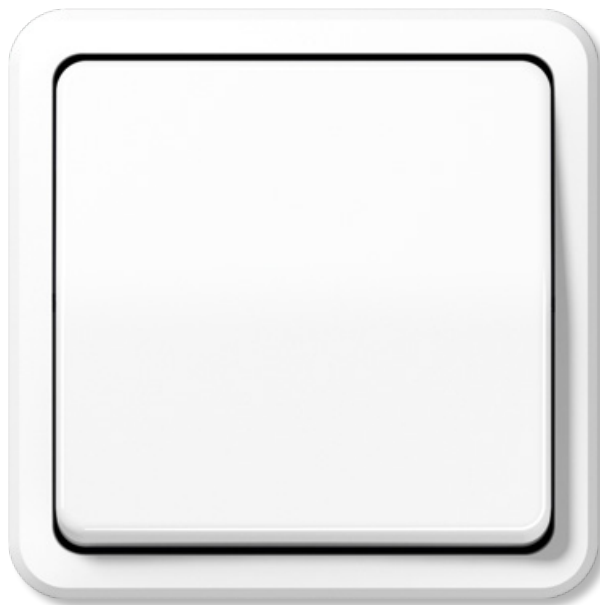
Accessories**for waterproof devices WG 600**

(Spare part)

connecting pipe	IP	192
inlet with thread + screw M 20 x 1.5		193-2
inlet with 1 opening	IP	190-353
closed inlet	IP	190-354
inlet for trunking 15 x 15 mm	IP	195

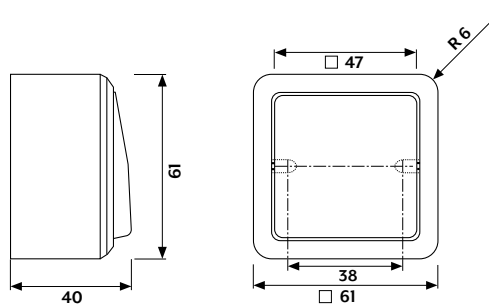


AP 600



WHITE

The AP 600 range of surface mounted units has been well thought out to make it ideal for new installations and retrofitting onto surfaces such as concrete, wood or facing brick work. The more demanding requirements are also met thanks to the wide range of functionality.



<u>Frame edge radius</u>	<u>Switch / socket dimensions (WxHxD)</u>	<u>Switch / socket combination (WxHxD)</u>
R 6	61 mm x 61 mm x 40 mm	61 mm x 116 mm x 47 mm

		Ref.-no.
1-gang switch 10 AX / 250 V ~		
screwless terminals for wires up to 2.5 mm ²		
ivory	1-pole, 2-way	606 A
white	1-pole, 2-way	606 A WW
ivory	intermediate	607 A
white	intermediate	607 A WW
Rocker with symbols I 0		
ivory	2-pole, 1-way	602 A
white	2-pole, 1-way	602 A WW
Switch can be illuminated in OFF-position with lamp ref.-no. 90/95 (230 V), 96-.. (low voltage), or LED lamp ref.-no. 90-LED.. (230 V) or 961248 LED.. (low voltage).		
1-gang switch 10 AX / 250 V ~		
with inscription field 9 x 40 mm		
screwless terminals for wires up to 2.5 mm ²		
ivory	1-pole, 2-way	606 ANA
white	1-pole, 2-way	606 ANA WW
Switch can be illuminated in OFF-position with lamp ref.-no. 90/95 (230 V), 96-.. (low voltage), or LED lamp ref.-no. 90-LED.. (230 V) or 961248 LED.. (low voltage).		
Transparent cover with paper inlay		
for inscription field 9 x 40 mm		
(Spare part)		
paper inlay white		60 ANA
1-gang switch 10 AX / 250 V ~		
with indicator light		
(neutral conductor required)		
with glow lamp ref.-no. 90		
screwless terminals for wires up to 2.5 mm ²		
ivory	1-pole, 2-way	606 KO5 A
white	1-pole, 2-way	606 KO5 A WW
1-gang switch 10 AX / 250 V ~		
with indicator light		
(neutral conductor required)		
with orange insert (ref.-no.: 33 O) and glow lamp (ref.-no.: 90)		
screwless terminals for wires up to 2.5 mm ²		
Rocker with symbols I 0		
ivory	2-pole, 1-way	602 KOA
white	2-pole, 1-way	602 KOA WW
1-gang push-button 10 A / 250 V ~ (without lens insert)		
Can be converted into pull cord push-button by means of pull cord insert ref.-no. 34.		
screwless terminals for wires up to 2.5 mm ²		
ivory	1-pole, 1-way (NO contact)	631 A
white	1-pole, 1-way (NO contact)	631 A WW
ivory	1-pole, 1-way (NO contact) with separate contacts for indicator light	634 A
white	1-pole, 1-way (NO contact) with separate contacts for indicator light	634 A WW
ivory	1-pole, 2-way with terminal for N conductor	633 A
white	1-pole, 2-way with terminal for N conductor	633 A WW
Illumination possible with lamp ref.-no. 90/95 (230 V), 96-.. (low voltage), or LED lamp ref.-no. 90-LED.. (230 V) or 961248 LED.. (low voltage).		





	Ref.-no.	
Insert with symbol, opaque		
for switches with indicator light and push-buttons ref.-no.: 602 KOA ..., 631 A ..., 634 A ..., 633 A ..		
ivory		
symbol light	33 L	
symbol bell	33 K	
symbol door	33 T	
white		
symbol light	33 L WW	
symbol bell	33 K WW	
symbol door	33 T WW	
Insert without symbol, translucent		
for switches with indicator light and push-buttons ref.-no.: 602 KOA ..., 631 A ..., 634 A ..., 633 A ..		
green	33 GN	
transparent	33 KLAR	
orange	33 O	
1-gang rocker with inscription field 9 x 40 mm		
(illumination possible, see insert)		
for 1-gang switches and push-buttons		
ivory	60 NA	
white	60 NA WW	
Transparent cover with paper inlay		
for inscription field 9 x 40 mm		
(Spare part)		
paper inlay white	60 ANA	
Pull cord switch 10 AX / 250 V ~		
for wall and ceiling installation		
with 50 mm pull cord		
screw terminals for wires up to 2.5 mm ²		
ivory	606 ZA	
white	606 ZA WW	
2-gang switch 10 AX / 250 V ~		
screwless terminals for wires up to 2.5 mm ²		
ivory	2 x 1-pole, 1-way	605 A
white	2 x 1-pole, 1-way	605 A WW
Switch can be illuminated in OFF-position with lamp ref.-no. 99 (230 V).		
2-gang blind switch 10 AX / 250 V ~		
mechanical interlocking to avoid switching of both rockers at the same time		
screwless terminals for wires up to 2.5 mm ²		
ivory	1-pole (1 motor)	609 VA
white	1-pole (1 motor)	609 VA WW

Ref.-no.

2-gang blind push-button 10 A / 250 V ~

mechanical interlocking to avoid switching of both rockers at the same time
screwless terminals for wires up to 2.5 mm²

ivory	1-pole (1 motor)	639 VA
white	1-pole (1 motor)	639 VA WW

SCHUKO® socket 16 A / 250 V ~

1-gang, 61 x 61 x 47 mm
screwless terminals for wires up to 2.5 mm²

ivory	620 A
white	620 A WW

SCHUKO® socket 16 A / 250 V ~

1-gang, 61 x 61 x 39 mm
screw terminals for wires up to 2.5 mm²

ivory	321 A
white	321 A WW

SCHUKO® socket 16 A / 250 V ~

2-gang, 61 x 102 x 47 mm
screwless terminals for wires up to 2.5 mm²

ivory	6020 A
white	6020 A WW

with enhanced contact protection (shutter)

ivory	6020 KIA
white	6020 KIA WW

SCHUKO® socket 16 A / 250 V ~

2-gang, 61 x 102 x 47 mm
screw terminals for wires up to 2.5 mm²

ivory	6022 A
-------	---------------





Ref.-no.

**SCHUKO® socket 16 A / 250 V ~
with 1-gang / 2-way switch 10 AX / 250 V ~**

dimensions: 61 x 116 x 47 mm

screw terminals (socket) and screwless terminals (switch) for wires up to 2.5 mm²

ivory **676 A**

white **676 A WW**

Switch can be illuminated in OFF-position with lamp ref.-no. 90/95 (230 V), 96-.. (low voltage), or LED lamp ref.-no. 90-LED.. (230 V) or 961248 LED.. (low voltage).

**SCHUKO® socket 16 A / 250 V ~
with 2-gang switch 10 AX / 250 V ~**

dimensions: 61 x 116 x 47 mm

ivory **675 A**

white **675 A WW**

**2-gang SCHUKO® socket 16 A / 250 V ~
with 1-gang / 2-way switch 10 AX / 250 V ~**

ivory **626 A**

white **626 A WW**

Socket, 2-pole without earth 16 A / 250 V ~

1-gang, 61 x 61 x 34 mm

ivory **611 A**

white **611 A WW**

	Ref.-no.
2-gang socket, 2-pole without earth 16 A / 250 V ~	
ivory	6010 A
white	6010 A WW
with enhanced contact protection (shutter)	
ivory	6010 KIA
white	6010 KIA WW

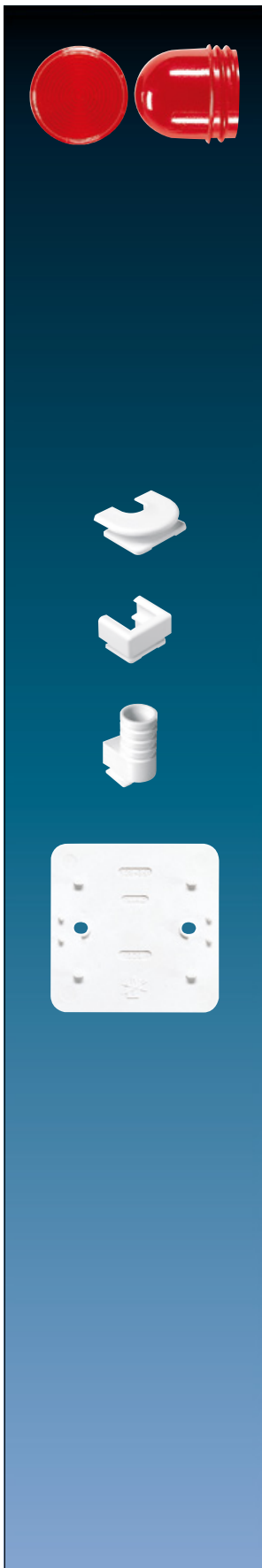
Socket, 2-pole without earth 16 A / 250 V ~ with 1-gang/2-way switch 10 AX / 250 V ~	
ivory	646 A
white	646 A WW

Socket, 2-pole without earth 16 A / 250 V ~ with 2-gang switch 10 AX / 250 V ~	
ivory	645 A
white	645 A WW

Pilot light (without cap)		
screw terminals for wires up to 2.5 mm ²		
max. 5 W, 230 V		
ivory	thread E10	637-10 A
white	thread E10	637-10 A WW
ivory	thread E14	637-14 A
white	thread E14	637-14 A WW

LED lamp	
approx. 36 mm long	
for pilot lights ref.-no.: 938-14 U, 837-14 W, 637-14 W, 637-14 A, 637-14 A WW	
E14, 230 V ~, 0.4 W	
white	E 14 LED W
green	E 14 LED GN
red	E 14 LED RT
average life approx. 30 000 h	





	Ref.-no.
Screw cap	
for pilot lights ref.-no.: 637-10 A .., 637-14 A ..	
flat, for lamps up to max. length of 35 mm	
transparent	37.02
red	37.05
green	37.06
yellow	37.07
blue	37.08
high, for lamps up to max. length of 54 mm	
transparent	37
red	37 R
green	37 G
yellow	37 GE
blue	37 BL
Inlets for cables, pipes and trunkings in surface caps	
for cable and mini trunking	
ivory	11
white	11 WW
for trunking 15 x 15 mm	
ivory	12
white	12 WW
for pipes with outside Ø 16 mm	
ivory	13
white	13 WW
Ground plates for AP 600	
non-flammable	
for surface mounting of devices on flammable material	
for single devices	
ivory	328
white	328 WW
for 2-gang socket (e.g. 6020 A ..)	
ivory	328-622
white	328-622 WW
for 2-gang combinations switch / socket (e.g. 676 A ..)	
ivory	328-676
white	328-676 WW
for 3-gang combinations 626 A ..	
ivory	328-626

Ref.-no.

1-gang switch 1 A 24 V AC/DC

extra flat version – dimensions: 61 x 61 x 16.5 mm

screw terminals for wires up to 2.5 mm²

ivory	1-pole, 2-way	306 A-24
white	1-pole, 2-way	306 A-24 WW

1-gang push-button 1 A 24 V AC/DC (without lens insert)

extra flat version – dimensions: 61 x 61 x 16.5 mm

screw terminals for wires up to 2.5 mm²

ivory	1-pole, 1-way (NO contact)	331 A-24
white	1-pole, 1-way (NO contact)	331 A-24 WW
ivory	1-pole, 2-way	333 A-24
white	1-pole, 2-way	333 A-24 WW

Can be converted into pull cord push-button by means of pull cord insert ref.-no. 34.

Pull cord insert

red	34
-----	-----------

with 50 mm pull cord

Insert with symbol, opaque

for push-buttons ref.-no.: 331 A-24 .., 333 A-24 ..

ivory

symbol light	33 L
symbol bell	33 K
symbol door	33 T

white

symbol light	33 L WW
symbol bell	33 K WW
symbol door	33 T WW

Insert without symbol, translucent

for push-buttons ref.-no.: 331 A-24 .., 333 A-24 ..

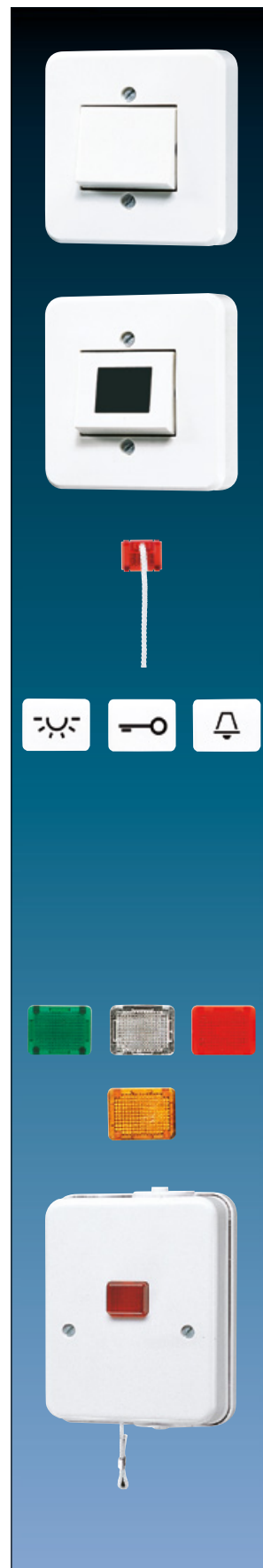
green	33 GN
transparent	33 KLAR
orange	33 O
red	33 NR

Pull cord switch 16 A / 250 V ~

2-pole, 1-way, with indicator light

103 x 83 x 33.5 mm

ivory	IP	102 KOZ W
white	IP	102 KOZ WW



KNX system



SMART PANEL 8

Smart means communicating with each other. Sensors and actuators ensure intelligent control in a KNX system. We offer the right KNX solution for almost every function in the building. Lighting, shading, heating and air conditioning, security and multimedia: our KNX system covers all these areas and ensures smart automation.



PUSH-BUTTON F 10



in A 550 in white

PUSH-BUTTON SENSORS



in LS 990 in aluminium

KNX ACTUATORS



SMART VISU SERVER







KNX CATALOGUE





All at a glance: From the easily operable control element to the complex installation, the new edition of the KNX catalogue offers an overview of our entire product range and illustrates the connections of our KNX solutions. From the basic configuration to the high end comfort solution, everything is possible.

The KNX catalogue is available to download at jung.de/KNX-Catalogue

KNX
F 50
AS and A ranges

	Ref.-no.
	<p>KNX standard push-button module including transparent cover ref.-no.: A 50 NA</p> <p>Product characteristics</p> <ul style="list-style-type: none"> • KNX medium: TP 256 • Push-button functions switching, dimming, blind control, value transmitter, scene recall, etc. • To be completed with cover kit • Inscription field • One red status LED for a pair of buttons • One operation LED as an orientation light and to indicate the programming status – red, green or blue adjustable • Energy saving mode • Integrated bus coupling unit • Transparent cover kit (included) for temporary site use without design covers <p>Standard, 1-gang ETS product family: Push-button Product type: 1-gang push-button A 5071 TSM</p>
	<p>Standard, 2-gang ETS product family: Push-button Product type: 2-gang push-button A 5072 TSM</p>
	<p>Standard, 3-gang ETS product family: Push-button Product type: 3-gang push-button A 5073 TSM</p>
	<p>Standard, 4-gang ETS product family: Push-button Product type: 4-gang push-button A 5074 TSM</p>

KNX
F 50
AS and A ranges

	Ref.-no.
	<p>KNX universal push-button module including transparent cover ref.-no.: A 50 NA</p> <p>Product characteristics</p> <ul style="list-style-type: none"> • KNX medium: TP 256 • Push-button functions switching, dimming, blind control, value transmitter, scene recall, etc. • One or two functions per button • To be completed with cover kit • Inscription field can be illuminated • One status LED per button, red, green or blue, adjustable • One operation LED as an orientation light and to indicate the programming status – red, green or blue adjustable • Brightness of status LED, operation LED and inscription field adjustable, can be changed during operation, e.g. during night times • Measurement of room temperature • Extension unit for room temperature controller • Disabling function: Disabling or change function mode of single or all button functions • Alarm function, optional acknowledge by pressing any button • Energy saving mode • Integrated bus coupling unit • Connection for a push-button extension module, 1-4 gang • Transparent cover kit (included) for temporary site use without design covers <p>Universal, 1-gang ETS product family: Push-button Product type: 1-gang push-button A 5091 TSM</p>
	<p>Universal, 2-gang ETS product family: Push-button Product type: 2-gang push-button A 5092 TSM</p>
	<p>Universal, 3-gang ETS product family: Push-button Product type: 3-gang push-button A 5093 TSM</p>
	<p>Universal, 4-gang ETS product family: Push-button Product type: 4-gang push-button A 5094 TSM</p>

KNX
F 50
AS and A ranges

Ref.-no.



KNX room temperature controller module 2-gang
including transparent cover and inlay with symbols
for cover kit 2-gang, ref.-no.: A 502 TSA ..

A 5178 TSM

Product characteristics

All buttons can be assigned with push-button sensor functions or functions for controller operation.

- KNX medium: TP 256
- Measurement of room temperature
- Room temperature control with setpoint value specification
- Extension unit for room temperature controller
- Push-button functions switching, dimming, blind control, value transmitter, scene recall, etc.
- One or two functions per button
- Completion with cover kit 2-gang
- Inscription field can be illuminated
- Two red status LEDs per button – red, green or blue adjustable
- One operation LED as an orientation light and to indicate the programming status – red, green or blue adjustable
- Brightness of status LEDs, operation LED and labelling field adjustable; switchable while in operation, e.g. during the night
- Disabling function: Disabling or change function mode of single or all button functions
- Alarm function, optional acknowledge by pressing any button
- Energy saving mode (for operation without controller function)
- Integrated bus coupling unit
- Connection for a push-button extension module, for extension with up to eight additional buttons

Push-button extension module

including transparent cover ref.-no.: A 50 NA
for the extension of the Universal push-button module (ref.-no.: A 509.. TSM) and room temperature controller module (ref.-no.: A 5178 TSM) with up to 4 additional push-buttons

- 1-gang **A 5091 TSEM**
- 2-gang **A 5092 TSEM**
- 3-gang **A 5093 TSEM**
- 4-gang **A 5094 TSEM**

- Operation of loads, e.g. light on/off, dimming, blinds up/down, brightness values, temperatures, calling up and saving light scenes, etc.
- Measurement of room temperature
- Extension unit for room temperature controller

Technical data

Cable length: max. 30 m
Cable type: J-Y(St)Y 2 x 2 x 0.8 mm



KNX
F 50
AS and A ranges

Ref.-no.

KNX room controller display compact module
Product characteristics

All buttons can be assigned with push-button sensor functions or functions for controller operation.

- KNX medium: TP 256
- Backlit LC display
- One or two functions per button
- To be completed with cover kit
- Eight status LEDs – red, green or blue
- Brightness of status LEDs and LCD adjustable
- Integrated bus coupling unit
- Connection of extension modules
- Integrated room temperature sensor
- External sensor (ref.-no.: FF 7.8) can be connected
- Room temperature control with setpoint value specification
- Two internal independent controllers for two independent areas – in connection with extension modules
- Display of room or set temperature (°C or °F)
- Display of outdoor temperature – with external sensor, e.g. weather station
- Display of time, in conjunction with KNX time encoder (in menu level)
- Push-button function or rocker function
- Disabling function: Disabling or change function mode of single or all button functions
- Alarm function, optional acknowledge by pressing any button



KNX room controller display compact module 2-gang

for cover kit 2-gang, ref.-no.: A 502 TSA ..
can be extended by means of a room controller extension module, ref.-no.: A 5178 TSEM
can be extended by means of a push-button extension module, ref.-no.: A 509.. TSEM

A 5192 KRM TS D

Technical data

Recommended mounting height: 1.5 m



KNX room controller display compact module 4-gang

for cover kit 4-gang, ref.-no.: A 504 TSA ..
can be extended by means of a room controller extension module, ref.-no.: A 5178 TSEM
can be extended by means of a push-button extension module, ref.-no.: A 509.. TSEM

A 5194 KRM TS D

Technical data

Recommended mounting height: 1.5 m



Room controller extension module 2-gang





for cover kit 2-gang, ref.-no.: A 502 TSA ..
for the extension of a room controller module (ref.-no.: A 5192 KRM TS D, A 5194 KRM TS D) with a second room temperature control unit

A 5178 TSEM



Technical data

Cable length: max. 30 m
Cable type: J-Y(St)Y 2 x 2 x 0.8 mm

KNX
F 50
AS and A ranges

	Ref.-no.
	Cover kits for AS and A ranges
	Cover kit 1-gang to clip on F 50 push-button modules 1-gang of the AS/A range ref.-no.: A 5071 TSM, A 5091 TSM, A 5091 TSEM, A 5071 RF TSM, A 5212 TSM, FM A 5001 M
	Thermoplastic (breakproof) high-gloss
	ivory A 501 TSA
	white A 501 TSA WW
	black A 501 TSA SW
	Thermoplastic (breakproof) lacquered
	aluminium A 501 TSA AL
	champagne A 501 TSA CH
	mocha A 501 TSA MO
	matt lacquered
	matt snow white A 501 TSA WWM
matt graphite black A 501 TSA SWM	
matt anthracite A 501 TSA ANM	
	Cover kit 2-gang to clip on F 50 push-button modules 2-gang of the AS/A range ref.-no.: A 5072 TSM, A 5092 TSM, A 5092 TSEM, A 5178 TSM, A 5192 KRM TS D, A 5178 TSEM, A 5072 RF TSM, A 5224 TSM, FM A 5002 M
	Thermoplastic (breakproof) high-gloss
	ivory A 502 TSA
	white A 502 TSA WW
	black A 502 TSA SW
	Thermoplastic (breakproof) lacquered
	aluminium A 502 TSA AL
	champagne A 502 TSA CH
	mocha A 502 TSA MO
	matt lacquered
	matt snow white A 502 TSA WWM
	matt graphite black A 502 TSA SWM
matt anthracite A 502 TSA ANM	
	Cover kit 3-gang to clip on F 50 push-button modules 3-gang of the AS/A range ref.-no.: A 5073 TSM, A 5093 TSM, A 5093 TSEM, A 5073 RF TSM, A 5236 TSM, FM A 5003 M, SI TM A 5073, SI TM A 5093
	Thermoplastic (breakproof) high-gloss
	ivory A 503 TSA
	white A 503 TSA WW
	black A 503 TSA SW
	Thermoplastic (breakproof) lacquered
	aluminium A 503 TSA AL
	champagne A 503 TSA CH
	mocha A 503 TSA MO
	matt lacquered
	matt snow white A 503 TSA WWM
	matt graphite black A 503 TSA SWM
matt anthracite A 503 TSA ANM	
	Cover kit 4-gang to clip on F 50 push-button modules 4-gang of the AS/A range ref.-no.: A 5074 TSM, A 5094 TSM, A 5094 TSEM, A 5194 KRM TS D, A 5074 RF TSM, A 5248 TSM, FM A 5004 M
	Thermoplastic (breakproof) high-gloss
	ivory A 504 TSA
	white A 504 TSA WW
	black A 504 TSA SW
	Thermoplastic (breakproof) lacquered
	aluminium A 504 TSA AL
	champagne A 504 TSA CH
	mocha A 504 TSA MO
	matt lacquered
	matt snow white A 504 TSA WWM
	matt graphite black A 504 TSA SWM
matt anthracite A 504 TSA ANM	

KNX
F 50
AS and A ranges

	Ref.-no.
	Transparent cover with paper inlay (Spare part) to clip on F 50 push-button modules of the AS/A range ref.-no.: A 507.. TSM, A 509.. TSM, A 509.. TSEM, A 5178 TSM, A 51.. KRM TS D, A 5178 TSEM, A 507.. RF TSM, A 52.. TSM, FM A 50.. M Also included in delivery of modules. inscription field 25 x 52.5 mm paper inlay pearly A 50 NA
	Neutral cover to clip on F 50 push-button modules of the AS/A range ref.-no.: A 507.. TSM, A 509.. TSM, A 509.. TSEM, A 5178 TSM, A 51.. KRM TS D, A 5178 TSEM, A 507.. RF TSM, A 52.. TSM, FM A 50.. M dimensions: 25 x 55 mm
	Thermoplastic (breakproof) high-gloss
	ivory A 50 NA W
	white A 50 NA WW
	black A 50 NA SW
	Thermoplastic (breakproof) lacquered
	aluminium A 50 NA AL
	champagne A 50 NA CH
	mocha A 50 NA MO
	matt lacquered
	matt snow white A 50 NA WWM
matt graphite black A 50 NA SWM	
matt anthracite A 50 NA ANM	
	Professional inscription see www.jung.de/gt
	Cover, suitable for backlighting to clip on F 50 push-button modules of the AS/A range ref.-no.: A 507.. TSM, A 509.. TSM, A 509.. TSEM, A 5178 TSM, A 51.. KRM TS D, A 5178 TSEM, A 507.. RF TSM, A 52.. TSM, FM A 50.. M dimensions: 25 x 55 mm The cover is lacquered on the back and can be lasered individually using the Graphic Tool.
	Order only via Graphic Tool: www.jung.de/gt
	Thermoplastic (breakproof) high-gloss
	black A 50 NA TX SW-L

KNX
F 50
CD range

Ref.-no.

KNX standard push-button module

including transparent cover ref.-no.: CD 50 NA

Product characteristics

- KNX medium: TP 256
- Push-button functions switching, dimming, blind control, value transmitter, scene recall, etc.
- To be completed with cover kit
- Inscription field
- One red status LED for a pair of buttons
- One operation LED as an orientation light and to indicate the programming status – red, green or blue adjustable
- Energy saving mode
- Integrated bus coupling unit
- Transparent cover kit (included) for temporary site use without design covers

Standard, 1-gang

ETS product family: Push-button
Product type: 1-gang push-button

CD 5071 TSM



Standard, 2-gang

ETS product family: Push-button
Product type: 2-gang push-button

CD 5072 TSM



Standard, 3-gang

ETS product family: Push-button
Product type: 3-gang push-button

CD 5073 TSM



Standard, 4-gang

ETS product family: Push-button
Product type: 4-gang push-button

CD 5074 TSM



KNX
F 50
CD range

Ref.-no.

KNX universal push-button module

including transparent cover ref.-no.: CD 50 NA

Product characteristics

- KNX medium: TP 256
- Push-button functions switching, dimming, blind control, value transmitter, scene recall, etc.
- One or two functions per button
- To be completed with cover kit
- Inscription field can be illuminated
- One status LED per button, red, green or blue, adjustable
- One operation LED as an orientation light and to indicate the programming status – red, green or blue adjustable
- Brightness of status LED, operation LED and inscription field adjustable, can be changed during operation, e.g. during night times
- Measurement of room temperature
- Extension unit for room temperature controller
- Disabling function: Disabling or change function mode of single or all button functions
- Alarm function, optional acknowledge by pressing any button
- Energy saving mode
- Integrated bus coupling unit
- Connection for a push-button extension module, 1-4 gang
- Transparent cover kit (included) for temporary site use without design covers

Universal, 1-gang

ETS product family: Push-button
Product type: 1-gang push-button

CD 5091 TSM



Universal, 2-gang

ETS product family: Push-button
Product type: 2-gang push-button

CD 5092 TSM



Universal, 3-gang

ETS product family: Push-button
Product type: 3-gang push-button

CD 5093 TSM



Universal, 4-gang

ETS product family: Push-button
Product type: 4-gang push-button

CD 5094 TSM



Ref.-no.



KNX room temperature controller module 2-gang
including transparent cover and inlay with symbols
for cover kit 2-gang, ref.-no.: CD 502 TSA ..

CD 5178 TSM

Product characteristics

All buttons can be assigned with push-button sensor functions or functions for controller operation.

- KNX medium: TP 256
- Measurement of room temperature
- Room temperature control with setpoint value specification
- Extension unit for room temperature controller
- Push-button functions switching, dimming, blind control, value transmitter, scene recall, etc.
- One or two functions per button
- Completion with cover kit 2-gang
- Inscription field can be illuminated
- Two red status LEDs per button – red, green or blue adjustable
- One operation LED as an orientation light and to indicate the programming status – red, green or blue adjustable
- Brightness of status LEDs, operation LED and labelling field adjustable; switchable while in operation, e.g. during the night
- Disabling function: Disabling or change function mode of single or all button functions
- Alarm function, optional acknowledge by pressing any button
- Energy saving mode (for operation without controller function)
- Integrated bus coupling unit
- Connection for a push-button extension module, for extension with up to eight additional buttons

Push-button extension module

including transparent cover ref.-no.: CD 50 NA
for the extension of the Universal push-button module (ref.-no.: CD 509.. TSM) and room temperature controller module (ref.-no.: CD 5178 TSM) with up to 4 additional push-buttons

- 1-gang **CD 5091 TSEM**
- 2-gang **CD 5092 TSEM**
- 3-gang **CD 5093 TSEM**
- 4-gang **CD 5094 TSEM**

- Operation of loads, e.g. light on/off, dimming, blinds up/down, brightness values, temperatures, calling up and saving light scenes, etc.
- Measurement of room temperature
- Extension unit for room temperature controller

Technical data

Cable length: max. 30 m
Cable type: J-Y(St)Y 2 x 2 x 0.8 mm



Ref.-no.

KNX room controller display compact module
Product characteristics

All buttons can be assigned with push-button sensor functions or functions for controller operation.

- KNX medium: TP 256
- Backlit LC display
- One or two functions per button
- To be completed with cover kit
- Eight status LEDs – red, green or blue
- Brightness of status LEDs and LCD adjustable
- Integrated bus coupling unit
- Connection of extension modules
- Integrated room temperature sensor
- External sensor (ref.-no.: FF 7.8) can be connected
- Room temperature control with setpoint value specification
- Two internal independent controllers for two independent areas – in connection with extension modules
- Display of room or set temperature (°C or °F)
- Display of outdoor temperature – with external sensor, e.g. weather station
- Display of time, in conjunction with KNX time encoder (in menu level)
- Push-button function or rocker function
- Disabling function: Disabling or change function mode of single or all button functions
- Alarm function, optional acknowledge by pressing any button

KNX room controller display compact module 2-gang

for cover kit 2-gang, ref.-no.: CD 502 TSA ..
can be extended by means of a room controller extension module, ref.-no.: CD 5178 TSEM
can be extended by means of a push-button extension module, ref.-no.: CD 509.. TSEM

CD 5192 KRM TS D

- Function symbols can be shown

Technical data

Recommended mounting height: 1.5 m



KNX room controller display compact module 4-gang

for cover kit 4-gang, ref.-no.: CD 504 TSA ..
can be extended by means of a room controller extension module, ref.-no.: CD 5178 TSEM
can be extended by means of a push-button extension module, ref.-no.: CD 509.. TSEM

CD 5194 KRM TS D

- Function symbols can be shown

Technical data

Recommended mounting height: 1.5 m



Room controller extension module 2-gang

for cover kit 2-gang, ref.-no.: CD 502 TSA ..
for the extension of a room controller module (ref.-no.: CD 5192 KRM TS D, CD 5194 KRM TS D) with a second room temperature control unit
CD 5178 TSEM

Technical data

Cable length: max. 30 m
Cable type: J-Y(St)Y 2 x 2 x 0.8 mm



KNX
F 50
CD range

	Ref.-no.																																								
	<p>Cover kits for CD range</p> <p>Cover kit 1-gang to clip on F 50 push-button modules 1-gang of the CD range ref.-no.: CD 5071 TSM, CD 5091 TSM, CD 5091 TSEM, CD 5071 RF TSM, CD 5212 TSM, FM CD 5001 M</p> <p>Thermoplastic (breakproof) high-gloss</p> <table> <tr><td>ivory</td><td>CD 501 TSA</td></tr> <tr><td>white</td><td>CD 501 TSA WW</td></tr> <tr><td>grey</td><td>CD 501 TSA GR</td></tr> <tr><td>light grey</td><td>CD 501 TSA LG</td></tr> <tr><td>black</td><td>CD 501 TSA SW</td></tr> </table> <p>Cover kit 2-gang to clip on F 50 push-button modules 2-gang of the CD range ref.-no.: CD 5072 TSM, CD 5092 TSM, CD 5092 TSEM, CD 5178 TSM, CD 5192 KRM TS D, CD 5178 TSEM, CD 5072 RF TSM, CD 5224 TSM, FM CD 5002 M</p> <p>Thermoplastic (breakproof) high-gloss</p> <table> <tr><td>ivory</td><td>CD 502 TSA</td></tr> <tr><td>white</td><td>CD 502 TSA WW</td></tr> <tr><td>grey</td><td>CD 502 TSA GR</td></tr> <tr><td>light grey</td><td>CD 502 TSA LG</td></tr> <tr><td>black</td><td>CD 502 TSA SW</td></tr> </table> <p>Cover kit 3-gang to clip on F 50 push-button modules 3-gang of the CD range ref.-no.: CD 5073 TSM, CD 5093 TSM, CD 5093 TSEM, CD 5073 RF TSM, CD 5236 TSM, FM CD 5003 M, SI TM CD 5073, SI TM CD 5093</p> <p>Thermoplastic (breakproof) high-gloss</p> <table> <tr><td>ivory</td><td>CD 503 TSA</td></tr> <tr><td>white</td><td>CD 503 TSA WW</td></tr> <tr><td>grey</td><td>CD 503 TSA GR</td></tr> <tr><td>light grey</td><td>CD 503 TSA LG</td></tr> <tr><td>black</td><td>CD 503 TSA SW</td></tr> </table> <p>Cover kit 4-gang to clip on F 50 push-button modules 4-gang of the CD range ref.-no.: CD 5074 TSM, CD 5094 TSM, CD 5094 TSEM, CD 5194 KRM TS D, CD 5074 RF TSM, CD 5248 TSM, FM CD 5004 M</p> <p>Thermoplastic (breakproof) high-gloss</p> <table> <tr><td>ivory</td><td>CD 504 TSA</td></tr> <tr><td>white</td><td>CD 504 TSA WW</td></tr> <tr><td>grey</td><td>CD 504 TSA GR</td></tr> <tr><td>light grey</td><td>CD 504 TSA LG</td></tr> <tr><td>black</td><td>CD 504 TSA SW</td></tr> </table>	ivory	CD 501 TSA	white	CD 501 TSA WW	grey	CD 501 TSA GR	light grey	CD 501 TSA LG	black	CD 501 TSA SW	ivory	CD 502 TSA	white	CD 502 TSA WW	grey	CD 502 TSA GR	light grey	CD 502 TSA LG	black	CD 502 TSA SW	ivory	CD 503 TSA	white	CD 503 TSA WW	grey	CD 503 TSA GR	light grey	CD 503 TSA LG	black	CD 503 TSA SW	ivory	CD 504 TSA	white	CD 504 TSA WW	grey	CD 504 TSA GR	light grey	CD 504 TSA LG	black	CD 504 TSA SW
	ivory	CD 501 TSA																																							
	white	CD 501 TSA WW																																							
	grey	CD 501 TSA GR																																							
light grey	CD 501 TSA LG																																								
black	CD 501 TSA SW																																								
ivory	CD 502 TSA																																								
white	CD 502 TSA WW																																								
grey	CD 502 TSA GR																																								
light grey	CD 502 TSA LG																																								
black	CD 502 TSA SW																																								
ivory	CD 503 TSA																																								
white	CD 503 TSA WW																																								
grey	CD 503 TSA GR																																								
light grey	CD 503 TSA LG																																								
black	CD 503 TSA SW																																								
ivory	CD 504 TSA																																								
white	CD 504 TSA WW																																								
grey	CD 504 TSA GR																																								
light grey	CD 504 TSA LG																																								
black	CD 504 TSA SW																																								

KNX
F 50
CD range

	Ref.-no.										
	<p>Transparent cover with paper inlay (Spare part) to clip on F 50 push-button modules of the CD range ref.-no.: CD 507.. TSM, CD 509.. TSM, CD 509.. TSEM, CD 5178 TSM, CD 51.. KRM TS D, CD 5178 TSEM, CD 507.. RF TSM, CD 52.. TSM, FM CD 50.. M Also included in delivery of modules. inscription field 33 x 64 mm paper inlay pearly CD 50 NA</p> <p>Neutral cover to clip on F 50 push-button modules of the CD range ref.-no.: CD 507.. TSM, CD 509.. TSM, CD 509.. TSEM, CD 5178 TSM, CD 51.. KRM TS D, CD 5178 TSEM, CD 507.. RF TSM, CD 52.. TSM, FM CD 50.. M dimensions: 33 x 68 mm</p> <p>Thermoplastic (breakproof) high-gloss</p> <table> <tr><td>ivory</td><td>CD 50 NA W</td></tr> <tr><td>white</td><td>CD 50 NA WW</td></tr> <tr><td>grey</td><td>CD 50 NA GR</td></tr> <tr><td>light grey</td><td>CD 50 NA LG</td></tr> <tr><td>black</td><td>CD 50 NA SW</td></tr> </table> <p>Professional inscription see www.jung.de/gt</p> <p>Cover, suitable for backlighting to clip on F 50 push-button modules of the CD range ref.-no.: CD 507.. TSM, CD 509.. TSM, CD 509.. TSEM, CD 5178 TSM, CD 51.. KRM TS D, CD 5178 TSEM, CD 507.. RF TSM, CD 52.. TSM, FM CD 50.. M dimensions: 33 x 68 mm The cover is lacquered on the back and can be lasered individually using the Graphic Tool. Order only via Graphic Tool: www.jung.de/gt Thermoplastic (breakproof) high-gloss black CD 50 NA TX SW-L</p>	ivory	CD 50 NA W	white	CD 50 NA WW	grey	CD 50 NA GR	light grey	CD 50 NA LG	black	CD 50 NA SW
	ivory	CD 50 NA W									
	white	CD 50 NA WW									
	grey	CD 50 NA GR									
light grey	CD 50 NA LG										
black	CD 50 NA SW										

KNX
F 50
LS range

Ref.-no.

KNX standard push-button module
including transparent cover ref.-no.: LS 50 NA

Product characteristics

- KNX medium: TP 256
- Push-button functions switching, dimming, blind control, value transmitter, scene recall, etc.
- To be completed with cover kit
- Inscription field
- One red status LED for a pair of buttons
- One operation LED as an orientation light and to indicate the programming status – red, green or blue adjustable
- Energy saving mode
- Integrated bus coupling unit
- Transparent cover kit (included) for temporary site use without design covers

Standard, 1-gang

ETS product family: Push-button
Product type: 1-gang push-button

LS 5071 TSM



Standard, 2-gang

ETS product family: Push-button
Product type: 2-gang push-button

LS 5072 TSM



Standard, 3-gang

ETS product family: Push-button
Product type: 3-gang push-button

LS 5073 TSM



Standard, 4-gang

ETS product family: Push-button
Product type: 4-gang push-button

LS 5074 TSM



KNX
F 50
LS range

Ref.-no.

KNX universal push-button module
including transparent cover ref.-no.: LS 50 NA

Product characteristics

- KNX medium: TP 256
- Push-button functions switching, dimming, blind control, value transmitter, scene recall, etc.
- One or two functions per button
- To be completed with cover kit
- Inscription field can be illuminated
- One status LED per button, red, green or blue, adjustable
- One operation LED as an orientation light and to indicate the programming status – red, green or blue adjustable
- Brightness of status LED, operation LED and inscription field adjustable, can be changed during operation, e.g. during night times
- Measurement of room temperature
- Extension unit for room temperature controller
- Disabling function: Disabling or change function mode of single or all button functions
- Alarm function, optional acknowledge by pressing any button
- Energy saving mode
- Integrated bus coupling unit
- Connection for a push-button extension module, 1-4 gang
- Transparent cover kit (included) for temporary site use without design covers

Universal, 1-gang

ETS product family: Push-button
Product type: 1-gang push-button

LS 5091 TSM



Universal, 2-gang

ETS product family: Push-button
Product type: 2-gang push-button

LS 5092 TSM



Universal, 3-gang

ETS product family: Push-button
Product type: 3-gang push-button

LS 5093 TSM



Universal, 4-gang

ETS product family: Push-button
Product type: 4-gang push-button

LS 5094 TSM



Ref.-no.



KNX room temperature controller module 2-gang
including transparent cover and inlay with symbols
for cover kit 2-gang, ref.-no.: ..502 TSA .. in the LS range
LS 5178 TSM

Product characteristics

All buttons can be assigned with push-button sensor functions or functions for controller operation.

- KNX medium: TP 256
- Measurement of room temperature
- Room temperature control with setpoint value specification
- Extension unit for room temperature controller
- Push-button functions switching, dimming, blind control, value transmitter, scene recall, etc.
- One or two functions per button
- Completion with cover kit 2-gang
- Inscription field can be illuminated
- Two red status LEDs per button – red, green or blue adjustable
- One operation LED as an orientation light and to indicate the programming status – red, green or blue adjustable
- Brightness of status LEDs, operation LED and labelling field adjustable; switchable while in operation, e.g. during the night
- Disabling function: Disabling or change function mode of single or all button functions
- Alarm function, optional acknowledge by pressing any button
- Energy saving mode (for operation without controller function)
- Integrated bus coupling unit
- Connection for a push-button extension module, for extension with up to eight additional buttons

Push-button extension module

including transparent cover ref.-no.: LS 50 NA
for the extension of the Universal push-button module (ref.-no.: LS 509.. TSM) and room temperature controller module (ref.-no.: LS 5178 TSM)
with up to 4 additional push-buttons

- 1-gang **LS 5091 TSEM**
- 2-gang **LS 5092 TSEM**
- 3-gang **LS 5093 TSEM**
- 4-gang **LS 5094 TSEM**

- Operation of loads, e.g. light on/off, dimming, blinds up/down, brightness values, temperatures, calling up and saving light scenes, etc.
- Measurement of room temperature
- Extension unit for room temperature controller

Technical data

Cable length: max. 30 m
Cable type: J-Y(St)Y 2 x 2 x 0.8 mm



Ref.-no.

KNX room controller display compact module
Product characteristics

All buttons can be assigned with push-button sensor functions or functions for controller operation.

- KNX medium: TP 256
- Backlit LC display
- One or two functions per button
- To be completed with cover kit
- Eight status LEDs – red, green or blue
- Brightness of status LEDs and LCD adjustable
- Integrated bus coupling unit
- Connection of extension modules
- Integrated room temperature sensor
- External sensor (ref.-no.: FF 7.8) can be connected
- Room temperature control with setpoint value specification
- Two internal independent controllers for two independent areas – in connection with extension modules
- Display of room or set temperature (°C or °F)
- Display of outdoor temperature – with external sensor, e.g. weather station
- Display of time, in conjunction with KNX time encoder (in menu level)
- Push-button function or rocker function
- Disabling function: Disabling or change function mode of single or all button functions
- Alarm function, optional acknowledge by pressing any button



KNX room controller display compact module 2-gang
for cover kit 2-gang, ref.-no.: ..502 TSA .. in the LS range
can be extended by means of a room controller extension module, ref.-no: LS 5178 TSEM
can be extended by means of a push-button extension module, ref.-no.: LS 509.. TSEM

LS 5192 KRM TS D

- Function symbols can be shown

Technical data

Recommended mounting height: 1.5 m



KNX room controller display compact module 4-gang
for cover kit 4-gang, ref.-no.: ..504 TSA .. in the LS range
can be extended by means of a room controller extension module, ref.-no: LS 5178 TSEM
can be extended by means of a push-button extension module, ref.-no.: LS 509.. TSEM

LS 5194 KRM TS D

- Function symbols can be shown

Technical data

Recommended mounting height: 1.5 m





Room controller extension module 2-gang
for cover kit 2-gang, ref.-no.: ..502 TSA .. in the LS range
for the extension of a room controller module (ref.-no.: LS 5192 KRM TS D, LS 5194 KRM TS D) with a second room temperature control unit

LS 5178 TSEM

Technical data

Cable length: max. 30 m
Cable type: J-Y(St)Y 2 x 2 x 0.8 mm

	Ref.-no.
	<p>Cover kits for LS range</p> <p>Cover kit 1-gang to clip on F 50 push-button modules 1-gang of the LS range ref.-no.: LS 5071 TSM, LS 5091 TSM, LS 5091 TSEM, LS 5071 RF TSM, LS 5212 TSM, FM LS 5001 M</p> <p>Thermoplastic (breakproof) high-gloss ivory ☑ LS 501 TSA white ☑ LS 501 TSA WW light grey ☑ LS 501 TSA LG black ☑ LS 501 TSA SW</p> <p>matt lacquered matt snow white LS 501 TSA WWM matt graphite black LS 501 TSA SWM</p> <p>metal versions aluminium ☑ AL 2501 TSA stainless steel ☑ ES 2501 TSA anthracite (aluminium lacquered) AL 2501 TSA AN dark (aluminium lacquered) AL 2501 TSA D chrome GCR 2501 TSA gold-coloured GO 2501 TSA gold-plated LS 501 TSA GGO classic brass ☑ ME 2501 TSA C antique brass ME 2501 TSA AT</p>
	<p>Cover kit 2-gang to clip on F 50 push-button modules 2-gang of the LS range ref.-no.: LS 5072 TSM, LS 5092 TSM, LS 5092 TSEM, LS 5178 TSM, LS 5192 KRM TS D, LS 5178 TSEM, LS 5072 RF TSM, LS 5224 TSM, FM LS 5002 M</p> <p>Thermoplastic (breakproof) high-gloss ivory ☑ LS 502 TSA white ☑ LS 502 TSA WW light grey ☑ LS 502 TSA LG black ☑ LS 502 TSA SW</p> <p>matt lacquered matt snow white LS 502 TSA WWM matt graphite black LS 502 TSA SWM</p> <p>metal versions aluminium ☑ AL 2502 TSA stainless steel ☑ ES 2502 TSA anthracite (aluminium lacquered) AL 2502 TSA AN dark (aluminium lacquered) AL 2502 TSA D chrome GCR 2502 TSA gold-coloured GO 2502 TSA gold-plated LS 502 TSA GGO classic brass ☑ ME 2502 TSA C antique brass ME 2502 TSA AT</p>

	Ref.-no.
	<p>Cover kit 3-gang to clip on F 50 push-button modules 3-gang of the LS range ref.-no.: LS 5073 TSM, LS 5093 TSM, LS 5093 TSEM, LS 5073 RF TSM, LS 5236 TSM, FM LS 5003 M, SI TM LS 5073, SI TM LS 5093</p> <p>Thermoplastic (breakproof) high-gloss ivory ☑ LS 503 TSA white ☑ LS 503 TSA WW light grey ☑ LS 503 TSA LG black ☑ LS 503 TSA SW</p> <p>matt lacquered matt snow white LS 503 TSA WWM matt graphite black LS 503 TSA SWM</p> <p>metal versions aluminium ☑ AL 2503 TSA stainless steel ☑ ES 2503 TSA anthracite (aluminium lacquered) AL 2503 TSA AN dark (aluminium lacquered) AL 2503 TSA D chrome GCR 2503 TSA gold-coloured GO 2503 TSA gold-plated LS 503 TSA GGO classic brass ☑ ME 2503 TSA C antique brass ME 2503 TSA AT</p>
	<p>Cover kit 4-gang to clip on F 50 push-button modules 4-gang of the LS range ref.-no.: LS 5074 TSM, LS 5094 TSM, LS 5094 TSEM, LS 5194 KRM TS D, LS 5074 RF TSM, LS 5248 TSM, FM LS 5004 M</p> <p>Thermoplastic (breakproof) high-gloss ivory ☑ LS 504 TSA white ☑ LS 504 TSA WW light grey ☑ LS 504 TSA LG black ☑ LS 504 TSA SW</p> <p>matt lacquered matt snow white LS 504 TSA WWM matt graphite black LS 504 TSA SWM</p> <p>metal versions aluminium ☑ AL 2504 TSA stainless steel ☑ ES 2504 TSA anthracite (aluminium lacquered) AL 2504 TSA AN dark (aluminium lacquered) AL 2504 TSA D chrome GCR 2504 TSA gold-coloured GO 2504 TSA gold-plated LS 504 TSA GGO classic brass ☑ ME 2504 TSA C antique brass ME 2504 TSA AT</p>

KNX
F 50
LS range

Ref.-no.



Transparent cover with paper inlay

(Spare part)

to clip on F 50 push-button modules of the LS range
ref.-no.: LS 507.. TSM, LS 509.. TSM, LS 509.. TSEM,
LS 5178 TSM, LS 5178 TSEM, LS 507.. RF TSM,
LS 52.. TSM, FM LS 50.. M

Also included in delivery of modules.

inscription field 33 x 67.5 mm

paper inlay pearly **LS 50 NA**



Neutral cover

to clip on F 50 push-button modules of the LS range
ref.-no.: LS 507.. TSM, LS 509.. TSM, LS 509.. TSEM,
LS 5178 TSM, LS 5178 TSEM, LS 507.. RF TSM,
LS 52.. TSM, FM LS 50.. M

dimensions: 33 x 70.5 mm

Thermoplastic (breakproof) high-gloss

ivory **LS 50 NA W**

white **LS 50 NA WW**

light grey **LS 50 NA LG**

black **LS 50 NA SW**

matt lacquered

matt snow white **LS 50 NA WWM**

matt graphite black **LS 50 NA SWM**

metal colours (thermoplastic lacquered)

aluminium
(lacquered) **AL 50 NA-L**

stainless steel
(lacquered) **ES 50 NA-L**

anthracite (lacquered) **AL 50 NA AN-L**

dark (lacquered) **AL 50 NA D-L**

classic brass
(lacquered) **ME 50 NA C-L**

antique brass
(lacquered) **ME 50 NA AT-L**

Professional inscription see www.jung.de/gt

KNX
F 50
LS range

Ref.-no.



Cover, suitable for backlighting





to clip on F 50 push-button modules of the LS range
ref.-no.: LS 507.. TSM, LS 509.. TSM, LS 509.. TSEM,
LS 5178 TSM, LS 5178 TSEM, LS 507.. RF TSM,
LS 52.. TSM, FM LS 50.. M




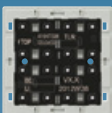

dimensions: 33 x 70.5 mm

The cover is lacquered on the back and can be lasered
individually using the Graphic Tool.

Order only via Graphic Tool: www.jung.de/gt

Thermoplastic (breakproof) high-gloss
black **LS 50 NA TX SW-L**

	Ref.-no.
	<p>KNX standard push-button module</p> <p>Adapter frames are included in delivery: ref.-no. LS 4 AR for LS range (pre-mounted) and ref.-no. CD 4 AR for CD range. AS / A ranges without adapter frame. Only with the ETS 3.0d version or later versions the full functionality will be available.</p> <p>Intended use</p> <ul style="list-style-type: none"> • Operation of loads, e.g. light on/off, dimming, blinds up/down, calling up and saving light scenes, etc. • Installation in flush box according to EN 60670-1 <p>Product characteristics</p> <ul style="list-style-type: none"> • KNX medium: TP 256 • Push-button functions switching, dimming, blind control, value transmitter, scene recall, etc. • To be completed with cover kit • One red status LED per button • One blue operation LED as an orientation light and to indicate the programming status • Integrated bus coupling unit • Transparent cover kit (included) for temporary site use without design covers <p>Standard, 1-gang ETS product family: Push-button Product type: 1-gang push-button 1 blue LED: operation indication 1 red LED: status indication 4071 TSM</p>
	<p>Standard, 2-gang ETS product family: Push-button Product type: 2-gang push-button 1 blue LED: operation indication 2 red LED: status indication 4072 TSM</p>
	<p>Standard, 3-gang ETS product family: Push-button Product type: 3-gang push-button 1 blue LED: operation indication 3 red LED: status indication 4073 TSM</p>
	<p>Standard, 4-gang ETS product family: Push-button Product type: 4-gang push-button 1 blue LED: operation indication 4 red LED: status indication 4074 TSM</p>

	Ref.-no.								
	<p>KNX universal push-button module</p> <p>can be extended by means of a push-button extension module, ref.-no.: 409.. TSEM Adapter frames are included in delivery: ref.-no. LS 4 AR for LS range (pre-mounted) and ref.-no. CD 4 AR for CD range. AS / A ranges without adapter frame. Only with the ETS 3.0d version or later versions the full functionality will be available.</p> <p>Intended use</p> <ul style="list-style-type: none"> • Operation of loads, e.g. light on/off, dimming, blinds up/down, brightness values, temperatures, calling up and saving light scenes, etc. • Installation in flush box according to EN 60670-1 <p>Product characteristics</p> <ul style="list-style-type: none"> • KNX medium: TP 256 • Push-button functions switching, dimming, blind control, value transmitter, scene recall, etc. • Measurement of room temperature • To be completed with cover kit • Two red status LEDs per button • One blue operation LED as an orientation light and to indicate the programming status • Integrated bus coupling unit • One, two or three functions per button • Push-button function or rocker function, vertical or horizontal • Connection for a push-button extension module, 1-4 gang • Transparent cover kit (included) for temporary site use without design covers <p>Universal, 1-gang ETS product family: Push-button Product type: 1-gang push-button 1 blue LED: operation indication 2 red LED: status indication 4191 TSM</p>								
	<p>Universal, 2-gang ETS product family: Push-button Product type: 2-gang push-button 1 blue LED: operation indication 4 red LED: status indication 4192 TSM</p>								
	<p>Universal, 3-gang ETS product family: Push-button Product type: 3-gang push-button 1 blue LED: operation indication 6 red LED: status indication 4193 TSM</p>								
	<p>Universal, 4-gang ETS product family: Push-button Product type: 4-gang push-button 1 blue LED: operation indication 8 red LED: status indication 4194 TSM</p>								
	<p>Push-button extension module for the extension of up to 4 additional push-buttons for the devices:</p> <ul style="list-style-type: none"> • Universal push-button module (ref.-no. 419.. TSM) • Room controller display compact module (ref.-no. 4093 KRM TS D) <p>preferred installation: vertical Adapter frames are included in delivery: ref.-no. LS 4 AR for LS range (pre-mounted) and ref.-no. CD 4 AR for CD range. AS / A ranges without adapter frame. red LED: status indication</p> <table style="width: 100%; border: none;"> <tr> <td style="padding-right: 20px;">1-gang</td> <td>4091 TSEM</td> </tr> <tr> <td>2-gang</td> <td>4092 TSEM</td> </tr> <tr> <td>3-gang</td> <td>4093 TSEM</td> </tr> <tr> <td>4-gang</td> <td>4094 TSEM</td> </tr> </table>	1-gang	4091 TSEM	2-gang	4092 TSEM	3-gang	4093 TSEM	4-gang	4094 TSEM
1-gang	4091 TSEM								
2-gang	4092 TSEM								
3-gang	4093 TSEM								
4-gang	4094 TSEM								

KNX
F 40
AS and A ranges

Ref.-no.

Cover kits for AS and A ranges



Cover kit 1-gang

to clip on F 40 push-button modules 1-gang
ref.-no.: 4071 TSM, 4191 TSM, 4091 TSEM, 4071 RF TSM, 4212 TSM, 4008 TSM, FM 4001 M

Thermoplastic (breakproof) high-gloss

ivory **A 401 TSA**
white **A 401 TSA WW**
black **A 401 TSA SW**

Thermoplastic (breakproof) lacquered

aluminium **A 401 TSA AL**
champagne **A 401 TSA CH**
mocha **A 401 TSA MO**

matt lacquered

matt snow white **A 401 TSA WWM**
matt graphite black **A 401 TSA SWM**
matt anthracite **A 401 TSA ANM**



Cover kit 2-gang

to clip on F 40 push-button modules 2-gang
ref.-no.: 4072 TSM, 4192 TSM, 4092 TSEM, 4072 RF TSM, 4224 TSM, 4008 TSM, FM 4002 M

Thermoplastic (breakproof) high-gloss

ivory **A 402 TSA**
white **A 402 TSA WW**
black **A 402 TSA SW**

Thermoplastic (breakproof) lacquered

aluminium **A 402 TSA AL**
champagne **A 402 TSA CH**
mocha **A 402 TSA MO**

matt lacquered

matt snow white **A 402 TSA WWM**
matt graphite black **A 402 TSA SWM**
matt anthracite **A 402 TSA ANM**



Cover kit 3-gang

to clip on F 40 push-button modules 3-gang
ref.-no.: 4073 TSM, 4193 TSM, 4093 TSEM, 4073 RF TSM, 4236 TSM, 4008 TSM, FM 4003 M

Thermoplastic (breakproof) high-gloss

ivory **A 403 TSA**
white **A 403 TSA WW**
black **A 403 TSA SW**

Thermoplastic (breakproof) lacquered

aluminium **A 403 TSA AL**
champagne **A 403 TSA CH**
mocha **A 403 TSA MO**

matt lacquered

matt snow white **A 403 TSA WWM**
matt graphite black **A 403 TSA SWM**
matt anthracite **A 403 TSA ANM**



Cover kit 4-gang

to clip on F 40 push-button modules 4-gang
ref.-no.: 4074 TSM, 4194 TSM, 4094 TSEM, 4074 RF TSM, 4248 TSM, 4008 TSM, FM 4004 M

Thermoplastic (breakproof) high-gloss

ivory **A 404 TSA**
white **A 404 TSA WW**
black **A 404 TSA SW**

Thermoplastic (breakproof) lacquered

aluminium **A 404 TSA AL**
champagne **A 404 TSA CH**
mocha **A 404 TSA MO**

matt lacquered

matt snow white **A 404 TSA WWM**
matt graphite black **A 404 TSA SWM**
matt anthracite **A 404 TSA ANM**

Professional laser inscription and colour printing!
For further information see www.jung.de/gt

KNX
F 40
AS and A ranges

Ref.-no.

Covers with symbols for AS and A ranges



Cover 1-gang with arrow symbols

to clip on F 40 push-button modules 1-gang
ref.-no.: 4071 TSM, 4191 TSM, 4091 TSEM, 4071 RF TSM, 4212 TSM, 4008 TSM, FM 4001 M

Thermoplastic (breakproof) high-gloss

ivory **A 401 TSAP**
white **A 401 TSAP WW**
black **A 401 TSAP SW**

Thermoplastic (breakproof) lacquered

aluminium **A 401 TSAP AL**
champagne **A 401 TSAP CH**
mocha **A 401 TSAP MO**

matt lacquered

matt snow white **A 401 TSAP WWM**
matt graphite black **A 401 TSAP SWM**
matt anthracite **A 401 TSAP ANM**



Cover 2-gang with arrow symbols

to exchange the covers of the cover kit 2-gang
ref.-no.: A 402 TSA..
and the right cover of the cover kit 3-gang
ref.-no.: A 403 TSA..

Thermoplastic (breakproof) high-gloss

ivory **A 402 TSAP**
white **A 402 TSAP WW**
black **A 402 TSAP SW**

Thermoplastic (breakproof) lacquered

aluminium **A 402 TSAP AL**
champagne **A 402 TSAP CH**
mocha **A 402 TSAP MO**

matt lacquered

matt snow white **A 402 TSAP WWM**
matt graphite black **A 402 TSAP SWM**
matt anthracite **A 402 TSAP ANM**



Cover 4-gang with arrow symbols

to exchange the top left cover of the cover kit 3-gang
ref.-no.: A 403 TSA..
and top left and bottom right cover of the cover kit 4-gang
ref.-no.: A 404 TSA..

Thermoplastic (breakproof) high-gloss

ivory **A 404 TSAP 14**
white **A 404 TSAP WW 14**
black **A 404 TSAP SW 14**

Thermoplastic (breakproof) lacquered

aluminium **A 404 TSAP AL 14**
champagne **A 404 TSAP CH 14**
mocha **A 404 TSAP MO 14**

matt lacquered

matt snow white **A 404 TSAP WWM 14**
matt graphite black **A 404 TSAP SWM 14**
matt anthracite **A 404 TSAP ANM 14**



Cover 4-gang with arrow symbols

to exchange the bottom left cover of the cover kit 3-gang
ref.-no.: A 403 TSA..
and top right and bottom left cover of the cover kit 4-gang
ref.-no.: A 404 TSA..

Thermoplastic (breakproof) high-gloss

ivory **A 404 TSAP 23**
white **A 404 TSAP WW 23**
black **A 404 TSAP SW 23**





Thermoplastic (breakproof) lacquered

aluminium **A 404 TSAP AL 23**
champagne **A 404 TSAP CH 23**
mocha **A 404 TSAP MO 23**






matt lacquered

matt snow white **A 404 TSAP WWM 23**
matt graphite black **A 404 TSAP SWM 23**
matt anthracite **A 404 TSAP ANM 23**

KNX
F 40
CD range

	Ref.-no.										
	<p>Cover kits for CD range</p> <p>Cover kit 1-gang to clip on F 40 push-button modules 1-gang ref.-no.: 4071 TSM, 4191 TSM, 4091 TSEM, 4071 RF TSM, 4212 TSM, 4008 TSM, FM 4001 M</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr><td>ivory</td><td>CD 401 TSA</td></tr> <tr><td>white</td><td>CD 401 TSA WW</td></tr> <tr><td>grey</td><td>CD 401 TSA GR</td></tr> <tr><td>light grey</td><td>CD 401 TSA LG</td></tr> <tr><td>black</td><td>CD 401 TSA SW</td></tr> </table>	ivory	CD 401 TSA	white	CD 401 TSA WW	grey	CD 401 TSA GR	light grey	CD 401 TSA LG	black	CD 401 TSA SW
ivory	CD 401 TSA										
white	CD 401 TSA WW										
grey	CD 401 TSA GR										
light grey	CD 401 TSA LG										
black	CD 401 TSA SW										
	<p>Cover kit 2-gang to clip on F 40 push-button modules 2-gang ref.-no.: 4072 TSM, 4192 TSM, 4092 TSEM, 4072 RF TSM, 4224 TSM, 4008 TSM, FM 4002 M</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr><td>ivory</td><td>CD 402 TSA</td></tr> <tr><td>white</td><td>CD 402 TSA WW</td></tr> <tr><td>grey</td><td>CD 402 TSA GR</td></tr> <tr><td>light grey</td><td>CD 402 TSA LG</td></tr> <tr><td>black</td><td>CD 402 TSA SW</td></tr> </table>	ivory	CD 402 TSA	white	CD 402 TSA WW	grey	CD 402 TSA GR	light grey	CD 402 TSA LG	black	CD 402 TSA SW
ivory	CD 402 TSA										
white	CD 402 TSA WW										
grey	CD 402 TSA GR										
light grey	CD 402 TSA LG										
black	CD 402 TSA SW										
	<p>Cover kit 3-gang to clip on F 40 push-button modules 3-gang ref.-no.: 4073 TSM, 4193 TSM, 4093 TSEM, 4073 RF TSM, 4236 TSM, 4008 TSM, FM 4003 M</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr><td>ivory</td><td>CD 403 TSA</td></tr> <tr><td>white</td><td>CD 403 TSA WW</td></tr> <tr><td>grey</td><td>CD 403 TSA GR</td></tr> <tr><td>light grey</td><td>CD 403 TSA LG</td></tr> <tr><td>black</td><td>CD 403 TSA SW</td></tr> </table>	ivory	CD 403 TSA	white	CD 403 TSA WW	grey	CD 403 TSA GR	light grey	CD 403 TSA LG	black	CD 403 TSA SW
ivory	CD 403 TSA										
white	CD 403 TSA WW										
grey	CD 403 TSA GR										
light grey	CD 403 TSA LG										
black	CD 403 TSA SW										
	<p>Cover kit 4-gang to clip on F 40 push-button modules 4-gang ref.-no.: 4074 TSM, 4194 TSM, 4094 TSEM, 4074 RF TSM, 4248 TSM, 4008 TSM, FM 4004 M</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr><td>ivory</td><td>CD 404 TSA</td></tr> <tr><td>white</td><td>CD 404 TSA WW</td></tr> <tr><td>grey</td><td>CD 404 TSA GR</td></tr> <tr><td>light grey</td><td>CD 404 TSA LG</td></tr> <tr><td>black</td><td>CD 404 TSA SW</td></tr> </table> <p>Professional laser inscription and colour printing! For further information see www.jung.de/gt</p>	ivory	CD 404 TSA	white	CD 404 TSA WW	grey	CD 404 TSA GR	light grey	CD 404 TSA LG	black	CD 404 TSA SW
ivory	CD 404 TSA										
white	CD 404 TSA WW										
grey	CD 404 TSA GR										
light grey	CD 404 TSA LG										
black	CD 404 TSA SW										

KNX
F 40
CD range

	Ref.-no.										
	<p>Covers with symbols for CD range</p> <p>Cover 1-gang with arrow symbols to clip on F 40 push-button modules 1-gang ref.-no.: 4071 TSM, 4191 TSM, 4091 TSEM, 4071 RF TSM, 4212 TSM, 4008 TSM, FM 4001 M</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr><td>ivory</td><td>CD 401 TSAP</td></tr> <tr><td>white</td><td>CD 401 TSAP WW</td></tr> <tr><td>grey</td><td>CD 401 TSAP GR</td></tr> <tr><td>light grey</td><td>CD 401 TSAP LG</td></tr> <tr><td>black</td><td>CD 401 TSAP SW</td></tr> </table>	ivory	CD 401 TSAP	white	CD 401 TSAP WW	grey	CD 401 TSAP GR	light grey	CD 401 TSAP LG	black	CD 401 TSAP SW
ivory	CD 401 TSAP										
white	CD 401 TSAP WW										
grey	CD 401 TSAP GR										
light grey	CD 401 TSAP LG										
black	CD 401 TSAP SW										
	<p>Cover 2-gang with arrow symbols to exchange the covers of the cover kit 2-gang ref.-no.: CD 402 TSA.. and the right cover of the cover kit 3-gang ref.-no.: CD 403 TSA..</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr><td>ivory</td><td>CD 402 TSAP</td></tr> <tr><td>white</td><td>CD 402 TSAP WW</td></tr> <tr><td>grey</td><td>CD 402 TSAP GR</td></tr> <tr><td>light grey</td><td>CD 402 TSAP LG</td></tr> <tr><td>black</td><td>CD 402 TSAP SW</td></tr> </table>	ivory	CD 402 TSAP	white	CD 402 TSAP WW	grey	CD 402 TSAP GR	light grey	CD 402 TSAP LG	black	CD 402 TSAP SW
ivory	CD 402 TSAP										
white	CD 402 TSAP WW										
grey	CD 402 TSAP GR										
light grey	CD 402 TSAP LG										
black	CD 402 TSAP SW										
	<p>Cover 4-gang with arrow symbols to exchange the top left cover of the cover kit 3-gang ref.-no.: CD 403 TSA.. and top left and bottom right cover of the cover kit 4-gang ref.-no.: CD 404 TSA..</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr><td>ivory</td><td>CD 404 TSAP 14</td></tr> <tr><td>white</td><td>CD 404 TSAP WW 14</td></tr> <tr><td>grey</td><td>CD 404 TSAP GR 14</td></tr> <tr><td>light grey</td><td>CD 404 TSAP LG 14</td></tr> <tr><td>black</td><td>CD 404 TSAP SW 14</td></tr> </table>	ivory	CD 404 TSAP 14	white	CD 404 TSAP WW 14	grey	CD 404 TSAP GR 14	light grey	CD 404 TSAP LG 14	black	CD 404 TSAP SW 14
ivory	CD 404 TSAP 14										
white	CD 404 TSAP WW 14										
grey	CD 404 TSAP GR 14										
light grey	CD 404 TSAP LG 14										
black	CD 404 TSAP SW 14										
	<p>Cover 4-gang with arrow symbols to exchange the bottom left cover of the cover kit 3-gang ref.-no.: CD 403 TSA.. and top right and bottom left cover of the cover kit 4-gang ref.-no.: CD 404 TSA..</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr><td>ivory</td><td>CD 404 TSAP 23</td></tr> <tr><td>white</td><td>CD 404 TSAP WW 23</td></tr> <tr><td>grey</td><td>CD 404 TSAP GR 23</td></tr> <tr><td>light grey</td><td>CD 404 TSAP LG 23</td></tr> <tr><td>black</td><td>CD 404 TSAP SW 23</td></tr> </table>	ivory	CD 404 TSAP 23	white	CD 404 TSAP WW 23	grey	CD 404 TSAP GR 23	light grey	CD 404 TSAP LG 23	black	CD 404 TSAP SW 23
ivory	CD 404 TSAP 23										
white	CD 404 TSAP WW 23										
grey	CD 404 TSAP GR 23										
light grey	CD 404 TSAP LG 23										
black	CD 404 TSAP SW 23										
	<p>Adapter frame (Spare part) to combine push-button modules with CD range Also included in delivery of modules. CD 4 AR</p>										

Ref.-no.

Cover kits for LS range

Cover kit 1-gang

to clip on F 40 push-button modules 1-gang
ref.-no.: 4071 TSM, 4191 TSM, 4091 TSEM, 4071 RF TSM,
4212 TSM, 4008 TSM, FM 4001 M

Thermoplastic (breakproof) high-gloss

ivory **LS 401 TSA**
white **LS 401 TSA WW**
light grey **LS 401 TSA LG**
black **LS 401 TSA SW**

matt lacquered

matt snow white **LS 401 TSA WWM**
matt graphite black **LS 401 TSA SWM**

metal versions

aluminium **AL 2401 TSA**
stainless steel **ES 2401 TSA**
anthracite (aluminium
lacquered) **AL 2401 TSA AN**
dark (aluminium
lacquered) **AL 2401 TSA D**
classic brass **ME 2401 TSA C**
antique brass **ME 2401 TSA AT**

Cover kit 2-gang

to clip on F 40 push-button modules 2-gang
ref.-no.: 4072 TSM, 4192 TSM, 4092 TSEM, 4072 RF TSM,
4224 TSM, 4008 TSM, FM 4002 M

Thermoplastic (breakproof) high-gloss

ivory **LS 402 TSA**
white **LS 402 TSA WW**
light grey **LS 402 TSA LG**
black **LS 402 TSA SW**

matt lacquered

matt snow white **LS 402 TSA WWM**
matt graphite black **LS 402 TSA SWM**

metal versions

aluminium **AL 2402 TSA**
stainless steel **ES 2402 TSA**
anthracite (aluminium
lacquered) **AL 2402 TSA AN**
dark (aluminium
lacquered) **AL 2402 TSA D**
classic brass **ME 2402 TSA C**
antique brass **ME 2402 TSA AT**

Cover kit 3-gang

to clip on F 40 push-button modules 3-gang
ref.-no.: 4073 TSM, 4193 TSM, 4093 TSEM, 4073 RF TSM,
4236 TSM, 4008 TSM, FM 4003 M

Thermoplastic (breakproof) high-gloss

ivory **LS 403 TSA**
white **LS 403 TSA WW**
light grey **LS 403 TSA LG**
black **LS 403 TSA SW**

matt lacquered

matt snow white **LS 403 TSA WWM**
matt graphite black **LS 403 TSA SWM**

metal versions

aluminium **AL 2403 TSA**
stainless steel **ES 2403 TSA**
anthracite (aluminium
lacquered) **AL 2403 TSA AN**
dark (aluminium
lacquered) **AL 2403 TSA D**
classic brass **ME 2403 TSA C**
antique brass **ME 2403 TSA AT**

Ref.-no.

Cover kit 4-gang

to clip on F 40 push-button modules 4-gang
ref.-no.: 4074 TSM, 4194 TSM, 4094 TSEM, 4074 RF TSM,
4248 TSM, 4008 TSM, FM 4004 M

Thermoplastic (breakproof) high-gloss

ivory **LS 404 TSA**
white **LS 404 TSA WW**
light grey **LS 404 TSA LG**
black **LS 404 TSA SW**

matt lacquered

matt snow white **LS 404 TSA WWM**
matt graphite black **LS 404 TSA SWM**

metal versions

aluminium **AL 2404 TSA**
stainless steel **ES 2404 TSA**
anthracite (aluminium
lacquered) **AL 2404 TSA AN**
dark (aluminium
lacquered) **AL 2404 TSA D**
classic brass **ME 2404 TSA C**
antique brass **ME 2404 TSA AT**

Professional laser inscription and colour printing!
For further information see www.jung.de/gt

Covers with symbols for LS range

Cover 1-gang with arrow symbols

to clip on F 40 push-button modules 1-gang
ref.-no.: 4071 TSM, 4191 TSM, 4091 TSEM, 4071 RF TSM,
4212 TSM, 4008 TSM, FM 4001 M

Thermoplastic (breakproof) high-gloss

ivory **LS 401 TSAP**
white **LS 401 TSAP WW**
light grey **LS 401 TSAP LG**
black **LS 401 TSAP SW**

matt lacquered

matt snow white **LS 401 TSAP WWM**
matt graphite black **LS 401 TSAP SWM**

metal versions

aluminium **AL 2401 TSAP**
stainless steel **ES 2401 TSAP**
anthracite (aluminium
lacquered) **AL 2401 TSAP AN**
dark (aluminium
lacquered) **AL 2401 TSAP D**

Cover 2-gang with arrow symbols

to exchange the covers of the cover kit 2-gang
ref.-no.: ..402 TSA..
and the right cover of the cover kit 3-gang ref.-no.: ..403 TSA..
in the LS range

Thermoplastic (breakproof) high-gloss




ivory **LS 402 TSAP**
white **LS 402 TSAP WW**
light grey **LS 402 TSAP LG**
black **LS 402 TSAP SW**

matt lacquered

matt snow white **LS 402 TSAP WWM**
matt graphite black **LS 402 TSAP SWM**

metal versions

aluminium **AL 2402 TSAP**
stainless steel **ES 2402 TSAP**
anthracite (aluminium
lacquered) **AL 2402 TSAP AN**
dark (aluminium
lacquered) **AL 2402 TSAP D**
classic brass **ME 2402 TSAP C**
antique brass **ME 2402 TSAP AT**

	Ref.-no.
	<p>Cover 4-gang with arrow symbols to exchange the top left cover of the cover kit 3-gang ref.-no.: ..403 TSA.. and top left and bottom right cover of the cover kit 4-gang ref.-no.: ..404 TSA.. in the LS range</p> <p>Thermoplastic (breakproof) high-gloss ivory LS 404 TSAP 14 white LS 404 TSAP WW 14 light grey LS 404 TSAP LG 14 black LS 404 TSAP SW 14</p> <p>matt lacquered matt snow white LS 404 TSAP WWM 14 matt graphite black LS 404 TSAP SWM 14</p> <p>metal versions aluminium AL 2404 TSAP 14 stainless steel ES 2404 TSAP 14 anthracite (aluminium lacquered) AL 2404 TSAP AN 14 dark (aluminium lacquered) AL 2404 TSAP D 14 classic brass ME 2404 TSAP C 14 antique brass ME 2404 TSAP AT 14</p>
	<p>Cover 4-gang with arrow symbols to exchange the bottom left cover of the cover kit 3-gang ref.-no.: ..403 TSA.. and top right and bottom left cover of the cover kit 4-gang ref.-no.: ..404 TSA.. in the LS range</p> <p>Thermoplastic (breakproof) high-gloss ivory LS 404 TSAP 23 white LS 404 TSAP WW 23 light grey LS 404 TSAP LG 23 black LS 404 TSAP SW 23</p> <p>matt lacquered matt snow white LS 404 TSAP WWM 23 matt graphite black LS 404 TSAP SWM 23</p> <p>metal versions aluminium AL 2404 TSAP 23 stainless steel ES 2404 TSAP 23 anthracite (aluminium lacquered) AL 2404 TSAP AN 23 dark (aluminium lacquered) AL 2404 TSAP D 23 classic brass ME 2404 TSAP C 23 antique brass ME 2404 TSAP AT 23</p>
	<p>Adapter frame (Spare part) to combine push-button modules with LS range Also included in delivery of modules. LS 4 AR</p>

	Ref.-no.								
	<p>KNX room controller display compact module can be extended by means of a push-button extension module, ref.-no.: 409.. TSEM Adapter frames are included in delivery: ref.-no. LS 4 AR for LS range (pre-mounted) and ref.-no. CD 4 AR for CD range. AS / A ranges without adapter frame.</p> <p style="text-align: right;">4093 KRM TS D</p> <ul style="list-style-type: none"> • Measurement and feedback control of the room temperature • Operation of loads, e.g. light on/off, dimming, blinds up/down, brightness values, temperatures, calling up and saving light scenes, etc. 								
	<p>Technical data Recommended mounting height: 1.5 m</p> <p>Push-button extension module for the extension of up to 4 additional push-buttons for the devices:</p> <ul style="list-style-type: none"> • Universal push-button module (ref.-no. 419.. TSM) • Room controller display compact module (ref.-no. 4093 KRM TS D) <p>preferred installation: vertical Adapter frames are included in delivery: ref.-no. LS 4 AR for LS range (pre-mounted) and ref.-no. CD 4 AR for CD range. AS / A ranges without adapter frame. red LED: status indication</p> <table style="width: 100%;"> <tr> <td>1-gang</td> <td style="text-align: right;">4091 TSEM</td> </tr> <tr> <td>2-gang</td> <td style="text-align: right;">4092 TSEM</td> </tr> <tr> <td>3-gang</td> <td style="text-align: right;">4093 TSEM</td> </tr> <tr> <td>4-gang</td> <td style="text-align: right;">4094 TSEM</td> </tr> </table>	1-gang	4091 TSEM	2-gang	4092 TSEM	3-gang	4093 TSEM	4-gang	4094 TSEM
1-gang	4091 TSEM								
2-gang	4092 TSEM								
3-gang	4093 TSEM								
4-gang	4094 TSEM								

KNX
F 40
AS and A ranges

Ref.-no.

Cover kits for AS and A ranges

Cover kit

to clip on room controller display compact module
ref.-no.: 4093 KRM TS D

Thermoplastic (breakproof) high-gloss

ivory **A 4093 TSA**
white **A 4093 TSA WW**
black **A 4093 TSA SW**

Thermoplastic (breakproof) lacquered

aluminium **A 4093 TSA AL**
champagne **A 4093 TSA CH**
mocha **A 4093 TSA MO**

matt lacquered

matt snow white **A 4093 TSA WWM**
matt graphite black **A 4093 TSA SWM**
matt anthracite **A 4093 TSA ANM**

Cover with temperature symbol

to exchange the display cover of the cover kit
ref.-no.: A 4093 TSA..

Thermoplastic (breakproof) high-gloss

A 409 T

Cover 4-gang with arrow symbols

to exchange the bottom right cover of the cover kit
ref.-no.: A 4093 TSA..

Thermoplastic (breakproof) high-gloss

ivory **A 404 TSAP 14**
white **A 404 TSAP WW 14**
black **A 404 TSAP SW 14**

Thermoplastic (breakproof) lacquered

aluminium **A 404 TSAP AL 14**
champagne **A 404 TSAP CH 14**
mocha **A 404 TSAP MO 14**

matt lacquered

matt snow white **A 404 TSAP WWM 14**
matt graphite black **A 404 TSAP SWM 14**
matt anthracite **A 404 TSAP ANM 14**

Cover 4-gang with arrow symbols

to exchange the bottom left cover of the cover kit
ref.-no.: A 4093 TSA..

Thermoplastic (breakproof) high-gloss

ivory **A 404 TSAP 23**
white **A 404 TSAP WW 23**
black **A 404 TSAP SW 23**

Thermoplastic (breakproof) lacquered

aluminium **A 404 TSAP AL 23**
champagne **A 404 TSAP CH 23**
mocha **A 404 TSAP MO 23**

matt lacquered

matt snow white **A 404 TSAP WWM 23**
matt graphite black **A 404 TSAP SWM 23**
matt anthracite **A 404 TSAP ANM 23**

Professional laser inscription and colour printing!
For further information see www.jung.de/gt

KNX
F 40
CD range

Ref.-no.

Cover kits for CD range

Cover kit

to clip on room controller display compact module
ref.-no.: 4093 KRM TS D

Thermoplastic (breakproof) high-gloss

ivory **CD 4093 TSA**
white **CD 4093 TSA WW**
grey **CD 4093 TSA GR**
light grey **CD 4093 TSA LG**
black **CD 4093 TSA SW**

Cover with temperature symbol

to exchange the display cover of the cover kit
ref.-no.: CD 4093 TSA..

Thermoplastic (breakproof) high-gloss

CD 409 T

Cover 4-gang with arrow symbols

to exchange the bottom right cover of the cover kit
ref.-no.: CD 4093 TSA..

Thermoplastic (breakproof) high-gloss

ivory **CD 404 TSAP 14**
white **CD 404 TSAP WW 14**
grey **CD 404 TSAP GR 14**
light grey **CD 404 TSAP LG 14**
black **CD 404 TSAP SW 14**

Cover 4-gang with arrow symbols

to exchange the bottom left cover of the cover kit
ref.-no.: CD 4093 TSA..

Thermoplastic (breakproof) high-gloss

ivory **CD 404 TSAP 23**
white **CD 404 TSAP WW 23**
grey **CD 404 TSAP GR 23**
light grey **CD 404 TSAP LG 23**
black **CD 404 TSAP SW 23**

Adapter frame

(Spare part)

to combine push-button modules with CD range
Also included in delivery of modules.

CD 4 AR

Professional laser inscription and colour printing!
For further information see www.jung.de/gt

Ref.-no.

Cover kits for LS range

Cover kit

to clip on room controller display compact module
ref.-no.: 4093 KRM TS D

Thermoplastic (breakproof) high-gloss

- ivory ■ LS 4093 TSA
- white ■ LS 4093 TSA WW
- light grey ■ LS 4093 TSA LG
- black ■ LS 4093 TSA SW

matt lacquered

- matt snow white LS 4093 TSA WWM
- matt graphite black LS 4093 TSA SWM

metal versions

- aluminium ■ AL 4093 TSA
- stainless steel ■ ES 4093 TSA
- anthracite (aluminium
lacquered) AL 4093 TSA AN
- dark (aluminium
lacquered) AL 4093 TSA D
- classic brass ■ ME 4093 TSA C
- antique brass ME 4093 TSA AT

Cover with temperature symbol

to exchange the display cover of the cover kit
ref.-no.: ... 4093 TSA .. in the LS range

Thermoplastic (breakproof) high-gloss
LS 409 T

Cover 4-gang with arrow symbols

to exchange the bottom right cover of the cover kit
ref.-no.: ... 4093 TSA .. in the LS range

Thermoplastic (breakproof) high-gloss

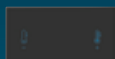
- ivory LS 404 TSAP 14
- white LS 404 TSAP WW 14
- light grey LS 404 TSAP LG 14
- black LS 404 TSAP SW 14

matt lacquered

- matt snow white LS 404 TSAP WWM 14
- matt graphite black LS 404 TSAP SWM 14

metal versions

- aluminium AL 2404 TSAP 14
- stainless steel ES 2404 TSAP 14
- anthracite (aluminium
lacquered) AL 2404 TSAP AN 14
- dark (aluminium
lacquered) AL 2404 TSAP D 14
- classic brass ME 2404 TSAP C 14
- antique brass ME 2404 TSAP AT 14



Ref.-no.

Cover 4-gang with arrow symbols

to exchange the bottom left cover of the cover kit
ref.-no.: ... 4093 TSA .. in the LS range

Thermoplastic (breakproof) high-gloss

- ivory LS 404 TSAP 23
- white LS 404 TSAP WW 23
- light grey LS 404 TSAP LG 23
- black LS 404 TSAP SW 23

matt lacquered

- matt snow white LS 404 TSAP WWM 23
- matt graphite black LS 404 TSAP SWM 23

metal versions

- aluminium AL 2404 TSAP 23
- stainless steel ES 2404 TSAP 23
- anthracite (aluminium
lacquered) AL 2404 TSAP AN 23
- dark (aluminium
lacquered) AL 2404 TSAP D 23
- classic brass ME 2404 TSAP C 23
- antique brass ME 2404 TSAP AT 23

Adapter frame

(Spare part)
to combine push-button modules with LS range
Also included in delivery of modules.

LS 4 AR



Professional laser inscription and colour printing!
For further information see www.jung.de/gt

KNX RF F 50 AS and A ranges

Ref.-no.

KNX RF radio transmitter modules F 50

Intended use

- Radio operation of loads, e.g. light on/off, dimming, Venetian blinds up/down, brightness values, calling up and saving light scenes
- Operation in cabled KNX systems via radio converter (ref.-no.: MK 100 RF)
- Mounting on flush box according to EN 60670-1, screw fixing on walls or adhesive fixing on smooth, even surfaces (glass)

Product characteristics

- Push-button functions switching, dimming, blind control, value transmitter, scene recall, etc.
- Button pairs for push-button function or rocker function
- Status indication with LED
- Integrated temperature sensor
- Battery-powered device (battery compartment accessible from front)
- Project design and commissioning with ETS5 or a more recent version.

for AS and A ranges

KNX RF radio transmitter module 1-gang

including mounting plate, adhesive film and fastening screw including transparent cover ref.-no.: A 50 NA for cover kit 1-gang, ref.-no.: A 501 TSA ..
ETS product family: Push-button
Product type: 1-gang push-button
1 green LED: actuator status
1 red LED: transmission status

A 5071 RF TSM

KNX RF radio transmitter module 2-gang

including mounting plate, adhesive film and fastening screw including transparent cover ref.-no.: A 50 NA for cover kit 2-gang, ref.-no.: A 502 TSA ..
ETS product family: Push-button
Product type: 2-gang push-button
2 green LED: actuator status
1 red LED: transmission status

A 5072 RF TSM

KNX RF radio transmitter module 3-gang

including mounting plate, adhesive film and fastening screw including transparent cover ref.-no.: A 50 NA for cover kit 3-gang, ref.-no.: A 503 TSA ..
ETS product family: Push-button
Product type: 3-gang push-button
3 green LED: actuator status
1 red LED: transmission status

A 5073 RF TSM

KNX RF radio transmitter module 4-gang

including mounting plate, adhesive film and fastening screw including transparent cover ref.-no.: A 50 NA for cover kit 4-gang, ref.-no.: A 504 TSA ..
ETS product family: Push-button
Product type: 4-gang push-button
4 green LED: actuator status
1 red LED: transmission status

A 5074 RF TSM

Cover kits see page 662



KNX RF F 50 CD range

Ref.-no.

KNX RF radio transmitter modules F 50

Intended use

- Radio operation of loads, e.g. light on/off, dimming, Venetian blinds up/down, brightness values, calling up and saving light scenes
- Operation in cabled KNX systems via radio converter (ref.-no.: MK 100 RF)
- Mounting on flush box according to EN 60670-1, screw fixing on walls or adhesive fixing on smooth, even surfaces (glass)

Product characteristics

- Push-button functions switching, dimming, blind control, value transmitter, scene recall, etc.
- Button pairs for push-button function or rocker function
- Status indication with LED
- Integrated temperature sensor
- Battery-powered device (battery compartment accessible from front)
- Project design and commissioning with ETS5 or a more recent version.

for CD range

KNX RF radio transmitter module 1-gang

including mounting plate, adhesive film and fastening screw including transparent cover ref.-no.: CD 50 NA for cover kit 1-gang, ref.-no.: CD 501 TSA ..
ETS product family: Push-button
Product type: 1-gang push-button
1 green LED: actuator status
1 red LED: transmission status

CD 5071 RF TSM

KNX RF radio transmitter module 2-gang

including mounting plate, adhesive film and fastening screw including transparent cover ref.-no.: CD 50 NA for cover kit 2-gang, ref.-no.: CD 502 TSA ..
ETS product family: Push-button
Product type: 2-gang push-button
2 green LED: actuator status
1 red LED: transmission status

CD 5072 RF TSM

KNX RF radio transmitter module 3-gang

including mounting plate, adhesive film and fastening screw including transparent cover ref.-no.: CD 50 NA for cover kit 3-gang, ref.-no.: CD 503 TSA ..
ETS product family: Push-button
Product type: 3-gang push-button
3 green LED: actuator status
1 red LED: transmission status

CD 5073 RF TSM

KNX RF radio transmitter module 4-gang

including mounting plate, adhesive film and fastening screw including transparent cover ref.-no.: CD 50 NA for cover kit 4-gang, ref.-no.: CD 504 TSA ..
ETS product family: Push-button
Product type: 4-gang push-button
4 green LED: actuator status
1 red LED: transmission status

CD 5074 RF TSM

Cover kits see page 665



	Ref.-no.
	<p>KNX RF radio transmitter modules F 50</p> <p>Intended use</p> <ul style="list-style-type: none"> • Radio operation of loads, e.g. light on/off, dimming, Venetian blinds up/down, brightness values, calling up and saving light scenes • Operation in cabled KNX systems via radio converter (ref.-no.: MK 100 RF) • Mounting on flush box according to EN 60670-1, screw fixing on walls or adhesive fixing on smooth, even surfaces (glass) <p>Product characteristics</p> <ul style="list-style-type: none"> • Push-button functions switching, dimming, blind control, value transmitter, scene recall, etc. • Button pairs for push-button function or rocker function • Status indication with LED • Integrated temperature sensor • Battery-powered device (battery compartment accessible from front) • Project design and commissioning with ETS5 or a more recent version. <p>for LS range</p> <p>KNX RF radio transmitter module 1-gang including mounting plate, adhesive film and fastening screw including transparent cover ref.-no.: LS 50 NA for cover kit 1-gang, ref.-no.: ..501 TSA .. in the LS range Can not be combined with frames in FLAT DESIGN. ETS product family: Push-button Product type: 1-gang push-button 1 green LED: actuator status 1 red LED: transmission status LS 5071 RF TSM</p> <p>KNX RF radio transmitter module 2-gang including mounting plate, adhesive film and fastening screw including transparent cover ref.-no.: LS 50 NA for cover kit 2-gang, ref.-no.: ..502 TSA .. in the LS range Can not be combined with frames in FLAT DESIGN. ETS product family: Push-button Product type: 2-gang push-button 2 green LED: actuator status 1 red LED: transmission status LS 5072 RF TSM</p> <p>KNX RF radio transmitter module 3-gang including mounting plate, adhesive film and fastening screw including transparent cover ref.-no.: LS 50 NA for cover kit 3-gang, ref.-no.: ..503 TSA .. in the LS range Can not be combined with frames in FLAT DESIGN. ETS product family: Push-button Product type: 3-gang push-button 3 green LED: actuator status 1 red LED: transmission status LS 5073 RF TSM</p> <p>KNX RF radio transmitter module 4-gang including mounting plate, adhesive film and fastening screw including transparent cover ref.-no.: LS 50 NA for cover kit 4-gang, ref.-no.: ..504 TSA .. in the LS range Can not be combined with frames in FLAT DESIGN. ETS product family: Push-button Product type: 4-gang push-button 4 green LED: actuator status 1 red LED: transmission status LS 5074 RF TSM</p> <p>Cover kits see page 668</p>

	Ref.-no.
	<p>KNX RF radio transmitter modules F 40 Adapter frames are included in delivery: ref.-no. LS 4 AR for LS range (pre-mounted) and ref.-no. CD 4 AR for CD range. AS / A ranges without adapter frame. Project design and commissioning with ETS5 or a more recent version.</p> <p>Intended use</p> <ul style="list-style-type: none"> • Radio operation of loads, e.g. light on/off, dimming, Venetian blinds up/down, brightness values, calling up and saving light scenes • Operation in cabled KNX systems via radio converter (ref.-no.: MK 100 RF) • Mounting on flush box according to EN 60670-1, screw fixing on walls or adhesive fixing on smooth, even surfaces (glass) <p>Product characteristics</p> <ul style="list-style-type: none"> • Push-button functions switching, dimming, blind control, value transmitter, scene recall, etc. • Button pairs for push-button function or rocker function • Status indication with LED • Battery-powered device • Project design and commissioning with ETS5 or a more recent version. • Can not be combined with frames in FLAT DESIGN. <p>KNX RF radio transmitter module 1-gang ETS product family: Push-button Product type: 1-gang push-button 1 red LED: actuator status 1 blue LED: transmission status 4071 RF TSM</p> <p>KNX RF radio transmitter module 2-gang ETS product family: Push-button Product type: 2-gang push-button 2 red LEDs: actuator status 1 blue LED: transmission status 4072 RF TSM</p> <p>KNX RF radio transmitter module 3-gang ETS product family: Push-button Product type: 3-gang push-button 3 red LEDs: actuator status 1 blue LED: transmission status 4073 RF TSM</p> <p>KNX RF radio transmitter module 4-gang ETS product family: Push-button Product type: 4-gang push-button 4 red LEDs: actuator status 1 blue LED: transmission status 4074 RF TSM</p> <p>Cover kits see page 671 to 673</p>

Ref.-no.

KNX RF radio hand-held transmitter

Project design and commissioning with ETS5 or a more recent version.

Intended use

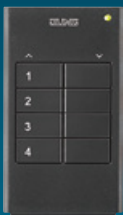
- Radio operation of loads, e.g. light on/off, dimming, Venetian blinds up/down, brightness values, calling up and saving light scenes
- Operation in cabled KNX systems via radio converter (ref.-no.: MK 100 RF)

Product characteristics

- Push-button functions switching, dimming, blind control, value transmitter, scene recall, etc.
- Button pairs for push-button function or rocker function
- Two-colour LED to display actuation, sending status and actuator feedback
- Battery-powered device

**KNX RF radio hand-held transmitter****2-gang**

anthracite

HS 2 RF**KNX RF radio hand-held transmitter****4-gang**

anthracite

HS 4 RF

Ref.-no.

**KNX RF radio USB stick****USB 2130 RF**

- PC interface for the addressing, programming and diagnostics of KNX RF devices
- USB stick for coupling to a PC with a Windows-based operating system

**KNX RF radio converter**

Project design and commissioning with ETS5 or a more recent version.

MK 100 RF

- As of V 02: KNX Data Secure compatible with ETS 5.7.3 or higher
- Connection of KNX radio networks with cabled KNX lines
- Extension of the radio range in KNX radio networks (repeater operation, external power supply with 24 V AC/DC, e.g. ref.-no. NT 2415 REG VDC)





Ref.-no.

Ref.-no.

KNX push-button

Project design and commissioning with ETS5 or a more recent version.

Intended use

- Operation of loads, e.g. light on/off, dimming, blinds up/down, brightness values, temperatures, calling up and saving light scenes, etc.
- Installation in flush box according to EN 60670-1

Standard

Product characteristics

- KNX medium: TP 256
- Operating concept (rocker or button) adjustable for each operating area
- Button evaluation (single- or dual-area operation) adjustable
- One or two functions per operating area
- Integrated bus coupling unit
- One status LED per operating area – red
- KNX Data Secure compatible with ETS 5.7.3 or higher

Universal

Product characteristics

- KNX medium: TP 256
- Operating concept (rocker or button) adjustable for each operating area
- Button evaluation (single- or dual-area operation) adjustable
- One or two functions per operating area
- Integrated bus coupling unit
- Alarm function, optional acknowledge by pressing any button
- Disabling function: Disabling or change function mode of single or all button functions
- Status LED brightness adjustable
- Measurement of room temperature
- One status LED per operating area – red, green or blue, adjustable
- Connection of a push-button extension possible
- Connection of installation buttons or reed contacts possible
- KNX Data Secure compatible with ETS 5.7.3 or higher

Extension

Product characteristics

- Operating concept (rocker or button) adjustable for each operating area
- Button evaluation (single- or dual-area operation) adjustable
- One or two functions per operating area
- Without status LED
- Without bus coupling unit
- Connection to push-button universal possible



KNX push-button standard 1-gang

ETS product family: Push-button
Product type: 1-gang push-button

The device is compatible with KNX Data Secure. KNX Data Secure offers protection against manipulation in building automation. A dedicated application is required for secure operation. Additional information is available at: KNX Secure

A 10711 ST



KNX push-button universal 1-gang

ETS product family: Push-button
Product type: 1-gang push-button

The device is compatible with KNX Data Secure. KNX Data Secure offers protection against manipulation in building automation. A dedicated application is required for secure operation. Additional information is available at: KNX Secure

A 10911 ST



KNX push-button extension 1-gang

A 10911 TE



1-gang rocker

for KNX push-button 1-gang
ref.-no.: A 10711 ST, A 10911 ST, A 10911 TE

Duroplastic (scratch-proof) glossy

ivory **AS 101**
white **AS 101 WW**



1-gang rocker with arrow symbols

for KNX push-button 1-gang
ref.-no.: A 10711 ST, A 10911 ST, A 10911 TE

Duroplastic (scratch-proof) glossy

ivory **AS 101 P**
white **AS 101 P WW**



1-gang rocker with lens

for KNX push-button 1-gang ref.-no.: A 10711 ST, A 10911 ST

Duroplastic (scratch-proof) glossy

ivory **AS 101 KO5**
white **AS 101 KO5 WW**










1-gang rocker with lens and arrow symbols






for KNX push-button 1-gang ref.-no.: A 10711 ST, A 10911 ST

Duroplastic (scratch-proof) glossy

ivory **AS 101 KO5P**
white **AS 101 KO5P WW**







	Ref.-no.
	<p>KNX push-button standard 2-gang ETS product family: Push-button Product type: 2-gang push-button</p> <p>The device is compatible with KNX Data Secure. KNX Data Secure offers protection against manipulation in building automation. A dedicated application is required for secure operation. Additional information is available at: KNX Secure A 10721 ST</p>
	<p>KNX push-button universal 2-gang ETS product family: Push-button Product type: 2-gang push-button</p> <p>The device is compatible with KNX Data Secure. KNX Data Secure offers protection against manipulation in building automation. A dedicated application is required for secure operation. Additional information is available at: KNX Secure A 10921 ST</p>
	<p>KNX push-button extension 2-gang A 10921 TE</p>
	<p>2-gang rocker for KNX push-button 2-gang ref.-no.: A 10721 ST, A 10921 ST, A 10921 TE Duroplastic (scratch-proof) glossy ivory AS 102 white AS 102 WW</p>
	<p>2-gang rocker with arrow symbols for KNX push-button 2-gang ref.-no.: A 10721 ST, A 10921 ST, A 10921 TE Duroplastic (scratch-proof) glossy ivory AS 102 P white AS 102 P WW</p>
	<p>2-gang rocker with lens for KNX push-button 2-gang ref.-no.: A 10721 ST, A 10921 ST Duroplastic (scratch-proof) glossy ivory AS 102 KO5 white AS 102 KO5 WW</p>
	<p>2-gang rocker with lens and arrow symbols for KNX push-button 2-gang ref.-no.: A 10721 ST, A 10921 ST Duroplastic (scratch-proof) glossy ivory AS 102 KO5P white AS 102 KO5P WW</p>

	Ref.-no.
	<p>KNX push-button standard 1-gang ETS product family: Push-button Product type: 1-gang push-button</p> <p>The device is compatible with KNX Data Secure. KNX Data Secure offers protection against manipulation in building automation. A dedicated application is required for secure operation. Additional information is available at: KNX Secure A 10711 ST</p>
	<p>KNX push-button universal 1-gang ETS product family: Push-button Product type: 1-gang push-button</p> <p>The device is compatible with KNX Data Secure. KNX Data Secure offers protection against manipulation in building automation. A dedicated application is required for secure operation. Additional information is available at: KNX Secure A 10911 ST</p>
	<p>KNX push-button extension 1-gang A 10911 TE</p>
	<p>1-gang rocker for KNX push-button 1-gang ref.-no.: A 10711 ST, A 10911 ST, A 10911 TE Duroplastic (scratch-proof) glossy white A 101 WW black A 101 SW Duroplastic lacquered aluminium A 101 AL champagne A 101 CH mocha A 101 MO Thermoplastic (breakproof) high-gloss white A 101 BF WW black A 101 BF SW matt lacquered matt snow white A 101 BF WWM matt graphite black A 101 BF SWM matt anthracite A 101 BF ANM</p>
	<p>1-gang rocker with arrow symbols for KNX push-button 1-gang ref.-no.: A 10711 ST, A 10911 ST, A 10911 TE Duroplastic (scratch-proof) glossy white A 101 P WW black A 101 P SW Duroplastic lacquered aluminium A 101 P AL champagne A 101 P CH mocha A 101 P MO Thermoplastic (breakproof) high-gloss white A 101 P BF WW black A 101 P BF SW matt lacquered matt snow white A 101 P BF WWM matt graphite black A 101 P BF SWM matt anthracite A 101 P BF ANM</p>



	Ref.-no.
	<p>1-gang rocker with lens for KNX push-button 1-gang ref.-no.: A 10711 ST, A 10911 ST</p> <p>Duroplastic (scratch-proof) glossy white A 101 KO5 WW black A 101 KO5 SW</p> <p>Duroplastic lacquered aluminium A 101 KO5 AL champagne A 101 KO5 CH mocha A 101 KO5 MO</p> <p>Thermoplastic (breakproof) high-gloss white A 101 KO5 BF WW black A 101 KO5 BF SW</p> <p>matt lacquered matt snow white A 101 KO5 BF WWM matt graphite black A 101 KO5 BF SWM matt anthracite A 101 KO5 BF ANM</p>
	<p>1-gang rocker with lens and arrow symbols for KNX push-button 1-gang ref.-no.: A 10711 ST, A 10911 ST</p> <p>Duroplastic (scratch-proof) glossy white A 101 KO5P WW black A 101 KO5P SW</p> <p>Duroplastic lacquered aluminium A 101 KO5P AL champagne A 101 KO5P CH mocha A 101 KO5P MO</p> <p>Thermoplastic (breakproof) high-gloss white A 101 KO5P BF WW black A 101 KO5P BF SW</p> <p>matt lacquered matt snow white A 101 KO5P BF WWM matt graphite black A 101 KO5P BF SWM matt anthracite A 101 KO5P BF ANM</p>
	<p>KNX push-button standard 2-gang ETS product family: Push-button Product type: 2-gang push-button</p>
	<p>KNX push-button universal 2-gang ETS product family: Push-button Product type: 2-gang push-button</p>
	<p>KNX push-button extension 2-gang A 10921 TE</p>
<p>The device is compatible with KNX Data Secure. KNX Data Secure offers protection against manipulation in building automation. A dedicated application is required for secure operation. Additional information is available at: KNX Secure A 10721 ST</p>	

	Ref.-no.
	<p>2-gang rocker for KNX push-button 2-gang ref.-no.: A 10721 ST, A 10921 ST, A 10921 TE</p> <p>Duroplastic (scratch-proof) glossy white A 102 WW black A 102 SW</p> <p>Duroplastic lacquered aluminium A 102 AL champagne A 102 CH mocha A 102 MO</p> <p>Thermoplastic (breakproof) high-gloss white A 102 BF WW black A 102 BF SW</p> <p>matt lacquered matt snow white A 102 BF WWM matt graphite black A 102 BF SWM matt anthracite A 102 BF ANM</p>
	<p>2-gang rocker with arrow symbols for KNX push-button 2-gang ref.-no.: A 10721 ST, A 10921 ST, A 10921 TE</p> <p>Duroplastic (scratch-proof) glossy white A 102 P WW black A 102 P SW</p> <p>Duroplastic lacquered aluminium A 102 P AL champagne A 102 P CH mocha A 102 P MO</p> <p>Thermoplastic (breakproof) high-gloss white A 102 P BF WW black A 102 P BF SW</p> <p>matt lacquered matt snow white A 102 P BF WWM matt graphite black A 102 P BF SWM matt anthracite A 102 P BF ANM</p>
	<p>2-gang rocker with lens for KNX push-button 2-gang ref.-no.: A 10721 ST, A 10921 ST</p> <p>Duroplastic (scratch-proof) glossy white A 102 KO5 WW black A 102 KO5 SW</p> <p>Duroplastic lacquered aluminium A 102 KO5 AL champagne A 102 KO5 CH mocha A 102 KO5 MO</p> <p>Thermoplastic (breakproof) high-gloss white A 102 KO5 BF WW black A 102 KO5 BF SW</p> <p>matt lacquered matt snow white A 102 KO5 BF WWM matt graphite black A 102 KO5 BF SWM matt anthracite A 102 KO5 BF ANM</p>
	<p>2-gang rocker with lens and arrow symbols for KNX push-button 2-gang ref.-no.: A 10721 ST, A 10921 ST</p> <p>Duroplastic (scratch-proof) glossy white A 102 KO5P WW black A 102 KO5P SW</p> <p>Duroplastic lacquered aluminium A 102 KO5P AL champagne A 102 KO5P CH mocha A 102 KO5P MO</p> <p>Thermoplastic (breakproof) high-gloss white A 102 KO5P BF WW black A 102 KO5P BF SW</p> <p>matt lacquered matt snow white A 102 KO5P BF WWM matt graphite black A 102 KO5P BF SWM matt anthracite A 102 KO5P BF ANM</p>



Ref.-no.

Ref.-no.



KNX push-button standard 1-gang

ETS product family: Push-button
Product type: 1-gang push-button
The device is compatible with KNX Data Secure. KNX Data Secure offers protection against manipulation in building automation. A dedicated application is required for secure operation. Additional information is available at: KNX Secure
LS CD 10711 ST



KNX push-button universal 1-gang

ETS product family: Push-button
Product type: 1-gang push-button
The device is compatible with KNX Data Secure. KNX Data Secure offers protection against manipulation in building automation. A dedicated application is required for secure operation. Additional information is available at: KNX Secure
LS CD 10911 ST



KNX push-button extension 1-gang

LS CD 10911 TE

For KNX push-button 1-gang ref.-no.: LS CD 10711 ST, LS CD 10911 ST, LS CD 10911 TE

1-gang rocker

Duroplastic (scratch-proof) glossy

ivory	CD 101
white	CD 101 WW
brown	CD 101 BR
grey	CD 101 GR
light grey	CD 101 LG
black	CD 101 SW

metal versions (anodized aluminium)

gold-bronze	CD 101 GB
platinum	CD 101 PT

1-gang rocker with arrow symbols

Duroplastic (scratch-proof) glossy

ivory	CD 101 P
white	CD 101 P WW
brown	CD 101 P BR
grey	CD 101 P GR
light grey	CD 101 P LG
black	CD 101 P SW

metal versions (anodized aluminium)

gold-bronze	CD 101 P GB
platinum	CD 101 P PT

For KNX push-button 1-gang ref.-no.: LS CD 10711 ST, LS CD 10911 ST

1-gang rocker with lens

Duroplastic (scratch-proof) glossy

ivory	CD 101 K05
white	CD 101 K05 WW
brown	CD 101 K05 BR
grey	CD 101 K05 GR
light grey	CD 101 K05 LG
black	CD 101 K05 SW

metal versions (anodized aluminium)

gold-bronze	CD 101 K05 GB
platinum	CD 101 K05 PT

1-gang rocker with lens and arrow symbols

Duroplastic (scratch-proof) glossy

ivory	CD 101 K05P
white	CD 101 K05P WW
brown	CD 101 K05P BR
grey	CD 101 K05P GR
light grey	CD 101 K05P LG
black	CD 101 K05P SW

metal versions (anodized aluminium)

gold-bronze	CD 101 K05P GB
platinum	CD 101 K05P PT



KNX push-button standard 2-gang

ETS product family: Push-button
Product type: 2-gang push-button
The device is compatible with KNX Data Secure. KNX Data Secure offers protection against manipulation in building automation. A dedicated application is required for secure operation. Additional information is available at: KNX Secure
LS CD 10721 ST



KNX push-button universal 2-gang

ETS product family: Push-button
Product type: 2-gang push-button
The device is compatible with KNX Data Secure. KNX Data Secure offers protection against manipulation in building automation. A dedicated application is required for secure operation. Additional information is available at: KNX Secure
LS CD 10921 ST



KNX push-button extension 2-gang

LS CD 10921 TE

For KNX push-button 2-gang ref.-no.: LS CD 10721 ST, LS CD 10921 ST, LS CD 10921 TE

2-gang rocker

Duroplastic (scratch-proof) glossy

ivory	CD 102
white	CD 102 WW
brown	CD 102 BR
grey	CD 102 GR
light grey	CD 102 LG
black	CD 102 SW

metal colours (duroplastic lacquered)

gold-bronze	CD 102 GB
platinum	CD 102 PT

2-gang rocker with arrow symbols

Duroplastic (scratch-proof) glossy

ivory	CD 102 P
white	CD 102 P WW
brown	CD 102 P BR
grey	CD 102 P GR
light grey	CD 102 P LG
black	CD 102 P SW

metal colours (duroplastic lacquered)

gold-bronze	CD 102 P GB
platinum	CD 102 P PT

for KNX push-button 2-gang ref.-no.: LS CD 10721 ST, LS CD 10921 ST

2-gang rocker with lens

Duroplastic (scratch-proof) glossy

ivory	CD 102 K05
white	CD 102 K05 WW
brown	CD 102 K05 BR
grey	CD 102 K05 GR
light grey	CD 102 K05 LG
black	CD 102 K05 SW

metal colours (duroplastic lacquered)

gold-bronze	CD 102 K05 GB
platinum	CD 102 K05 PT

2-gang rocker with lens and arrow symbols






Duroplastic (scratch-proof) glossy

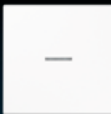

ivory	CD 102 K05P
white	CD 102 K05P WW
brown	CD 102 K05P BR
grey	CD 102 K05P GR
light grey	CD 102 K05P LG
black	CD 102 K05P SW

metal colours (duroplastic lacquered)

gold-bronze	CD 102 K05P GB
platinum	CD 102 K05P PT



	Ref.-no.
	<p>KNX push-button standard 1-gang ETS product family: Push-button Product type: 1-gang push-button</p> <p>The device is compatible with KNX Data Secure. KNX Data Secure offers protection against manipulation in building automation. A dedicated application is required for secure operation. Additional information is available at: KNX Secure LS CD 10711 ST</p>
	<p>KNX push-button universal 1-gang ETS product family: Push-button Product type: 1-gang push-button</p> <p>The device is compatible with KNX Data Secure. KNX Data Secure offers protection against manipulation in building automation. A dedicated application is required for secure operation. Additional information is available at: KNX Secure LS CD 10911 ST</p>
	<p>KNX push-button extension 1-gang LS CD 10911 TE</p>
	<p>1-gang rocker for KNX push-button 1-gang ref.-no.: LS CD 10711 ST, LS CD 10911 ST, LS CD 10911 TE</p> <p>Duroplastic (scratch-proof) glossy ivory LS 101 white LS 101 WW light grey LS 101 LG black LS 101 SW</p> <p>matt lacquered matt snow white LS 101 WWM matt graphite black LS 101 SWM</p> <p>metal versions aluminium AL 101 stainless steel ES 101 anthracite (aluminium lacquered) AL 101 AN dark (aluminium lacquered) AL 101 D chrome GCR 101 gold-coloured GO 101 classic brass ME 101 C antique brass ME 101 AT</p>
	<p>1-gang rocker with arrow symbols for KNX push-button 1-gang ref.-no.: LS CD 10711 ST, LS CD 10911 ST, LS CD 10911 TE</p> <p>Duroplastic (scratch-proof) glossy ivory LS 101 P white LS 101 P WW light grey LS 101 P LG black LS 101 P SW</p> <p>matt lacquered matt snow white LS 101 P WWM matt graphite black LS 101 P SWM</p> <p>metal versions aluminium AL 101 P stainless steel ES 101 P anthracite (aluminium lacquered) AL 101 P AN dark (aluminium lacquered) AL 101 P D chrome GCR 101 P gold-coloured GO 101 P classic brass ME 101 P C antique brass ME 101 P AT</p>

	Ref.-no.
	<p>1-gang rocker with lens for KNX push-button 1-gang ref.-no.: LS CD 10711 ST, LS CD 10911 ST</p> <p>Duroplastic (scratch-proof) glossy ivory LS 101 KO5 white LS 101 KO5 WW light grey LS 101 KO5 LG black LS 101 KO5 SW</p> <p>matt lacquered matt snow white LS 101 KO5 WWM matt graphite black LS 101 KO5 SWM</p> <p>metal versions aluminium AL 101 KO5 stainless steel ES 101 KO5 anthracite (aluminium lacquered) AL 101 KO5 AN dark (aluminium lacquered) AL 101 KO5 D chrome GCR 101 KO5 gold-coloured GO 101 KO5 classic brass ME 101 KO5 C antique brass ME 101 KO5 AT</p>
	<p>1-gang rocker with lens and arrow symbols for KNX push-button 1-gang ref.-no.: LS CD 10711 ST, LS CD 10911 ST</p> <p>Duroplastic (scratch-proof) glossy ivory LS 101 KO5P white LS 101 KO5P WW light grey LS 101 KO5P LG black LS 101 KO5P SW</p> <p>matt lacquered matt snow white LS 101 KO5P WWM matt graphite black LS 101 KO5P SWM</p> <p>metal versions aluminium AL 101 KO5P stainless steel ES 101 KO5P anthracite (aluminium lacquered) AL 101 KO5P AN dark (aluminium lacquered) AL 101 KO5P D chrome GCR 101 KO5P gold-coloured GO 101 KO5P classic brass ME 101 KO5P C antique brass ME 101 KO5P AT</p>



Ref.-no.



KNX push-button standard 2-gang

ETS product family: Push-button
Product type: 2-gang push-button

The device is compatible with KNX Data Secure. KNX Data Secure offers protection against manipulation in building automation. A dedicated application is required for secure operation. Additional information is available at: KNX Secure
LS CD 10721 ST



KNX push-button universal 2-gang

ETS product family: Push-button
Product type: 2-gang push-button

The device is compatible with KNX Data Secure. KNX Data Secure offers protection against manipulation in building automation. A dedicated application is required for secure operation. Additional information is available at: KNX Secure
LS CD 10921 ST



KNX push-button extension 2-gang

LS CD 10921 TE



2-gang rocker

for KNX push-button 2-gang ref.-no.: LS CD 10721 ST, LS CD 10921 ST, LS CD 10921 TE

Duroplastic (scratch-proof) glossy

ivory **LS 102**
white **LS 102 WW**
light grey **LS 102 LG**
black **LS 102 SW**

matt lacquered
matt snow white **LS 102 WWM**
matt graphite black **LS 102 SWM**

metal versions

aluminium **AL 102**
stainless steel **ES 102**
anthracite (aluminium lacquered) **AL 102 AN**
dark (aluminium lacquered) **AL 102 D**
chrome **GCR 102**
gold-coloured **GO 102**
classic brass **ME 102 C**
antique brass **ME 102 AT**



2-gang rocker with arrow symbols

for KNX push-button 2-gang ref.-no.: LS CD 10721 ST, LS CD 10921 ST, LS CD 10921 TE

Duroplastic (scratch-proof) glossy

ivory **LS 102 P**
white **LS 102 P WW**
light grey **LS 102 P LG**
black **LS 102 P SW**

matt lacquered
matt snow white **LS 102 P WWM**
matt graphite black **LS 102 P SWM**

metal versions

aluminium **AL 102 P**
stainless steel **ES 102 P**
anthracite (aluminium lacquered) **AL 102 P AN**
dark (aluminium lacquered) **AL 102 P D**
chrome **GCR 102 P**
gold-coloured **GO 102 P**
classic brass **ME 102 P C**
antique brass **ME 102 P AT**

Ref.-no.



2-gang rocker with lens

for KNX push-button 2-gang
ref.-no.: LS CD 10721 ST, LS CD 10921 ST

Duroplastic (scratch-proof) glossy

ivory **LS 102 KO5**
white **LS 102 KO5 WW**
light grey **LS 102 KO5 LG**
black **LS 102 KO5 SW**

matt lacquered
matt snow white **LS 102 KO5 WWM**
matt graphite black **LS 102 KO5 SWM**

metal versions

aluminium **AL 102 KO5**
stainless steel **ES 102 KO5**
anthracite (aluminium lacquered) **AL 102 KO5 AN**
dark (aluminium lacquered) **AL 102 KO5 D**
chrome **GCR 102 KO5**
gold-coloured **GO 102 KO5**
classic brass **ME 102 KO5 C**
antique brass **ME 102 KO5 AT**



2-gang rocker with lens and arrow symbols

for KNX push-button 2-gang
ref.-no.: LS CD 10721 ST, LS CD 10921 ST

Duroplastic (scratch-proof) glossy







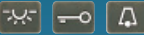


ivory **LS 102 KO5P**
white **LS 102 KO5P WW**
light grey **LS 102 KO5P LG**
black **LS 102 KO5P SW**

matt lacquered
matt snow white **LS 102 KO5P WWM**
matt graphite black **LS 102 KO5P SWM**









metal versions

aluminium **AL 102 KO5P**
stainless steel **ES 102 KO5P**
anthracite (aluminium lacquered) **AL 102 KO5P AN**
dark (aluminium lacquered) **AL 102 KO5P D**
chrome **GCR 102 KO5P**
gold-coloured **GO 102 KO5P**
classic brass **ME 102 KO5P C**
antique brass **ME 102 KO5P AT**

KNX Push-button BCU

	Ref.-no.
	WG 800 KNX push-button BCU, neutral position Function: switching, dimming, shutter control LED: always ON, always OFF, status indication KNX medium: TP 256 1-gang 8471.02 LED W The status LED serves as an orientation light or status indicator and can be parameterised.
	KNX push-button BCU, switch position Function: switching, dimming LED: always ON, always OFF KNX medium: TP 256 1-gang 8471.01 LED W The status LED serves as an orientation light or status indicator and can be parameterised.
	1-gang rocker with lens for 1-gang push-button BCU neutral position ref.-no.: 8471.02 LED W switch position ref.-no.: 8471.01 LED W 800 NT
	1-gang rocker with lens and arrow symbols for 1-gang push-button BCU neutral position ref.-no.: 8471.02 LED W 800 P
	Rocker with inscription field for 1-gang push-button BCU neutral position ref.-no.: 8471.02 LED W switch position ref.-no.: 8471.01 LED W with inscription field 22 x 48 mm 800 NA
	1-gang rocker with big lens for 1-gang push-button BCU neutral position ref.-no.: 8471.02 LED W switch position ref.-no.: 8471.01 LED W with red insert (ref.-no.: 33 NR) 800 KO
	Insert with symbol, opaque for switches with indicator light and push-buttons in design range WG 800 anthracite
	symbol light 33 AN L symbol bell 33 AN K symbol door 33 AN T
	Insert without symbol, opaque for switches with indicator light and push-buttons in design range WG 800 anthracite 33 AN N
	Insert without symbol, translucent for switches with indicator light and push-buttons in design range WG 800 green 33 GN transparent 33 KLAR red 33 NR

KNX Push-button BCU Rotary sensor

	Ref.-no.
	KNX push-button BCU, neutral position Function: switching, dimming, shutter control LED: always ON, always OFF, status indication KNX medium: TP 256 2-gang 8472.02 LED W The status LED serves as an orientation light or status indicator and can be parameterised.
	KNX push-button BCU, switch position Function: switching, dimming, shutter control LED: always ON, always OFF KNX medium: TP 256 2-gang 8472.01 LED W The status LED serves as an orientation light or status indicator and can be parameterised.
	2-gang rocker with lens for 2-gang push-button BCU neutral position ref.-no.: 8472.02 LED W switch position ref.-no.: 8472.01 LED W 805 NT
	2-gang rocker with lens and arrow symbols for 2-gang push-button BCU switch position ref.-no.: 8472.01 LED W 805 P
	2-gang rocker with lens and arrow symbols for 2-gang push-button BCU neutral position ref.-no.: 8472.02 LED W 805 MP
	KNX rotary sensor with integrated BCU with integrated push-button interface 3-gang with push-button function and acoustic signal Function: switching, dimming, shutter control, value transmitter, scene extension DS 4092 TS
	Centre plate with knob and lens for KNX rotary sensor ref.-no.: DS 4092 TS for AS and A ranges
	Duroplastic (scratch-proof) glossy ivory <input type="checkbox"/> A 1540 KO5 white <input type="checkbox"/> A 1540 KO5 WW black <input type="checkbox"/> A 1540 KO5 SW
	Duroplastic lacquered aluminium <input type="checkbox"/> A 1540 KO5 AL champagne <input type="checkbox"/> A 1540 KO5 CH mocha <input type="checkbox"/> A 1540 KO5 MO
	Thermoplastic (breakproof) high-gloss white <input type="checkbox"/> A 1540 BF KO5 WW black <input type="checkbox"/> A 1540 BF KO5 SW
	matt lacquered matt snow white <input type="checkbox"/> A 1540 BF KO5 WWM matt graphite black <input type="checkbox"/> A 1540 BF KO5 SWM matt anthracite <input type="checkbox"/> A 1540 BF KO5 ANM
	for CD range Duroplastic (scratch-proof) glossy ivory <input type="checkbox"/> CD 1540 KO5 white <input type="checkbox"/> CD 1540 KO5 WW grey <input type="checkbox"/> CD 1540 KO5 GR light grey <input type="checkbox"/> CD 1540 KO5 LG black <input type="checkbox"/> CD 1540 KO5 SW

KNX Presence detector



Ref.-no.



Centre plate with knob and lens

for KNX rotary sensor ref.-no.: DS 4092 TS
for LS range

Duroplastic (scratch-proof) glossy

- ivory  **LS 1940 KO5**
- white  **LS 1940 KO5 WW**
- light grey  **LS 1940 KO5 LG**
- black **LS 1940 KO5 SW**

matt lacquered

- matt snow white **LS 1940 KO5 WWM**
- matt graphite black **LS 1940 KO5 SWM**

metal versions

- aluminium  **AL 1940 KO5**
- stainless steel  **ES 1940 KO5**
- anthracite (aluminium lacquered) **AL 1940 KO5 AN**
- dark (aluminium lacquered) **AL 1940 KO5 D**
- chrome **GCR 1940 KO5**
- gold-coloured **GO 1940 KO5**
- classic brass  **ME 1940 KO5 C**
- antique brass **ME 1940 KO5 AT**



KNX presence detector mini with integrated BCU

New in V 02: with temperature measurement (only "Universal" version)

ETS product family: Physical sensors
Product type: Movement

Standard

- white  **3361 M WW**

Universal

- white  **3361-1 M WW**

Product characteristics

- Integrated bus coupling unit
- 3 PIR sensors
- Detection field 360°
- Integrated brightness sensor
- Deployed as presence detector, motion detector, or for alert operation
- Output functions: Switching, staircase function, switching with forced position, value transmitter, light scene extension, operating mode setting for room temperature controller
- Extension of the detection area by way of operating several devices as main unit or extension unit
- Adjuster for manual adjustment of sensitivity
- Status LED: Flashes during motion detection; depending on programming in normal operation or only during the walking test mode

Additional characteristics of "Universal" version:

- Manual operation with IR remote control possible (ref.-no.: KNX PM FB IR)
- 5 function blocks for motion detection each with 2 outputs
- Function blocks switchable, e.g. for day/night operation
- PIR sensors can be evaluated separately
- Brightness sensor function with 3 limiting values
- Light control with max. 3 channels, setpoint shift in operation, separate configuration of dimming-up, control and dimming-down phase
- Light control can be combined with presence detector function
- Temperature measurement

IR remote control

for KNX presence detector mini universal ref.-no.: 3361-1 M ..

KNX PM FB IR

Battery operation with one included lithium button cell (CR 2025)



KNX Brightness controller


Ref.-no.



KNX brightness controller mini with integrated BCU

ETS product family: Physical sensors

Product type: Brightness

white  **2096 LUX**

Product characteristics

- Asymmetrical measuring surface
- Integrated bus coupling unit
- Integrated brightness sensor
- Brightness sensor function with 3 limiting values
- Brightness limiting values (3 channels) with output functions switching, value transmitter and scene extension
- Light control with max. 3 channels, setpoint shift in operation, separate configuration of dimming-up, control and dimming-down phase
- On-off control possible for switch actuators
- Power supply via bus voltage

Flush mounting set

for ceiling installation of KNX presence detector mini (ref.-no.: 3361 M WW, 3361-1 M WW) and KNX brightness controller mini (ref.-no.: 2096 LUX)

Installation in flush box according to EN 60670-1

Design ring Ø inside: 35.6 mm, Ø outside: 80 mm

Profile height design ring: 3 mm

Profile height lens: 6.6 mm

white

PMM-UP-SET-WW



Surface mounting set

for ceiling installation of KNX presence detector mini (ref.-no.: 3361 M WW, 3361-1 M WW) and KNX brightness controller mini (ref.-no.: 2096 LUX)

Dimensions (Ø x H): 80 / 83 x 49 mm (incl. design ring)





Design ring Ø inside: 35.6 mm, Ø outside: 80 mm

white



PMM-AP-SET-WW









KNX Presence detector

	Ref.-no.								
	<p>KNX presence detector with integrated BCU ETS product family: Physical sensors Product type: Movement</p> <p>Standard</p> <table style="width: 100%;"> <tr> <td>white</td> <td style="text-align: right;">3361 WW</td> </tr> <tr> <td>aluminium (lacquered)</td> <td style="text-align: right;">3361 AL</td> </tr> </table> <p>Universal</p> <table style="width: 100%;"> <tr> <td>white</td> <td style="text-align: right;">3361-1 WW</td> </tr> <tr> <td>aluminium (lacquered)</td> <td style="text-align: right;">3361-1 AL</td> </tr> </table> <p>Product characteristics</p> <ul style="list-style-type: none"> • Integrated bus coupling unit • 3 PIR sensors • Detection field 360° • Integrated brightness sensor • Deployed as presence detector, motion detector, or for alert operation • Output functions: Switching, staircase function, switching with forced position, value transmitter, light scene extension, operating mode setting for room temperature controller • Extension of the detection area by way of operating several devices as main unit or extension unit • Adjuster for manual adjustment of sensitivity • Status LED: Flashes during motion detection; depending on programming in normal operation or only during the walking test mode <p>Additional characteristics of "Universal" version:</p> <ul style="list-style-type: none"> • Manual operation with IR remote control possible (ref.-no.: KNX PM FB IR) • 5 function blocks for motion detection each with 2 outputs • Function blocks switchable, e.g. for day/night operation • PIR sensors can be evaluated separately • Brightness sensor function with 3 limiting values • Light control with max. 3 channels, setpoint shift in operation, separate configuration of dimming-up, control and dimming-down phase • Light control can be combined with presence detector function <p>IR remote control for KNX presence detector universal ref.-no.: 3361-1 .. KNX PM FB IR Battery operation with one included lithium button cell (CR 2025)</p> <div style="text-align: center;">  </div> <p>Protection cage for KNX presence detector ref.-no.: 3361.. white SK 180-90 WW</p> <div style="text-align: center;">  </div> <p>Surface-mounted housing for ceiling installation (surface-mounted) of KNX presence detectors ref. no.: 3361 WW, 3361 AL, 3361-1 WW, 3361-1 AL white PM-KAPPE-1 aluminium (lacquered) PM-KAPPE AL-1</p> <div style="text-align: center;">  </div> <p>Technical data Dimensions (Ø x H): 103 x 19 mm</p>	white	3361 WW	aluminium (lacquered)	3361 AL	white	3361-1 WW	aluminium (lacquered)	3361-1 AL
white	3361 WW								
aluminium (lacquered)	3361 AL								
white	3361-1 WW								
aluminium (lacquered)	3361-1 AL								






KNX Automatic switches











































































	Ref.-no.																																																				
	<p>KNX bus coupling unit 3 screw fixing only, without claws 2073 U</p> <ul style="list-style-type: none"> • Coupling of automatic switches (ref.-no.: ..3181.., ..3281..) to KNX systems • Installation in flush box according to EN 60670-1 																																																				
	<p>KNX automatic switch 1.1 m Standard for bus coupling unit 3 ref.-no.: 2073 U ETS product family: Physical sensors Product type: Movement</p> <p>for AS and A ranges</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr> <td>ivory</td> <td style="text-align: right;">A 3181</td> </tr> <tr> <td>white</td> <td style="text-align: right;">A 3181 WW</td> </tr> <tr> <td>black</td> <td style="text-align: right;">A 3181 SW</td> </tr> </table> <p>Thermoplastic (breakproof) lacquered</p> <table style="width: 100%;"> <tr> <td>aluminium</td> <td style="text-align: right;">A 3181 AL</td> </tr> <tr> <td>champagne</td> <td style="text-align: right;">A 3181 CH</td> </tr> <tr> <td>mocha</td> <td style="text-align: right;">A 3181 MO</td> </tr> </table> <p>matt lacquered</p> <table style="width: 100%;"> <tr> <td>matt snow white</td> <td style="text-align: right;">A 3181 WWM</td> </tr> <tr> <td>matt graphite black</td> <td style="text-align: right;">A 3181 SWM</td> </tr> <tr> <td>matt anthracite</td> <td style="text-align: right;">A 3181 ANM</td> </tr> </table> <p>for CD range</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr> <td>ivory</td> <td style="text-align: right;">CD 3181</td> </tr> <tr> <td>white</td> <td style="text-align: right;">CD 3181 WW</td> </tr> <tr> <td>grey</td> <td style="text-align: right;">CD 3181 GR</td> </tr> <tr> <td>light grey</td> <td style="text-align: right;">CD 3181 LG</td> </tr> <tr> <td>black</td> <td style="text-align: right;">CD 3181 SW</td> </tr> </table> <p>for LS range</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr> <td>ivory</td> <td style="text-align: right;">LS 3181</td> </tr> <tr> <td>white</td> <td style="text-align: right;">LS 3181 WW</td> </tr> <tr> <td>light grey</td> <td style="text-align: right;">LS 3181 LG</td> </tr> <tr> <td>black</td> <td style="text-align: right;">LS 3181 SW</td> </tr> </table> <p>matt lacquered</p> <table style="width: 100%;"> <tr> <td>matt snow white</td> <td style="text-align: right;">LS 3181 WWM</td> </tr> <tr> <td>matt graphite black</td> <td style="text-align: right;">LS 3181 SWM</td> </tr> </table> <p>metal colours (thermoplastic lacquered)</p> <table style="width: 100%;"> <tr> <td>aluminium (lacquered)</td> <td style="text-align: right;">AL 3181</td> </tr> <tr> <td>stainless steel (lacquered)</td> <td style="text-align: right;">ES 3181</td> </tr> <tr> <td>anthracite (lacquered)</td> <td style="text-align: right;">AL 3181 AN</td> </tr> <tr> <td>dark (lacquered)</td> <td style="text-align: right;">AL 3181 D</td> </tr> <tr> <td>classic brass (lacquered)</td> <td style="text-align: right;">ME 3181 C</td> </tr> <tr> <td>antique brass (lacquered)</td> <td style="text-align: right;">ME 3181 AT</td> </tr> </table>	ivory	A 3181	white	A 3181 WW	black	A 3181 SW	aluminium	A 3181 AL	champagne	A 3181 CH	mocha	A 3181 MO	matt snow white	A 3181 WWM	matt graphite black	A 3181 SWM	matt anthracite	A 3181 ANM	ivory	CD 3181	white	CD 3181 WW	grey	CD 3181 GR	light grey	CD 3181 LG	black	CD 3181 SW	ivory	LS 3181	white	LS 3181 WW	light grey	LS 3181 LG	black	LS 3181 SW	matt snow white	LS 3181 WWM	matt graphite black	LS 3181 SWM	aluminium (lacquered)	AL 3181	stainless steel (lacquered)	ES 3181	anthracite (lacquered)	AL 3181 AN	dark (lacquered)	AL 3181 D	classic brass (lacquered)	ME 3181 C	antique brass (lacquered)	ME 3181 AT
ivory	A 3181																																																				
white	A 3181 WW																																																				
black	A 3181 SW																																																				
aluminium	A 3181 AL																																																				
champagne	A 3181 CH																																																				
mocha	A 3181 MO																																																				
matt snow white	A 3181 WWM																																																				
matt graphite black	A 3181 SWM																																																				
matt anthracite	A 3181 ANM																																																				
ivory	CD 3181																																																				
white	CD 3181 WW																																																				
grey	CD 3181 GR																																																				
light grey	CD 3181 LG																																																				
black	CD 3181 SW																																																				
ivory	LS 3181																																																				
white	LS 3181 WW																																																				
light grey	LS 3181 LG																																																				
black	LS 3181 SW																																																				
matt snow white	LS 3181 WWM																																																				
matt graphite black	LS 3181 SWM																																																				
aluminium (lacquered)	AL 3181																																																				
stainless steel (lacquered)	ES 3181																																																				
anthracite (lacquered)	AL 3181 AN																																																				
dark (lacquered)	AL 3181 D																																																				
classic brass (lacquered)	ME 3181 C																																																				
antique brass (lacquered)	ME 3181 AT																																																				




KNX Automatic switches





	Ref.-no.																																																				
	<p>KNX automatic switch 1.1 m Universal for bus coupling unit 3 ref.-no.: 2073 U ETS product family: Physical sensors Product type: Movement</p> <p>Additional characteristics of "Universal" version:</p> <ul style="list-style-type: none"> • Manual operation with IR remote control possible (ref.-no.: KNX PM FB IR) • 5 function blocks for motion detection each with 2 outputs • Function blocks switchable, e.g. for day/night operation • Brightness sensor function with 3 limiting values • Alarm message in case the device is removed from the bus coupling unit • Temperature measurement <p>for AS and A ranges</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr><td>ivory</td><td style="text-align: right;">A 3181-1</td></tr> <tr><td>white</td><td style="text-align: right;">A 3181-1 WW</td></tr> <tr><td>black</td><td style="text-align: right;">A 3181-1 SW</td></tr> </table> <p>Thermoplastic (breakproof) lacquered</p> <table style="width: 100%;"> <tr><td>aluminium</td><td style="text-align: right;">A 3181-1 AL</td></tr> <tr><td>champagne</td><td style="text-align: right;">A 3181-1 CH</td></tr> <tr><td>mocha</td><td style="text-align: right;">A 3181-1 MO</td></tr> </table> <p>matt lacquered</p> <table style="width: 100%;"> <tr><td>matt snow white</td><td style="text-align: right;">A 3181-1 WWM</td></tr> <tr><td>matt graphite black</td><td style="text-align: right;">A 3181-1 SWM</td></tr> <tr><td>matt anthracite</td><td style="text-align: right;">A 3181-1 ANM</td></tr> </table> <p>for CD range</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr><td>ivory</td><td style="text-align: right;">CD 3181-1</td></tr> <tr><td>white</td><td style="text-align: right;">CD 3181-1 WW</td></tr> <tr><td>grey</td><td style="text-align: right;">CD 3181-1 GR</td></tr> <tr><td>light grey</td><td style="text-align: right;">CD 3181-1 LG</td></tr> <tr><td>black</td><td style="text-align: right;">CD 3181-1 SW</td></tr> </table> <p>for LS range</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr><td>ivory</td><td style="text-align: right;">LS 3181-1</td></tr> <tr><td>white</td><td style="text-align: right;">LS 3181-1 WW</td></tr> <tr><td>light grey</td><td style="text-align: right;">LS 3181-1 LG</td></tr> <tr><td>black</td><td style="text-align: right;">LS 3181-1 SW</td></tr> </table> <p>matt lacquered</p> <table style="width: 100%;"> <tr><td>matt snow white</td><td style="text-align: right;">LS 3181-1 WWM</td></tr> <tr><td>matt graphite black</td><td style="text-align: right;">LS 3181-1 SWM</td></tr> </table> <p>metal colours (thermoplastic lacquered)</p> <table style="width: 100%;"> <tr><td>aluminium (lacquered)</td><td style="text-align: right;">AL 3181-1</td></tr> <tr><td>stainless steel (lacquered)</td><td style="text-align: right;">ES 3181-1</td></tr> <tr><td>anthracite (lacquered)</td><td style="text-align: right;">AL 3181-1 AN</td></tr> <tr><td>dark (lacquered)</td><td style="text-align: right;">AL 3181-1 D</td></tr> <tr><td>classic brass (lacquered)</td><td style="text-align: right;">ME 3181-1 C</td></tr> <tr><td>antique brass (lacquered)</td><td style="text-align: right;">ME 3181-1 AT</td></tr> </table> <p>IR remote control for KNX universal automatic switch ref.-no.: .. 3181-1 .., .. 3281-1 KNX PM FB IR Battery operation with one included lithium button cell (CR 2025)</p>	ivory	A 3181-1	white	A 3181-1 WW	black	A 3181-1 SW	aluminium	A 3181-1 AL	champagne	A 3181-1 CH	mocha	A 3181-1 MO	matt snow white	A 3181-1 WWM	matt graphite black	A 3181-1 SWM	matt anthracite	A 3181-1 ANM	ivory	CD 3181-1	white	CD 3181-1 WW	grey	CD 3181-1 GR	light grey	CD 3181-1 LG	black	CD 3181-1 SW	ivory	LS 3181-1	white	LS 3181-1 WW	light grey	LS 3181-1 LG	black	LS 3181-1 SW	matt snow white	LS 3181-1 WWM	matt graphite black	LS 3181-1 SWM	aluminium (lacquered)	AL 3181-1	stainless steel (lacquered)	ES 3181-1	anthracite (lacquered)	AL 3181-1 AN	dark (lacquered)	AL 3181-1 D	classic brass (lacquered)	ME 3181-1 C	antique brass (lacquered)	ME 3181-1 AT
ivory	A 3181-1																																																				
white	A 3181-1 WW																																																				
black	A 3181-1 SW																																																				
aluminium	A 3181-1 AL																																																				
champagne	A 3181-1 CH																																																				
mocha	A 3181-1 MO																																																				
matt snow white	A 3181-1 WWM																																																				
matt graphite black	A 3181-1 SWM																																																				
matt anthracite	A 3181-1 ANM																																																				
ivory	CD 3181-1																																																				
white	CD 3181-1 WW																																																				
grey	CD 3181-1 GR																																																				
light grey	CD 3181-1 LG																																																				
black	CD 3181-1 SW																																																				
ivory	LS 3181-1																																																				
white	LS 3181-1 WW																																																				
light grey	LS 3181-1 LG																																																				
black	LS 3181-1 SW																																																				
matt snow white	LS 3181-1 WWM																																																				
matt graphite black	LS 3181-1 SWM																																																				
aluminium (lacquered)	AL 3181-1																																																				
stainless steel (lacquered)	ES 3181-1																																																				
anthracite (lacquered)	AL 3181-1 AN																																																				
dark (lacquered)	AL 3181-1 D																																																				
classic brass (lacquered)	ME 3181-1 C																																																				
antique brass (lacquered)	ME 3181-1 AT																																																				
	<p>KNX automatic switch 2.2 m Standard for bus coupling unit 3 ref.-no.: 2073 U Protection level IP 44 is ensured with sealing kit ref.-no. AS .. 50 DS and "IP 44 frame" of the respective design range. IP 44 suitable only for indoor installation ETS product family: Physical sensors Product type: Movement</p> <p>for AS and A ranges</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr><td>ivory</td><td style="text-align: right;">A 3281</td></tr> <tr><td>white</td><td style="text-align: right;">A 3281 WW</td></tr> <tr><td>black</td><td style="text-align: right;">A 3281 SW</td></tr> </table> <p>Thermoplastic (breakproof) lacquered</p> <table style="width: 100%;"> <tr><td>aluminium</td><td style="text-align: right;">A 3281 AL</td></tr> <tr><td>champagne</td><td style="text-align: right;">A 3281 CH</td></tr> <tr><td>mocha</td><td style="text-align: right;">A 3281 MO</td></tr> </table> <p>matt lacquered</p> <table style="width: 100%;"> <tr><td>matt snow white</td><td style="text-align: right;">A 3281 WWM</td></tr> <tr><td>matt graphite black</td><td style="text-align: right;">A 3281 SWM</td></tr> <tr><td>matt anthracite</td><td style="text-align: right;">A 3281 ANM</td></tr> </table> <p>for CD range</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr><td>ivory</td><td style="text-align: right;">CD 3281</td></tr> <tr><td>white</td><td style="text-align: right;">CD 3281 WW</td></tr> <tr><td>grey</td><td style="text-align: right;">CD 3281 GR</td></tr> <tr><td>light grey</td><td style="text-align: right;">CD 3281 LG</td></tr> <tr><td>black</td><td style="text-align: right;">CD 3281 SW</td></tr> </table> <p>for LS range</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr><td>ivory</td><td style="text-align: right;">LS 3281</td></tr> <tr><td>white</td><td style="text-align: right;">LS 3281 WW</td></tr> <tr><td>light grey</td><td style="text-align: right;">LS 3281 LG</td></tr> <tr><td>black</td><td style="text-align: right;">LS 3281 SW</td></tr> </table> <p>matt lacquered</p> <table style="width: 100%;"> <tr><td>matt snow white</td><td style="text-align: right;">LS 3281 WWM</td></tr> <tr><td>matt graphite black</td><td style="text-align: right;">LS 3281 SWM</td></tr> </table> <p>metal colours (thermoplastic lacquered)</p> <table style="width: 100%;"> <tr><td>aluminium (lacquered)</td><td style="text-align: right;">AL 3281</td></tr> <tr><td>stainless steel (lacquered)</td><td style="text-align: right;">ES 3281</td></tr> <tr><td>anthracite (lacquered)</td><td style="text-align: right;">AL 3281 AN</td></tr> <tr><td>dark (lacquered)</td><td style="text-align: right;">AL 3281 D</td></tr> <tr><td>classic brass (lacquered)</td><td style="text-align: right;">ME 3281 C</td></tr> <tr><td>antique brass (lacquered)</td><td style="text-align: right;">ME 3281 AT</td></tr> </table> <p>Sealing kit for automatic switches 2.2 m of the AS / A ranges AS A 50 DS</p> <p>Sealing kit for automatic switches 2.2 m of the CD and LS ranges AS CD 50 DS</p>	ivory	A 3281	white	A 3281 WW	black	A 3281 SW	aluminium	A 3281 AL	champagne	A 3281 CH	mocha	A 3281 MO	matt snow white	A 3281 WWM	matt graphite black	A 3281 SWM	matt anthracite	A 3281 ANM	ivory	CD 3281	white	CD 3281 WW	grey	CD 3281 GR	light grey	CD 3281 LG	black	CD 3281 SW	ivory	LS 3281	white	LS 3281 WW	light grey	LS 3281 LG	black	LS 3281 SW	matt snow white	LS 3281 WWM	matt graphite black	LS 3281 SWM	aluminium (lacquered)	AL 3281	stainless steel (lacquered)	ES 3281	anthracite (lacquered)	AL 3281 AN	dark (lacquered)	AL 3281 D	classic brass (lacquered)	ME 3281 C	antique brass (lacquered)	ME 3281 AT
ivory	A 3281																																																				
white	A 3281 WW																																																				
black	A 3281 SW																																																				
aluminium	A 3281 AL																																																				
champagne	A 3281 CH																																																				
mocha	A 3281 MO																																																				
matt snow white	A 3281 WWM																																																				
matt graphite black	A 3281 SWM																																																				
matt anthracite	A 3281 ANM																																																				
ivory	CD 3281																																																				
white	CD 3281 WW																																																				
grey	CD 3281 GR																																																				
light grey	CD 3281 LG																																																				
black	CD 3281 SW																																																				
ivory	LS 3281																																																				
white	LS 3281 WW																																																				
light grey	LS 3281 LG																																																				
black	LS 3281 SW																																																				
matt snow white	LS 3281 WWM																																																				
matt graphite black	LS 3281 SWM																																																				
aluminium (lacquered)	AL 3281																																																				
stainless steel (lacquered)	ES 3281																																																				
anthracite (lacquered)	AL 3281 AN																																																				
dark (lacquered)	AL 3281 D																																																				
classic brass (lacquered)	ME 3281 C																																																				
antique brass (lacquered)	ME 3281 AT																																																				
																																																					
																																																					
																																																					
																																																					




KNX Automatic switches


	Ref.-no.																																																				
	<p>KNX automatic switch 2.2 m Standard for bus coupling unit 3 ref.-no.: 2073 U Protection level IP 44 is ensured with sealing kit ref.-no. AS .. 50 DS and "IP 44 frame" of the respective design range. IP 44 suitable only for indoor installation ETS product family: Physical sensors Product type: Movement</p> <p>for AS and A ranges</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr><td>ivory</td><td style="text-align: right;">A 3281</td></tr> <tr><td>white</td><td style="text-align: right;">A 3281 WW</td></tr> <tr><td>black</td><td style="text-align: right;">A 3281 SW</td></tr> </table> <p>Thermoplastic (breakproof) lacquered</p> <table style="width: 100%;"> <tr><td>aluminium</td><td style="text-align: right;">A 3281 AL</td></tr> <tr><td>champagne</td><td style="text-align: right;">A 3281 CH</td></tr> <tr><td>mocha</td><td style="text-align: right;">A 3281 MO</td></tr> </table> <p>matt lacquered</p> <table style="width: 100%;"> <tr><td>matt snow white</td><td style="text-align: right;">A 3281 WWM</td></tr> <tr><td>matt graphite black</td><td style="text-align: right;">A 3281 SWM</td></tr> <tr><td>matt anthracite</td><td style="text-align: right;">A 3281 ANM</td></tr> </table> <p>for CD range</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr><td>ivory</td><td style="text-align: right;">CD 3281</td></tr> <tr><td>white</td><td style="text-align: right;">CD 3281 WW</td></tr> <tr><td>grey</td><td style="text-align: right;">CD 3281 GR</td></tr> <tr><td>light grey</td><td style="text-align: right;">CD 3281 LG</td></tr> <tr><td>black</td><td style="text-align: right;">CD 3281 SW</td></tr> </table> <p>for LS range</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr><td>ivory</td><td style="text-align: right;">LS 3281</td></tr> <tr><td>white</td><td style="text-align: right;">LS 3281 WW</td></tr> <tr><td>light grey</td><td style="text-align: right;">LS 3281 LG</td></tr> <tr><td>black</td><td style="text-align: right;">LS 3281 SW</td></tr> </table> <p>matt lacquered</p> <table style="width: 100%;"> <tr><td>matt snow white</td><td style="text-align: right;">LS 3281 WWM</td></tr> <tr><td>matt graphite black</td><td style="text-align: right;">LS 3281 SWM</td></tr> </table> <p>metal colours (thermoplastic lacquered)</p> <table style="width: 100%;"> <tr><td>aluminium (lacquered)</td><td style="text-align: right;">AL 3281</td></tr> <tr><td>stainless steel (lacquered)</td><td style="text-align: right;">ES 3281</td></tr> <tr><td>anthracite (lacquered)</td><td style="text-align: right;">AL 3281 AN</td></tr> <tr><td>dark (lacquered)</td><td style="text-align: right;">AL 3281 D</td></tr> <tr><td>classic brass (lacquered)</td><td style="text-align: right;">ME 3281 C</td></tr> <tr><td>antique brass (lacquered)</td><td style="text-align: right;">ME 3281 AT</td></tr> </table> <p>Sealing kit for automatic switches 2.2 m of the AS / A ranges AS A 50 DS</p> <p>Sealing kit for automatic switches 2.2 m of the CD and LS ranges AS CD 50 DS</p>	ivory	A 3281	white	A 3281 WW	black	A 3281 SW	aluminium	A 3281 AL	champagne	A 3281 CH	mocha	A 3281 MO	matt snow white	A 3281 WWM	matt graphite black	A 3281 SWM	matt anthracite	A 3281 ANM	ivory	CD 3281	white	CD 3281 WW	grey	CD 3281 GR	light grey	CD 3281 LG	black	CD 3281 SW	ivory	LS 3281	white	LS 3281 WW	light grey	LS 3281 LG	black	LS 3281 SW	matt snow white	LS 3281 WWM	matt graphite black	LS 3281 SWM	aluminium (lacquered)	AL 3281	stainless steel (lacquered)	ES 3281	anthracite (lacquered)	AL 3281 AN	dark (lacquered)	AL 3281 D	classic brass (lacquered)	ME 3281 C	antique brass (lacquered)	ME 3281 AT
ivory	A 3281																																																				
white	A 3281 WW																																																				
black	A 3281 SW																																																				
aluminium	A 3281 AL																																																				
champagne	A 3281 CH																																																				
mocha	A 3281 MO																																																				
matt snow white	A 3281 WWM																																																				
matt graphite black	A 3281 SWM																																																				
matt anthracite	A 3281 ANM																																																				
ivory	CD 3281																																																				
white	CD 3281 WW																																																				
grey	CD 3281 GR																																																				
light grey	CD 3281 LG																																																				
black	CD 3281 SW																																																				
ivory	LS 3281																																																				
white	LS 3281 WW																																																				
light grey	LS 3281 LG																																																				
black	LS 3281 SW																																																				
matt snow white	LS 3281 WWM																																																				
matt graphite black	LS 3281 SWM																																																				
aluminium (lacquered)	AL 3281																																																				
stainless steel (lacquered)	ES 3281																																																				
anthracite (lacquered)	AL 3281 AN																																																				
dark (lacquered)	AL 3281 D																																																				
classic brass (lacquered)	ME 3281 C																																																				
antique brass (lacquered)	ME 3281 AT																																																				
																																																					
																																																					
																																																					
																																																					


	Ref.-no.																																																																																				
	<p>KNX automatic switch 2.2 m Universal for bus coupling unit 3 ref.-no.: 2073 U Protection level IP 44 is ensured with sealing kit ref.-no. AS .. 50 DS and "IP 44 frame" of the respective design range. IP 44 suitable for indoor and outdoor installation ETS product family: Physical sensors Product type: Movement</p> <p>Additional characteristics of "Universal" version:</p> <ul style="list-style-type: none"> • Manual operation with IR remote control possible (ref.-no.: KNX PM FB IR) • Up to half of the detection area can be screened off (parameter setting) • 5 function blocks for motion detection each with 2 outputs • Function blocks switchable, e.g. for day/night operation • Brightness sensor function with 3 limiting values • Alarm message in case the device is removed from the bus coupling unit • Temperature measurement <p>for AS and A ranges</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr><td>ivory</td><td></td><td>A 3281-1</td></tr> <tr><td>white</td><td></td><td>A 3281-1 WW</td></tr> <tr><td>black</td><td></td><td>A 3281-1 SW</td></tr> </table> <p>Thermoplastic (breakproof) lacquered</p> <table style="width: 100%;"> <tr><td>aluminium</td><td></td><td>A 3281-1 AL</td></tr> <tr><td>champagne</td><td></td><td>A 3281-1 CH</td></tr> <tr><td>mocha</td><td></td><td>A 3281-1 MO</td></tr> </table> <p>matt lacquered</p> <table style="width: 100%;"> <tr><td>matt snow white</td><td></td><td>A 3281-1 WWM</td></tr> <tr><td>matt</td><td></td><td></td></tr> <tr><td>graphite black</td><td></td><td>A 3281-1 SWM</td></tr> <tr><td>matt anthracite</td><td></td><td>A 3281-1 ANM</td></tr> </table> <p>for CD range</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr><td>ivory</td><td></td><td>CD 3281-1</td></tr> <tr><td>white</td><td></td><td>CD 3281-1 WW</td></tr> <tr><td>grey</td><td></td><td>CD 3281-1 GR</td></tr> <tr><td>light grey</td><td></td><td>CD 3281-1 LG</td></tr> <tr><td>black</td><td></td><td>CD 3281-1 SW</td></tr> </table> <p>for LS range</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr><td>ivory</td><td></td><td>LS 3281-1</td></tr> <tr><td>white</td><td></td><td>LS 3281-1 WW</td></tr> <tr><td>light grey</td><td></td><td>LS 3281-1 LG</td></tr> <tr><td>black</td><td></td><td>LS 3281-1 SW</td></tr> </table> <p>matt lacquered</p> <table style="width: 100%;"> <tr><td>matt snow white</td><td></td><td>LS 3281-1 WWM</td></tr> <tr><td>matt</td><td></td><td></td></tr> <tr><td>graphite black</td><td></td><td>LS 3281-1 SWM</td></tr> </table> <p>metal colours (thermoplastic lacquered)</p> <table style="width: 100%;"> <tr><td>aluminium (lacquered)</td><td></td><td>AL 3281-1</td></tr> <tr><td>stainless steel (lacquered)</td><td></td><td>ES 3281-1</td></tr> <tr><td>anthracite (lacquered)</td><td></td><td>AL 3281-1 AN</td></tr> <tr><td>dark (lacquered)</td><td></td><td>AL 3281-1 D</td></tr> <tr><td>classic brass (lacquered)</td><td></td><td>ME 3281-1 C</td></tr> <tr><td>antique brass (lacquered)</td><td></td><td>ME 3281-1 AT</td></tr> </table> <p>IR remote control for KNX universal automatic switch ref.-no.: .. 3181-1 .., .. 3281-1 KNX PM FB IR Battery operation with one included lithium button cell (CR 2025)</p>	ivory		A 3281-1	white		A 3281-1 WW	black		A 3281-1 SW	aluminium		A 3281-1 AL	champagne		A 3281-1 CH	mocha		A 3281-1 MO	matt snow white		A 3281-1 WWM	matt			graphite black		A 3281-1 SWM	matt anthracite		A 3281-1 ANM	ivory		CD 3281-1	white		CD 3281-1 WW	grey		CD 3281-1 GR	light grey		CD 3281-1 LG	black		CD 3281-1 SW	ivory		LS 3281-1	white		LS 3281-1 WW	light grey		LS 3281-1 LG	black		LS 3281-1 SW	matt snow white		LS 3281-1 WWM	matt			graphite black		LS 3281-1 SWM	aluminium (lacquered)		AL 3281-1	stainless steel (lacquered)		ES 3281-1	anthracite (lacquered)		AL 3281-1 AN	dark (lacquered)		AL 3281-1 D	classic brass (lacquered)		ME 3281-1 C	antique brass (lacquered)		ME 3281-1 AT
ivory		A 3281-1																																																																																			
white		A 3281-1 WW																																																																																			
black		A 3281-1 SW																																																																																			
aluminium		A 3281-1 AL																																																																																			
champagne		A 3281-1 CH																																																																																			
mocha		A 3281-1 MO																																																																																			
matt snow white		A 3281-1 WWM																																																																																			
matt																																																																																					
graphite black		A 3281-1 SWM																																																																																			
matt anthracite		A 3281-1 ANM																																																																																			
ivory		CD 3281-1																																																																																			
white		CD 3281-1 WW																																																																																			
grey		CD 3281-1 GR																																																																																			
light grey		CD 3281-1 LG																																																																																			
black		CD 3281-1 SW																																																																																			
ivory		LS 3281-1																																																																																			
white		LS 3281-1 WW																																																																																			
light grey		LS 3281-1 LG																																																																																			
black		LS 3281-1 SW																																																																																			
matt snow white		LS 3281-1 WWM																																																																																			
matt																																																																																					
graphite black		LS 3281-1 SWM																																																																																			
aluminium (lacquered)		AL 3281-1																																																																																			
stainless steel (lacquered)		ES 3281-1																																																																																			
anthracite (lacquered)		AL 3281-1 AN																																																																																			
dark (lacquered)		AL 3281-1 D																																																																																			
classic brass (lacquered)		ME 3281-1 C																																																																																			
antique brass (lacquered)		ME 3281-1 AT																																																																																			
	<p>KNX room temperature controller module 2-gang including transparent cover and inlay with symbols</p> <p>for AS and A ranges for cover kit 2-gang, ref.-no.: A 502 TSA .. A 5178 TSM</p> <p>for CD range for cover kit 2-gang, ref.-no.: CD 502 TSA .. CD 5178 TSM</p> <p>for LS range for cover kit 2-gang, ref.-no.: ..502 TSA .. in the LS range LS 5178 TSM</p> <p>KNX room temperature controller with integrated BCU with rotary knob for set point adjustment Only with the ETS 3.0d version or later versions the full functionality will be available.</p> <p>Technical data</p> <table style="width: 100%;"> <tr><td>KNX medium:</td><td>TP 256</td></tr> <tr><td>Rated voltage KNX:</td><td>DC 21 ... 32 V SELV</td></tr> <tr><td>Current consumption KNX:</td><td>max. 10 mA</td></tr> <tr><td>Connection, KNX:</td><td>terminal</td></tr> <tr><td>Ambient temperature:</td><td>-5 ... +45 °C</td></tr> <tr><td>Storage/transport temperature:</td><td>-25 ... +70 °C</td></tr> </table> <p>for AS and A ranges</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr><td>ivory</td><td>A 2178</td></tr> <tr><td>white</td><td>A 2178 WW</td></tr> <tr><td>black</td><td>A 2178 SW</td></tr> </table> <p>Thermoplastic (breakproof) lacquered</p> <table style="width: 100%;"> <tr><td>aluminium</td><td>A 2178 AL</td></tr> <tr><td>champagne</td><td>A 2178 CH</td></tr> <tr><td>mocha</td><td>A 2178 MO</td></tr> </table> <p>matt lacquered</p> <table style="width: 100%;"> <tr><td>matt snow white</td><td>A 2178 WWM</td></tr> <tr><td>matt graphite black</td><td>A 2178 SWM</td></tr> <tr><td>matt anthracite</td><td>A 2178 ANM</td></tr> </table> <p>for CD range</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr><td>ivory</td><td>2178</td></tr> <tr><td>white</td><td>CD 2178 WW</td></tr> <tr><td>grey</td><td>CD 2178 GR</td></tr> <tr><td>light grey</td><td>CD 2178 LG</td></tr> <tr><td>black</td><td>CD 2178 SW</td></tr> </table>	KNX medium:	TP 256	Rated voltage KNX:	DC 21 ... 32 V SELV	Current consumption KNX:	max. 10 mA	Connection, KNX:	terminal	Ambient temperature:	-5 ... +45 °C	Storage/transport temperature:	-25 ... +70 °C	ivory	A 2178	white	A 2178 WW	black	A 2178 SW	aluminium	A 2178 AL	champagne	A 2178 CH	mocha	A 2178 MO	matt snow white	A 2178 WWM	matt graphite black	A 2178 SWM	matt anthracite	A 2178 ANM	ivory	2178	white	CD 2178 WW	grey	CD 2178 GR	light grey	CD 2178 LG	black	CD 2178 SW																																												
KNX medium:	TP 256																																																																																				
Rated voltage KNX:	DC 21 ... 32 V SELV																																																																																				
Current consumption KNX:	max. 10 mA																																																																																				
Connection, KNX:	terminal																																																																																				
Ambient temperature:	-5 ... +45 °C																																																																																				
Storage/transport temperature:	-25 ... +70 °C																																																																																				
ivory	A 2178																																																																																				
white	A 2178 WW																																																																																				
black	A 2178 SW																																																																																				
aluminium	A 2178 AL																																																																																				
champagne	A 2178 CH																																																																																				
mocha	A 2178 MO																																																																																				
matt snow white	A 2178 WWM																																																																																				
matt graphite black	A 2178 SWM																																																																																				
matt anthracite	A 2178 ANM																																																																																				
ivory	2178																																																																																				
white	CD 2178 WW																																																																																				
grey	CD 2178 GR																																																																																				
light grey	CD 2178 LG																																																																																				
black	CD 2178 SW																																																																																				

	Ref.-no.																																								
	<p>KNX room temperature controller module 2-gang including transparent cover and inlay with symbols</p> <p>for AS and A ranges for cover kit 2-gang, ref.-no.: A 502 TSA .. A 5178 TSM</p> <p>for CD range for cover kit 2-gang, ref.-no.: CD 502 TSA .. CD 5178 TSM</p> <p>for LS range for cover kit 2-gang, ref.-no.: ..502 TSA .. in the LS range LS 5178 TSM</p> <p>KNX room temperature controller with integrated BCU with rotary knob for set point adjustment Only with the ETS 3.0d version or later versions the full functionality will be available.</p> <p>Technical data</p> <table style="width: 100%;"> <tr><td>KNX medium:</td><td>TP 256</td></tr> <tr><td>Rated voltage KNX:</td><td>DC 21 ... 32 V SELV</td></tr> <tr><td>Current consumption KNX:</td><td>max. 10 mA</td></tr> <tr><td>Connection, KNX:</td><td>terminal</td></tr> <tr><td>Ambient temperature:</td><td>-5 ... +45 °C</td></tr> <tr><td>Storage/transport temperature:</td><td>-25 ... +70 °C</td></tr> </table> <p>for AS and A ranges</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr><td>ivory</td><td>A 2178</td></tr> <tr><td>white</td><td>A 2178 WW</td></tr> <tr><td>black</td><td>A 2178 SW</td></tr> </table> <p>Thermoplastic (breakproof) lacquered</p> <table style="width: 100%;"> <tr><td>aluminium</td><td>A 2178 AL</td></tr> <tr><td>champagne</td><td>A 2178 CH</td></tr> <tr><td>mocha</td><td>A 2178 MO</td></tr> </table> <p>matt lacquered</p> <table style="width: 100%;"> <tr><td>matt snow white</td><td>A 2178 WWM</td></tr> <tr><td>matt graphite black</td><td>A 2178 SWM</td></tr> <tr><td>matt anthracite</td><td>A 2178 ANM</td></tr> </table> <p>for CD range</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr><td>ivory</td><td>2178</td></tr> <tr><td>white</td><td>CD 2178 WW</td></tr> <tr><td>grey</td><td>CD 2178 GR</td></tr> <tr><td>light grey</td><td>CD 2178 LG</td></tr> <tr><td>black</td><td>CD 2178 SW</td></tr> </table>	KNX medium:	TP 256	Rated voltage KNX:	DC 21 ... 32 V SELV	Current consumption KNX:	max. 10 mA	Connection, KNX:	terminal	Ambient temperature:	-5 ... +45 °C	Storage/transport temperature:	-25 ... +70 °C	ivory	A 2178	white	A 2178 WW	black	A 2178 SW	aluminium	A 2178 AL	champagne	A 2178 CH	mocha	A 2178 MO	matt snow white	A 2178 WWM	matt graphite black	A 2178 SWM	matt anthracite	A 2178 ANM	ivory	2178	white	CD 2178 WW	grey	CD 2178 GR	light grey	CD 2178 LG	black	CD 2178 SW
KNX medium:	TP 256																																								
Rated voltage KNX:	DC 21 ... 32 V SELV																																								
Current consumption KNX:	max. 10 mA																																								
Connection, KNX:	terminal																																								
Ambient temperature:	-5 ... +45 °C																																								
Storage/transport temperature:	-25 ... +70 °C																																								
ivory	A 2178																																								
white	A 2178 WW																																								
black	A 2178 SW																																								
aluminium	A 2178 AL																																								
champagne	A 2178 CH																																								
mocha	A 2178 MO																																								
matt snow white	A 2178 WWM																																								
matt graphite black	A 2178 SWM																																								
matt anthracite	A 2178 ANM																																								
ivory	2178																																								
white	CD 2178 WW																																								
grey	CD 2178 GR																																								
light grey	CD 2178 LG																																								
black	CD 2178 SW																																								
	<p>KNX room temperature controller with integrated BCU with rotary knob for set point adjustment Only with the ETS 3.0d version or later versions the full functionality will be available.</p> <p>Technical data</p> <table style="width: 100%;"> <tr><td>KNX medium:</td><td>TP 256</td></tr> <tr><td>Rated voltage KNX:</td><td>DC 21 ... 32 V SELV</td></tr> <tr><td>Current consumption KNX:</td><td>max. 10 mA</td></tr> <tr><td>Connection, KNX:</td><td>terminal</td></tr> <tr><td>Ambient temperature:</td><td>-5 ... +45 °C</td></tr> <tr><td>Storage/transport temperature:</td><td>-25 ... +70 °C</td></tr> </table> <p>for AS and A ranges</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr><td>ivory</td><td>A 2178</td></tr> <tr><td>white</td><td>A 2178 WW</td></tr> <tr><td>black</td><td>A 2178 SW</td></tr> </table> <p>Thermoplastic (breakproof) lacquered</p> <table style="width: 100%;"> <tr><td>aluminium</td><td>A 2178 AL</td></tr> <tr><td>champagne</td><td>A 2178 CH</td></tr> <tr><td>mocha</td><td>A 2178 MO</td></tr> </table> <p>matt lacquered</p> <table style="width: 100%;"> <tr><td>matt snow white</td><td>A 2178 WWM</td></tr> <tr><td>matt graphite black</td><td>A 2178 SWM</td></tr> <tr><td>matt anthracite</td><td>A 2178 ANM</td></tr> </table> <p>for CD range</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr><td>ivory</td><td>2178</td></tr> <tr><td>white</td><td>CD 2178 WW</td></tr> <tr><td>grey</td><td>CD 2178 GR</td></tr> <tr><td>light grey</td><td>CD 2178 LG</td></tr> <tr><td>black</td><td>CD 2178 SW</td></tr> </table>	KNX medium:	TP 256	Rated voltage KNX:	DC 21 ... 32 V SELV	Current consumption KNX:	max. 10 mA	Connection, KNX:	terminal	Ambient temperature:	-5 ... +45 °C	Storage/transport temperature:	-25 ... +70 °C	ivory	A 2178	white	A 2178 WW	black	A 2178 SW	aluminium	A 2178 AL	champagne	A 2178 CH	mocha	A 2178 MO	matt snow white	A 2178 WWM	matt graphite black	A 2178 SWM	matt anthracite	A 2178 ANM	ivory	2178	white	CD 2178 WW	grey	CD 2178 GR	light grey	CD 2178 LG	black	CD 2178 SW
KNX medium:	TP 256																																								
Rated voltage KNX:	DC 21 ... 32 V SELV																																								
Current consumption KNX:	max. 10 mA																																								
Connection, KNX:	terminal																																								
Ambient temperature:	-5 ... +45 °C																																								
Storage/transport temperature:	-25 ... +70 °C																																								
ivory	A 2178																																								
white	A 2178 WW																																								
black	A 2178 SW																																								
aluminium	A 2178 AL																																								
champagne	A 2178 CH																																								
mocha	A 2178 MO																																								
matt snow white	A 2178 WWM																																								
matt graphite black	A 2178 SWM																																								
matt anthracite	A 2178 ANM																																								
ivory	2178																																								
white	CD 2178 WW																																								
grey	CD 2178 GR																																								
light grey	CD 2178 LG																																								
black	CD 2178 SW																																								
	<p>KNX room temperature controller with integrated BCU with rotary knob for set point adjustment Only with the ETS 3.0d version or later versions the full functionality will be available.</p> <p>Technical data</p> <table style="width: 100%;"> <tr><td>KNX medium:</td><td>TP 256</td></tr> <tr><td>Rated voltage KNX:</td><td>DC 21 ... 32 V SELV</td></tr> <tr><td>Current consumption KNX:</td><td>max. 10 mA</td></tr> <tr><td>Connection, KNX:</td><td>terminal</td></tr> <tr><td>Ambient temperature:</td><td>-5 ... +45 °C</td></tr> <tr><td>Storage/transport temperature:</td><td>-25 ... +70 °C</td></tr> </table> <p>for AS and A ranges</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr><td>ivory</td><td>A 2178</td></tr> <tr><td>white</td><td>A 2178 WW</td></tr> <tr><td>black</td><td>A 2178 SW</td></tr> </table> <p>Thermoplastic (breakproof) lacquered</p> <table style="width: 100%;"> <tr><td>aluminium</td><td>A 2178 AL</td></tr> <tr><td>champagne</td><td>A 2178 CH</td></tr> <tr><td>mocha</td><td>A 2178 MO</td></tr> </table> <p>matt lacquered</p> <table style="width: 100%;"> <tr><td>matt snow white</td><td>A 2178 WWM</td></tr> <tr><td>matt graphite black</td><td>A 2178 SWM</td></tr> <tr><td>matt anthracite</td><td>A 2178 ANM</td></tr> </table> <p>for CD range</p> <p>Thermoplastic (breakproof) high-gloss</p> <table style="width: 100%;"> <tr><td>ivory</td><td>2178</td></tr> <tr><td>white</td><td>CD 2178 WW</td></tr> <tr><td>grey</td><td>CD 2178 GR</td></tr> <tr><td>light grey</td><td>CD 2178 LG</td></tr> <tr><td>black</td><td>CD 2178 SW</td></tr> </table>	KNX medium:	TP 256	Rated voltage KNX:	DC 21 ... 32 V SELV	Current consumption KNX:	max. 10 mA	Connection, KNX:	terminal	Ambient temperature:	-5 ... +45 °C	Storage/transport temperature:	-25 ... +70 °C	ivory	A 2178	white	A 2178 WW	black	A 2178 SW	aluminium	A 2178 AL	champagne	A 2178 CH	mocha	A 2178 MO	matt snow white	A 2178 WWM	matt graphite black	A 2178 SWM	matt anthracite	A 2178 ANM	ivory	2178	white	CD 2178 WW	grey	CD 2178 GR	light grey	CD 2178 LG	black	CD 2178 SW
KNX medium:	TP 256																																								
Rated voltage KNX:	DC 21 ... 32 V SELV																																								
Current consumption KNX:	max. 10 mA																																								
Connection, KNX:	terminal																																								
Ambient temperature:	-5 ... +45 °C																																								
Storage/transport temperature:	-25 ... +70 °C																																								
ivory	A 2178																																								
white	A 2178 WW																																								
black	A 2178 SW																																								
aluminium	A 2178 AL																																								
champagne	A 2178 CH																																								
mocha	A 2178 MO																																								
matt snow white	A 2178 WWM																																								
matt graphite black	A 2178 SWM																																								
matt anthracite	A 2178 ANM																																								
ivory	2178																																								
white	CD 2178 WW																																								
grey	CD 2178 GR																																								
light grey	CD 2178 LG																																								
black	CD 2178 SW																																								








	Ref.-no.
	<p>for LS range</p> <p>Thermoplastic (breakproof) high-gloss ivory LS 2178 white LS 2178 WW light grey LS 2178 LG black LS 2178 SW</p> <p>matt lacquered matt snow white LS 2178 WWM matt graphite black LS 2178 SWM</p> <p>metal versions aluminium AL 2178 stainless steel ES 2178 anthracite (aluminium lacquered) AL 2178 AN dark (aluminium lacquered) AL 2178 D chrome GCR 2178 classic brass ME 2178 C antique brass ME 2178 AT</p> <p>KNX room temperature controller with integrated BCU with integrated push-button interface 4-gang with rotary knob for set point adjustment Only with the ETS 3.0d version or later versions the full functionality will be available.</p> <p>for AS and A ranges</p> <p>Thermoplastic (breakproof) high-gloss ivory A 2178 TS white A 2178 TS WW black A 2178 TS SW</p> <p>Thermoplastic (breakproof) lacquered aluminium A 2178 TS AL champagne A 2178 TS CH mocha A 2178 TS MO</p> <p>matt lacquered matt snow white A 2178 TS WWM matt graphite black A 2178 TS SWM matt anthracite A 2178 TS ANM</p> <p>for CD range</p> <p>Thermoplastic (breakproof) high-gloss ivory 2178 TS white CD 2178 TS WW grey CD 2178 TS GR light grey CD 2178 TS LG black CD 2178 TS SW</p> <p>for LS range</p> <p>Thermoplastic (breakproof) high-gloss ivory LS 2178 TS white LS 2178 TS WW light grey LS 2178 TS LG black LS 2178 TS SW</p> <p>matt lacquered matt snow white LS 2178 TS WWM matt graphite black LS 2178 TS SWM</p> <p>metal versions aluminium AL 2178 TS stainless steel ES 2178 TS anthracite (aluminium lacquered) AL 2178 TS AN dark (aluminium lacquered) AL 2178 TS D chrome GCR 2178 TS classic brass ME 2178 TS C antique brass ME 2178 TS AT</p>
	
	
	

	Ref.-no.
	<p>KNX room autostat with integrated BCU with integrated push-button interface 4-gang without rotary knob for set point adjustment without any operational elements Only with the ETS 3.0d version or later versions the full functionality will be available.</p> <p>for AS and A ranges</p> <p>Duroplastic (scratch-proof) glossy ivory A 2178 ORTS white A 2178 ORTS WW black A 2178 ORTS SW</p> <p>Duroplastic lacquered aluminium A 2178 ORTS AL champagne A 2178 ORTS CH mocha A 2178 ORTS MO</p> <p>Thermoplastic (breakproof) high-gloss white A 2178 BF ORTS SWM black A 2178 BF ORTS SW</p> <p>matt lacquered matt snow white A 2178 BF ORTS WWM matt graphite black A 2178 BF ORTS SWM matt anthracite A 2178 BF ORTS ANM</p> <p>for CD range</p> <p>Duroplastic (scratch-proof) glossy ivory 2178 ORTS white CD 2178 ORTS WW grey CD 2178 ORTS GR light grey CD 2178 ORTS LG black CD 2178 ORTS SW</p> <p>for LS range</p> <p>Duroplastic (scratch-proof) glossy ivory LS 2178 ORTS white LS 2178 ORTS WW light grey LS 2178 ORTS LG black LS 2178 ORTS SW</p> <p>matt lacquered matt snow white LS 2178 ORTS WWM matt graphite black LS 2178 ORTS SWM</p> <p>metal versions aluminium AL 2178 ORTS stainless steel ES 2178 ORTS anthracite (aluminium lacquered) AL 2178 ORTS AN dark (aluminium lacquered) AL 2178 ORTS D chrome GCR 2178 ORTS classic brass ME 2178 ORTS C antique brass ME 2178 ORTS AT</p>
	
	







	Ref.-no.
	KNX CO₂ multi-sensor with integrated BCU with humidity sensor and room temperature controller with integrated push-button interface 2-gang
	for AS and A ranges
	Duroplastic (scratch-proof) glossy
	ivory CO2 A 2178
	white CO2 A 2178 WW
	black CO2 A 2178 SW
	Duroplastic lacquered
	aluminium CO2 A 2178 AL
	champagne CO2 A 2178 CH
	mocha CO2 A 2178 MO
	Thermoplastic (breakproof) high-gloss
	white CO2 A 2178 BF WW
	black CO2 A 2178 BF SW
	matt lacquered
	matt snow white CO2 A 2178 BF WWM
matt graphite black CO2 A 2178 BF SWM	
matt anthracite CO2 A 2178 BF ANM	
for CD range	
Duroplastic (scratch-proof) glossy	
ivory CO2 CD 2178	
white CO2 CD 2178 WW	
grey CO2 CD 2178 GR	
light grey CO2 CD 2178 LG	
black CO2 CD 2178 SW	
for LS range	
Duroplastic (scratch-proof) glossy	
ivory CO2 LS 2178	
white CO2 LS 2178 WW	
light grey CO2 LS 2178 LG	
black CO2 LS 2178 SW	
matt lacquered	
matt snow white CO2 LS 2178 WWM	
matt graphite black CO2 LS 2178 SWM	
metal versions	
aluminium CO2 AL 2178	
stainless steel CO2 ES 2178	
anthracite (aluminium lacquered) CO2 AL 2178 AN	
dark (aluminium lacquered) CO2 AL 2178 D	
chrome CO2 GCR 2178	
classic brass CO2 ME 2178 C	
antique brass CO2 ME 2178 AT	

	Ref.-no.
	KNX temperature controller fan coil
	Intended use
	<ul style="list-style-type: none"> • Sensor module for operating electrical fan coil units in KNX installations • Measurement and feedback control of the room temperature • Installation in flush box according to EN 60670-1
	Product characteristics
	<ul style="list-style-type: none"> • Real glass front panel • 8 capacitive sensor buttons • Internal temperature sensor • External temperature sensor can be evaluated • Control of fan coil units • Heating and/or cooling mode • Suitable for 2-pipe or 4-pipe systems • Up to 3 fan speeds can be controlled • Room temperature controller function • Preselection of the current energy level either through the option of 4 operating modes in accordance with KNX standard or of 5 temperature profiles for use in hotels or similar sites • Display for indication of actual temperature (°C or °F), fan speed, operating mode/profile • 1 operating level and 2 menu levels • Menu levels blockable • 1 status LED (red/green/blue) • Display brightness and contrast adjustable • Duration of the display illumination up to 120 seconds • Operation as extension unit for temperature controller possible • Integrated bus coupling unit
	for AS and A ranges
	white TRD A 5248 WW
	black TRD A 5248 SW
	for LS range
	white TRD LS 9248 WW
	black TRD LS 9248 SW






KNX System components

	Ref.-no.
	<p>KNX power supply, 160 mA Rail mounting device, 4 rail units ETS product family: System components Product type: Power supply 20160 REG</p>
	<p>KNX power supply, 320 mA Rail mounting device, 4 rail units ETS product family: System components Product type: Power supply 20320 REG</p>
	<p>KNX power supply, 640 mA Rail mounting device, 4 rail units ETS product family: System components Product type: Power supply 20640 REG</p>
	<p>KNX power supply, 1280 mA Rail mounting device, 6 rail units ETS product family: System components Product type: Power supply 21280 REG</p>
	<p>KNX power supply 320 mA with IP interface Rail mounting device, 6 rail units Project design and commissioning with ETS5 or a more recent version. ETS product family: System components Product type: Power supply 20320 1S IPS R</p> <ul style="list-style-type: none"> • KNX Data Secure compatible with ETS 5.7.3 or higher • KNX IP Secure compatible with ETS 5.7.3 or higher • With V02 or higher remote access with remote access licence (ref.-no. IPS-L) possible
	<p>KNX USB data interface Rail mounting device, 2 rail units 2131 USBS REG</p> <ul style="list-style-type: none"> • KNX Data Secure compatible with ETS 5.7.3 or higher
	<p>KNX USB data interface 2131 USBS</p> <ul style="list-style-type: none"> • KNX Data Secure compatible with ETS 5.7.3 or higher








KNX System components









	Ref.-no.
	<p>Centre plate for USB data interface ref.-no.: 2131 USBS</p>
	<p>for AS and A ranges</p> <p>Duroplastic (scratch-proof) glossy ivory A A 569 PLT white A A 569 PLT WW black A A 569 PLT SW</p> <p>Duroplastic lacquered aluminium A L A 569 PLT AL champagne A A 569 PLT CH mocha A A 569 PLT MO</p> <p>Thermoplastic (breakproof) high-gloss ivory L A 569 BFPLT white L A 569 BFPLT WW black L A 569 BFPLT SW</p> <p>matt lacquered matt snow white A 569 BFPLT WWM matt graphite black A 569 BFPLT SWM matt anthracite A 569 BFPLT ANM</p>
	<p>for CD range</p> <p>Thermoplastic (breakproof) high-gloss ivory L 569 T white L CD 569 T WW grey L CD 569 T GR light grey L CD 569 T LG black L CD 569 T SW</p>
	<p>Centre plate (screw fixing) with inscription field 6 x 37 mm</p> <p>Thermoplastic (breakproof) high-gloss ivory L 569 TNA white L CD 569 TNA WW</p>
	<p>Transparent cover with paper inlay for inscription field 6 x 37 mm (Spare part) paper inlay white CD 20 NA</p>
	<p>for LS range</p> <p>Thermoplastic (breakproof) high-gloss ivory L LS 969 T white L LS 969 T WW light grey L LS 969 T LG black L LS 969 T SW</p> <p>matt lacquered matt snow white LS 969 T WWM matt graphite black LS 969 T SWM</p> <p>metal versions aluminium A L AL 2969 T stainless steel L ES 2969 T anthracite (aluminium lacquered) AL 2969 T AN dark (aluminium lacquered) AL 2969 T D chrome GCR 2969 T classic brass A ME 2969 T C antique brass ME 2969 T AT</p>
	<p>KNX RF radio USB stick USB 2130 RF</p> <ul style="list-style-type: none"> • PC interface for the addressing, programming and diagnostics of KNX RF devices • USB stick for coupling to a PC with a Windows-based operating system

KNX System components










	Ref.-no.	
		<p>KNX RF radio converter Project design and commissioning with ETS5 or a more recent version.</p> <p style="text-align: right;">MK 100 RF</p> <ul style="list-style-type: none"> As of V 02: KNX Data Secure compatible with ETS 5.7.3 or higher Connection of KNX radio networks with cabled KNX lines Extension of the radio range in KNX radio networks (repeater operation, external power supply with 24 V AC/DC, e.g. ref.-no. NT 2415 REG VDC)
		<p>KNX IP interface Rail mounting device, 2 rail units Project design and commissioning with ETS5 or a more recent version.</p> <p style="text-align: right;">IPS 300 SREG</p> <ul style="list-style-type: none"> KNX Data Secure compatible with ETS 5.7.3 or higher KNX IP Secure compatible with ETS 5.7.3 or higher
		<p>Remote access licence for IP interface ref.-no.: IPS 300 SREG (V05 or higher) for power supply with IP interface ref.-no.: 20320 1S IPS R (V02 or higher)</p> <p style="text-align: right;">IPS-L</p> <p>Remote access to the building technology via JUNG server in Germany.</p> <p>In combination with IP interface (ref.-no. IPS 300 SREG) or power supply with IP interface (ref.-no. 20320 1S IPS R):</p> <ul style="list-style-type: none"> Encrypted access to KNX devices for configuration and maintenance outside the local network Enabling access via communication objects Feedback on access and programming processes via communication objects
		<p>KNX IP router Rail mounting device, 2 rail units Project design and commissioning with ETS5 or a more recent version. ETS product family: System components Product type: IP router</p> <p style="text-align: right;">IPR 300 SREG</p> <ul style="list-style-type: none"> KNX Data Secure compatible with ETS 5.7.3 or higher KNX IP Secure compatible with ETS 5.7.3 or higher
		<p>KNX area / line coupler Rail mounting device, 2 rail units ETS product family: System components Product type: Line coupler</p> <p style="text-align: right;">2142 REG</p> <ul style="list-style-type: none"> KNX Data Secure compatible with ETS 5.7.3 or higher










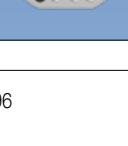
KNX Actuators









	Ref.-no.	
		<p>KNX switch actuator, 2-gang Rail mounting device, 4 rail units 2 NO contacts with manual mechanical operation and status indicator ETS product family: Output Product type: Binary output</p> <p style="text-align: right;">2302.16 REGHM</p>
		<p>KNX switch actuator, 4-gang Rail mounting device, 4 rail units 4 NO contacts with manual mechanical operation and status indicator ETS product family: Output Product type: Binary output</p> <p style="text-align: right;">2304.16 REGHM</p>
		<p>KNX switch actuator, 8-gang Rail mounting device, 8 rail units 8 NO contacts with manual mechanical operation and status indicator ETS product family: Output Product type: Binary output</p> <p style="text-align: right;">2308.16 REGHM</p>
		<p>KNX switch actuator with C-load, 4-gang with current detection Rail mounting device, 4 rail units 4 NO contacts with manual mechanical operation and status indicator ETS product family: Output Product type: Binary output</p> <p style="text-align: right;">2304.16 REGCHM</p>
		<p>KNX switch actuator with C-load, 8-gang with current detection Rail mounting device, 8 rail units 8 NO contacts with manual mechanical operation and status indicator ETS product family: Output Product type: Binary output</p> <p style="text-align: right;">2308.16 REGCHM</p>
		<p>KNX switch actuator 6-gang KNX blinds actuator 3-gang Rail mounting device, 4 rail units with manual electronic operation and LED status indication Project design and commissioning with ETS5 or a more recent version. ETS product family: Output Product type: Binary output</p> <p style="text-align: right;">23006 1S R</p> <ul style="list-style-type: none"> KNX Data Secure compatible with ETS 5.7.3 or higher
		<p>KNX switch actuator 16-gang KNX blinds actuator 8-gang Rail mounting device, 8 rail units with manual electronic operation and LED status indication Project design and commissioning with ETS5 or a more recent version. ETS product family: Output Product type: Binary output</p> <p style="text-align: right;">23016 1S R</p> <ul style="list-style-type: none"> KNX Data Secure compatible with ETS 5.7.3 or higher

	Ref.-no.
	<p>KNX switch actuator 24-gang KNX blinds actuator 12-gang Rail mounting device, 12 rail units with manual electronic operation and LED status indication Project design and commissioning with ETS5 or a more recent version. ETS product family: Output Product type: Binary output 23024 1S R</p> <ul style="list-style-type: none"> • KNX Data Secure compatible with ETS 5.7.3 or higher
	<p>KNX blinds actuator, 4-gang DC 12-48 V Rail mounting device, 4 rail units with manual electronic operation and LED status indication Only with the ETS 3.0d version or later versions the full functionality will be available. ETS product family: Shutter Product type: Shutter 2424 REGHE</p>
	<p>KNX blinds actuator, 2-gang AC 110 – 230 V, 1-gang DC 12 – 48 V Rail mounting device, 4 rail units with manual electronic operation and LED status indication Only with the ETS 3.0d version or later versions the full functionality will be available. ETS product family: Shutter Product type: Shutter 2502 REGHE</p>
	<p>KNX blinds actuator, 4-gang AC 110 – 230 V, 2-gang DC 12 – 48 V Rail mounting device, 4 rail units with manual electronic operation and LED status indication ETS product family: Shutter Product type: Shutter 2504 REGHE</p>
	<p>KNX blinds actuator, 4-gang AC 110 – 230 V, 2-gang DC 12 – 48 V Rail mounting device, 4 rail units with manual electronic operation and LED status indication Blind/shutter correction for lower end position (e.g. for ventilation position for roller blinds) Only with the ETS 3.0d version or later versions the full functionality will be available. ETS product family: Shutter Product type: Shutter 2514 REGHE</p>
	<p>KNX blinds actuator, 8-gang AC 110 – 230 V, 4-gang DC 12 – 48 V Rail mounting device, 8 rail units with manual electronic operation and LED status indication ETS product family: Shutter Product type: Shutter 2508 REGHE</p>
	<p>KNX shutter actuator 4-gang AC 110-230 V Rail mounting device, 4 rail units with manual electronic operation and LED status indication ETS product family: Shutter Product type: Shutter 2504 REGHER</p>
	<p>KNX LED universal dimming actuator / speed regulator, 1-gang 1 x 500 W, HV LED lamps typ. 3 ... 100 W Rail mounting device, 4 rail units ETS product family: Illumination Product type: Dimmer 3901 REGHE</p>











	Ref.-no.
	<p>KNX LED universal dimming actuator, 2-gang 2 x 300 W, HV LED lamps typ. 2 x 3 ... 60 W Rail mounting device, 4 rail units ETS product family: Illumination Product type: Dimmer 3902 REGHE</p>
	<p>KNX LED universal dimming actuator, 4-gang 4 x 225 W, HV LED lamps typ. 4 x 1 ... 35 W (leading edge phase control), 4 x 1 ... 200 W (trailing edge phase control) 1 x 855 W with manual electronic operation and LED status indication Project design and commissioning with ETS5 or a more recent version. Rail mounting device, 4 rail units ETS product family: Illumination Product type: Dimmer 39004 1S R</p> <ul style="list-style-type: none"> • KNX Data Secure compatible with ETS 5.7.3 or higher
	<p>KNX LED dimming actuator 4-gang 3904 EB LED Available until 2nd quarter 2022 Successor: 39005 1S LED E available as of 1st quarter 2022</p>
	<p>KNX LED dimming actuator 4-gang Rail mounting device, 4 rail units 3904 REG LED</p> <ul style="list-style-type: none"> • LED dimmer for controlling LEDs and LED modules 12 – 24 V (pulse width-modulated PWM) • Possible channel combinations: <ul style="list-style-type: none"> – 4 x independent channels – 2 x Tunable White channels – 2 x independent channels, 1 x Tunable White channel – 1 x RGB channel, 1 x independent channel – 1 x RGBW channel <p>Available until 2nd quarter 2022 Successor: 39005 1S LED R available as of 1st quarter 2022</p>
	<p>KNX control unit 1 – 10 V, 4-gang Rail mounting device, 4 rail units ETS product family: Illumination Product type: Dimmer 2194 REGHM</p>
	<p>KNX DALI gateway TW Rail mounting device, 4 rail units with manual electronic operation and LED status indication ETS product family: Illumination Product type: Dimmer New in V 02: compatible with DALI-2 acc. to IEC 62386 2099 REGHE</p>
	
	<p>DALI transformer for LV halogen lamps D SNT 105</p>
	<p>Technical data Rated capacity: 35 ... 105 W Rated voltage: AC 230/240 V ~, 50/60 Hz</p>
	<p>KNX fan coil actuator 2-gang Rail mounting device, 4 rail units with manual electronic operation and LED status indication ETS product family: Heating, A/C, Ventilation Product type: Fan-coil FCA 2 REGHE</p>











	Ref.-no.
	<p>KNX room actuator 110-230 V Rail mounting device, 4 rail units with manual electronic operation and LED status indication ETS product family: Output Product type: Binary output RA 23024 REGHE</p>
	<p>KNX multi station Rail mounting device, 4 rail units 23066 REGHE</p> <ul style="list-style-type: none"> • Actuator functions: switching, blinds, electrothermal drives • Max. 6 switching outputs • Max. 3 blinds outputs • Integrated push-button interface with 6 inputs • 2 integrated room temperature controllers • 2 inputs for temperature sensors (ref.-no. FF 7.8) • Logic functions to control building functions • Scene function
	<p>KNX heating actuator, 6-gang Rail mounting device, 4 rail units 6 outputs "TRIAC" with manual electronic operation and LED status indication ETS product family: Heating, A/C, Ventilation Product type: Valve 2336 REG HZ HE</p> <p>Switching of electrothermal drives e.g. TVA 230 NC WW</p>
	<p>KNX heating actuator, 6-gang with controller Rail mounting device, 4 rail units 6 outputs "TRIAC" with manual electronic operation and LED status indication ETS product family: Heating, A/C, Ventilation Product type: Valve 2336 REG HZR HE</p> <p>Switching of electrothermal drives e.g. TVA 230 NC WW</p>
	<p>KNX analogue actuator, 4-gang Rail mounting device, 4 rail units ETS product family: Output Product type: Analogue output 4-gang 2204.01 REGA</p> <p>The analogue output needs 24 V AC for operation. The necessary power can be supplied by the power supply unit ref.-no.: WSSV 10.</p>
	<p>Analogue actuator module, 4-gang Rail mounting device, 4 rail units 2204.01 REGAM</p> <p>Extension module for analogue actuator 4-gang ref.-no.: 2204.01 REGA</p>
	<p>KNX switch actuator, 1-gang ETS product family: Output Product type: Binary output 23001 1S U</p> <ul style="list-style-type: none"> • KNX Data Secure compatible
	<p>KNX switch actuator, 2-gang</p>
	<p>KNX blinds actuator, 1-gang ETS product family: Output Product type: Binary output 23002 1S U</p> <ul style="list-style-type: none"> • KNX Data Secure compatible
	<p>KNX universal dimming actuator, 1-gang ETS product family: Illumination Product type: Dimmer 39001 1S U</p> <ul style="list-style-type: none"> • KNX Data Secure compatible

	Ref.-no.
	<p>KNX valve drive (motor-operated) with controller electromechanical servo drive ETS product family: Heating, A/C, Ventilation Product type: Valve 2177 SV R</p>
	<p>Motion detector mini basic white  BM 360 MB WW</p> <ul style="list-style-type: none"> • Brightness-independent detection of motions in interior areas • Connection to KNX e.g. multi station or push-button interface for automatic switching of loads • Power supply via unchoked output of a (KNX) power supply with SELV • Clamp mounting in suspended ceilings • Ceiling installation on fixed ceilings in flush box according to EN 60670-1 with flush mounting set (ref.-no.: PMM-UP-SET-WWW) • Surface-mounted ceiling installation with surface mounting set (ref.-no.: PMM-AP-SET-WWW)
	<p>Condensation sensor BTS 01</p> <ul style="list-style-type: none"> • Detection of water condensation on coolant lines in residential or functional buildings • Connection to KNX push-button interfaces or other binary inputs with 5 V polling voltage (e.g. 2177 SV R, 2076-2 T, 2076-4 T, .. 2178 TS ..., .. 2178 ORTS ..., CO2 .. 2178 ..) • Fitting on the coolant line
	<p>Leakage sensor LES 01</p> <ul style="list-style-type: none"> • Detection of water penetration and leaks • Connection to KNX push-button interfaces or other binary inputs with 5 V polling voltage (e.g. 2177 SV R, 2076-2 T, 2076-4 T, .. 2178 TS ..., .. 2178 ORTS ..., CO2 .. 2178 ..) • Fitting to the surface to be monitored
	<p>Magnet contact white, similar RAL 9016 FUS 4410 WW brown, FUS 4410 BR</p>
	<p>KNX binary input, 6-gang Rail mounting device, 2 rail units 6 inputs AC/DC 10 ... 230 V ~ (different L conductors possible, e.g.: E1-3 = L1 and E4-E6 = L2) with status indicator ETS product family: Input Product type: Binary input 2116 REG</p>
	<p>KNX binary input, 8-gang Rail mounting device, 4 rail units 8 inputs 12 ... 48 V AC/DC Auxiliary voltage output DC 24 V (SELV) for polling potential-free contacts with status indicator ETS product family: Input Product type: Binary input 2128 REG</p>

KNX Sensors Weather station

	Ref.-no.
	<p>KNX push-button interface, 2-gang ETS product family: Input Product type: Binary input 2076-2 T</p>
	<p>KNX push-button interface, 4-gang ETS product family: Input Product type: Binary input 2076-4 T</p>
	<p>KNX energy detector, 3-gang Rail mounting device, 4 rail units ETS product family: Physical sensors Product type: Energy detector 2103 REG ES</p> <p>3 inputs AC 110 ... 240 V ~ Direct measurement (without transformer) up to 16 A Transformer measurement (with external 75 A transformer, ratio 75:5, e.g. Phoenix Contact order key 2277611)</p>
	<p>KNX universal weather station compact housing including fastening arm and connection cable ETS product family: Physical sensors Product type: Weather station 2225 WS U</p> <p>The weather station needs an operating voltage supply of 24 V AC, for example power supply module ref.-no. WSSV 10.</p>
	<p>Fastening arm (Spare part) for installation of the universal weather station, ref.-no.: 2225 WSU 2225 BFA</p>
	<p>Connection cable Cable type: LiYCY 4xAWG26 Cable length: 5 m 2225 CAB</p>
	<p>KNX weather station "home" 2224 WH</p> <p>The power supply ref.-no.: WSSV 10 is necessary for precipitation detection.</p>
	<p>Technical data Rated voltage: AC/DC 24 V SELV Power consumption: typical 7.5 W</p>
	<p>Connection set for weather station home ref.-no.: 2224 WH for pole mounting 50 – 120 mm Ø MM 100</p>

KNX Weather station

	Ref.-no.
	<p>KNX analogue input, 4-gang Rail mounting device, 4 rail units ETS product family: Input Product type: Analogue input 4-gang 2214 REG A</p> <p>The analogue input needs a separate power supply, for example the power supply module ref.-no. WSSV 10.</p>
	<p>Analogue input extension module, 4-gang Rail mounting device, 4 rail units extension module for analogue input 2214 REGAM</p>
	<p>Power supply AC 24 V ~ for universal weather station ref.-no.: 2225 WS U for weather station home ref.-no.: 2224 WH for analogue input ref.-no.: 2214 REG A for analogue actuator ref.-no.: 2204.01 REGA Rail mounting device, 4 rail units WSSV 10</p>
	<p>Wind sensor WS 10 W</p>
	<p>Brightness sensor Rated voltage 24 V DC range 0 ... 60 000 lux, linear 58 x 35 x 64 mm WS 10 H</p>
	<p>Dawn sensor Rated voltage 24 V DC range 0 ... 255 lux, linear 58 x 35 x 64 mm WS 10 D</p>
	<p>Temperature sensor Rated voltage 24 V DC range -30 °C ... +70 °C, linear 58 x 35 x 64 mm WS 10 T</p>
	<p>KNX signal panel ETS product family: Display Product type: Signal panel glass green MBT 2424 glass white MBT 2424 WW glass black MBT 2424 SW</p> <p>The glass panel with aluminium housing is equipped with 24 capacitive sensor buttons and 24 status LEDs.</p>
	<p>Surface-mounted housing for signal panel ref.-no.: MBT 2424 .. light grey similar RAL 7035 EBG 2424</p>
	<p>Flush-mounted power supply for signal panel ref.-no.: MBT 2424 .. NT 2405 VDC</p>

Smart Panel 8



SMART PANEL 8

Centrally on the wall and decentrally with a tablet or smartphone in the local network: the JUNG Smart Panel 8 provides comprehensive possibilities for intuitively controlling the KNX system. It fits in the existing flush-mounted housing EBG 24, SC 7 EBG and can be mounted on standard device boxes according to EN 60670-1. The recommended box depth is around 60 millimetres.

KNX Smart Panel Smart Control

Ref.-no.

KNX Smart Panel 8

SP 0081 U

Intended use

- Visualisation and operation of system statuses and information on building automation
- For horizontal installation (recommended) or vertical installation
- Mounting in flush-mounted recessed box (ref.-no. EBG 24 or SC 7 EBG) or on flush box according to EN 60670-1 (recommendation: approx. 60 mm deep)



Product characteristics

- High performance HD screen
- Proximity sensor
- Capacitive touchscreen
- Cleaning mode with touch screen lock
- Fanless, without rotating parts
- Integrated bus coupling unit
- Graphical user interface for visualisation and operation of KNX devices
- Project design with Windows software "KNX Smart Panel Designer"
- Commissioning with ETS version 5.7.4 or higher and DCA
- KNX special functions, e.g. scenes, sequences, central function, presence simulation
- Rooms or elements: max. 300
- Structure with several rooms or as single room
- Time tables: max. 125 with 10 commands each
- Logic operations: max. 55
- Astronomical clock
- Visualisation of indoor and outdoor temperature
- Automatic temperature average per room
- Notifications (alarm, warning, information)
- Favourites page
- Light / dark colour scheme
- Two-level configuration access (admin / user)
- User management
- User (PIN codes): max. 10
- PIN protection for rooms / elements
- Backup and restore
- Mobile app (local access)
- App users per installation: max. 10

Flush-mounted recessed box

for Smart Panel ref.-no.: SP 0081 U
for Smart Control ref.-no.: SC 0081 U
cut-out dimensions (W x H): 212 x 124 mm
installation depth: 75 mm

EBG 24

Smart Control 5

for installation in walls, capacitive touch screen
fanless, without rotating parts
black

SC 5 SW

- For vertical installation
- Installation in flush box according to EN 60670-1
- KNX visualisation in combination with Visu Pro Server (ref.-no.: JVP-SERVER-H2)
- KNX visualisation in combination with Smart Visu Server (ref.-no.: SV-SERVER-INT)
- eNet visualisation in combination with eNet server for rail mounting (ref.-no.: ENET-SERVER) with software version 2.2 or higher
- Door call function only in combination with Siedle Smart Gateway SG 650-.. or SG 150-..



KNX Smart Control

Ref.-no.

Flush-mounted power supply

for Smart Control
ref.-no.: SC 5 SW

NT 2405 VDC

Power supply for rail mounting

for Smart Panel ref.-no.: SP 0081 U
for Smart Control
ref.-no.: SC 5 SW, SC 0081 U
rail mounting device, 4 rail units

NT 2415 REG VDC

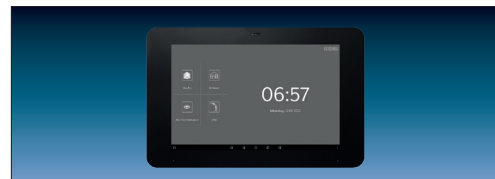
Smart Control 8

black

SC 0081 U

Intended use

- Visualisation and operation of system statuses and information on building automation
- For horizontal installation (recommended) or vertical installation
- Mounting in flush-mounted recessed box (ref.-no. EBG 24 or SC 7 EBG) or on flush box according to EN 60670-1 (recommendation: approx. 60 mm deep)



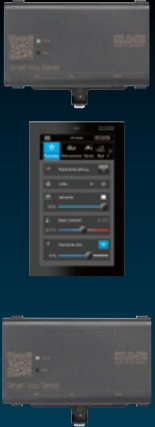


Product characteristics


- High performance HD screen
- Proximity sensor
- Capacitive touchscreen
- Cleaning mode with touch screen lock
- KNX visualisation in combination with Visu Pro Server (ref.-no.: JVP-SERVER-H2)
- KNX visualisation in combination with Smart Visu Server (ref.-no.: SV-SERVER-INT)
- eNet visualisation in combination with eNet server for rail mounting (ref.-no.: ENET-SERVER) with software version 2.2 or higher
- Door call function only in combination with Siedle Smart Gateway SG 650-.. or SG 150-..
- Display of up to six IP camera images
- Smart Gateway with integrated image storage


Technical data




Screen diagonal:	203 mm / 8"
Resolution:	1280 x 800 (WXGA)
Aspect ratio:	16:10
Overall dimensions (W x H):	225 x 145 mm
Profile height:	16 mm
Installation depth:	22 mm
Power consumption:	max. 16 W
Power supply:	DC 12 ... 32 V SELV via external power supply (ref.-no. NT 2415 REG VDC, not included)
Operating system:	Android 6
Processor:	Cortex-A53
Main memory:	2 GB
Mass storage:	16 GB Flash (available disc space depends on operating system)
Loudspeaker:	integrated
Microphone:	integrated
USB ports:	1 x USB 2.0 type A 1 x Mini-USB OTG
LAN connections:	1 x 10/100/1000 Mbit/s
Ambient temperature:	0 ... +30 °C
Atmospheric humidity:	5 ... 80 % (no condensation)



	Ref.-no.
	<p>SV-Server set Smart Control 5 consists of Smart Visu Server (ref.-no.: SV-SERVER-..) and Smart Control 5 (ref.-no.: SC 5 SW) black, SV-S-SC 5 SW black, including adapter for UK and China SV-S-INT-SC 5 SW</p>
	<p>Smart Visu Server with mounting plate for wall or rail mounting installation including plug-in power supply with Europlug SV-SERVER including adapter for UK and China SV-SERVER-INT</p> <ul style="list-style-type: none"> • Visualisation and operation of KNX systems via devices with HTML5 browser or app (iOS, Android), e.g. Smart Control (ref.-no.: SC 5 SW, SC 0081 U), smartphone, tablet, laptop, PC, etc. • Visualisation and operation of Philips Hue systems • Operation in local IP networks that support DHCP (Dynamic Host Configuration Protocol), or with static IP address (IPv4) • Connection to KNX bus via interfaces (ref.-no. IPR 300 SREG, IPS 300 SREG, 20320 1S IPS R), not included
	<p>Smart Visu Server remote access licence unlimited SV-SERVER-L Remote access to the building technology via JUNG server in Germany.</p>

	Ref.-no.
	<p>Visu Pro Server fanless, without rotating parts including plug-in power supply English, including adapter for UK and China JVP-SERVER-H2GB</p> <p>Intended use</p> <ul style="list-style-type: none"> • Visualisation and operation of KNX systems via devices with HTML5 browser or app (iOS, Android), e.g. Smart Control (ref.-no.: SC 5 SW, SC 0081 U), smartphone, tablet, laptop, PC, etc. • Support of KNX IP Secure and KNX Data Secure (as of version 4.5) • Operation in local IP networks that support DHCP (Dynamic Host Configuration Protocol), or with static IP address (IPv4) • Desktop device, mounting on DIN rail according to EN 60715 possible • Max. size of the visualisation project as template in JUNG Smart Assistant • Connection to KNX bus via interfaces (ref.-no. IPR 300 SREG, IPS 300 SREG, 20320 1S IPS R, 2131 USBS REG, 2131 USBS), not included <p>Product characteristics</p> <ul style="list-style-type: none"> • Fanless mini PC • JUNG Visu Pro software pre-installed and activated • Windows 10 pre-installed • Quadcore Intel Celeron processor • 4 GB RAM • 64 GB internal memory, partly used by operating system • 1 x HDMI • 4 x USB 3.0 • 2 x LAN RJ45 (LAN 1: static IP address, LAN 2: DHCP) • The visualisation can be realised with devices with a browser suitable for HTML5 (e.g. latest version of Chrome, Firefox or Safari) • Access from max. 10 different clients possible • Integration of Amazon Alexa voice control via MyJUNG account • Integration of Google Home voice control via MyJUNG account • Secure remote access via MyJUNG account • Update and upgrade compatible <p>Process connections</p> <ul style="list-style-type: none"> • KNX editor/ KNX editor 2.0 • instaight editor • Device editor • vitaLED editor • XPL editor • SENEK energy storage • Process model • Visualisation editor • Work sheet generator • Calendar • JUNG Visu Pro Starter <p>Data import from ETS</p> <ul style="list-style-type: none"> • ETS5: use of project export of ETS • ETS4: use of project export of ETS • ETS3: use of OPC export of ETS • ETS2 version 1.1, 1.2 and 1.3: files generated by "print export" can be read • Previous ETS versions: not possible

	Ref.-no.
	<p>JUNG Visu Pro Software</p> <p>Full version JVP-V Planner version JVP-P</p> <p>Note: The software can only be downloaded from the JUNG website https://www.jung.de/en/1508/service/get-your-software-licence/. When downloading, you can choose between the English and the German version. Each installation will run in demo mode for 20 days or 400 starts. For an unrestricted use the software must be activated via a MyJUNG account.</p> <p>Intended use</p> <ul style="list-style-type: none"> • Visualisation and operation of KNX systems via devices with HTML5 browser or app (iOS, Android), e.g. Smart Control (ref.-no.: SC 5 SW, SC 0081 U), smartphone, tablet, laptop, PC, etc. • Support of KNX IP Secure and KNX Data Secure (as of version 4.5) • Connection to KNX bus via interfaces (ref.-no. IPR 300 SREG, IPS 300 SREG, 20320 1S IPS R, 2131 USBS REG, 2131 USBS), not included <p>Product characteristics</p> <ul style="list-style-type: none"> • Access from max. 20 different clients possible (with Windows 10) • Integration of Amazon Alexa voice control via MyJUNG account • Integration of Google Home voice control via MyJUNG account • Secure remote access via MyJUNG account • Update and upgrade compatible <p>Process connections</p> <ul style="list-style-type: none"> • KNX editor/ KNX editor 2.0 • instalight editor • Device editor • vitalED editor • XPL editor • SENEK energy storage • Process model • Visualisation editor • Work sheet generator • Calendar • JUNG Visu Pro Starter <p>Technical requirements</p> <p>Hardware</p> <ul style="list-style-type: none"> • As for Visu Pro Server (ref.-no.: JVP-SERVER-H2) or better <p>Please note: The performance of the hardware is one of the limiting factors for the project size.</p> <p>Operating systems</p> <ul style="list-style-type: none"> • Windows 10 <p>KNX editor</p> <p>The Falcon driver of the KNX Association is used for the KNX bus. The KNX connection requires a suitable version of the Falcon driver and the respective interfaces.</p> <p>Data import from ETS</p> <ul style="list-style-type: none"> • ETS5: use of project export of ETS • ETS4: use of project export of ETS • ETS3: use of OPC export of ETS • ETS2 version 1.1, 1.2 and 1.3: files generated by "print export" can be read • Previous ETS versions: not possible

	Ref.-no.
	<p>JUNG Visu Pro Software Hotel</p> <p>Full version Hotel JVP-HOTEL</p> <p>Operating systems</p> <ul style="list-style-type: none"> • Windows 10 <p>Special function HOTEL</p> <p>Extension of the KNX editor to max. 150 KNX tunnel connections Communication via KNX IP Secure Tunnelling Integration of third-party systems:</p> <ul style="list-style-type: none"> • Door locking systems of Assa Abloy <ul style="list-style-type: none"> – Guest card identification – Staff card identification – Access counter / documentation – Evaluation of the door locking system • Hotel booking software Protel PMS <ul style="list-style-type: none"> – Guest identification per room – Receive requests from the hotel room (e.g. Do not disturb, Make up room etc.) – Change the room temperature of the PMS system • Oracle Hospitality OPERA or Oracle Hospitality Suite 8 PMS <ul style="list-style-type: none"> – Guest identification per room – Receive requests from the hotel room (e.g. Do not disturb, Make up room etc.) – Change the room temperature of the PMS system
	<p>JUNG Visu Pro remote access licence</p> <p>unlimited JVP-L</p> <p>Remote access to the building technology via JUNG server in Germany.</p>
	<p>Smart Assistant</p> <p>Smart Assistant is a planning tool for the simple creation of visualisation projects for the JUNG Visu Pro software or other automation applications. The use of conventions and schemes (trade, floor, room, function) does not require knowledge of KNX group addresses. Export formats are available for JUNG Visu Pro software and ETS group addresses.</p>
	<p>KNX product data base</p> <p>Database for ETS www.jung.de/en > Downloads > Technical Downloads</p>
	<p>Bus connection block</p> <p>red/black (for KNX) 2050 RT SW yellow/white 2050 GE WS</p>
	<p>Connection cover</p> <p>for bus terminal of rail mounting devices 2050 K</p>
	<p>Button lever</p> <p>for the simple and gentle deinstallation of rockers and covers W-KEIL</p>

Dimensions of design ranges

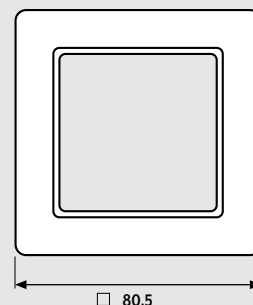
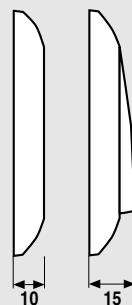
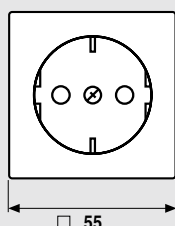
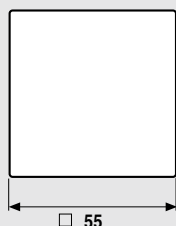
Dimensions in mm

AS 500

AS 500 breakproof
AS antibacterial

Frame size
4-gang 293.5 x 80.5 mm
5-gang 364.5 x 80.5 mm

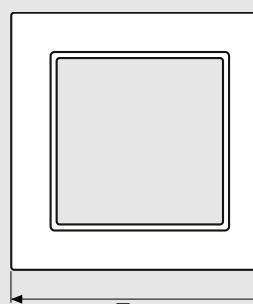
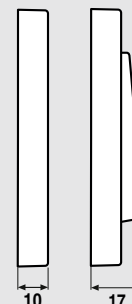
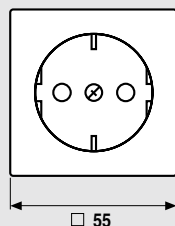
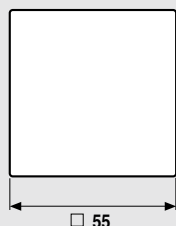
Frames can be horizontally and vertically installed.
Edge radius frame R 3.1



A 550

Frame size
4-gang 298 x 85 mm
5-gang 369 x 85 mm

Frames can be horizontally and vertically installed.
Edge radius frame R 1.25



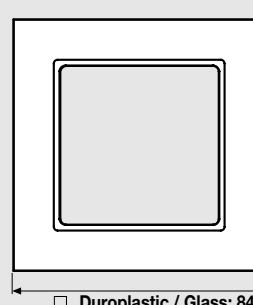
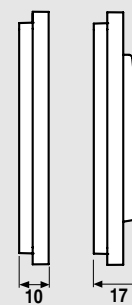
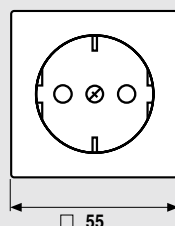
ACREATION

Frame size duroplastic and glass
4-gang 297 x 84 mm
5-gang 368 x 84 mm

ACREATION
breakproof

Frame size thermoplastic
4-gang 300 x 87 mm
5-gang 371 x 87 mm

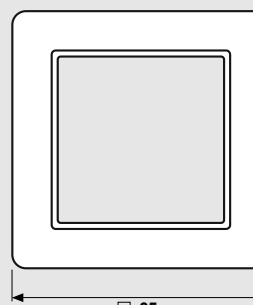
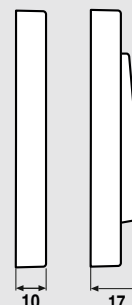
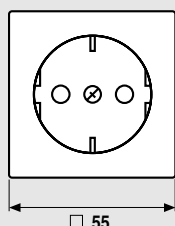
Frames can be horizontally and vertically installed.
Edge radius frame R 1.25



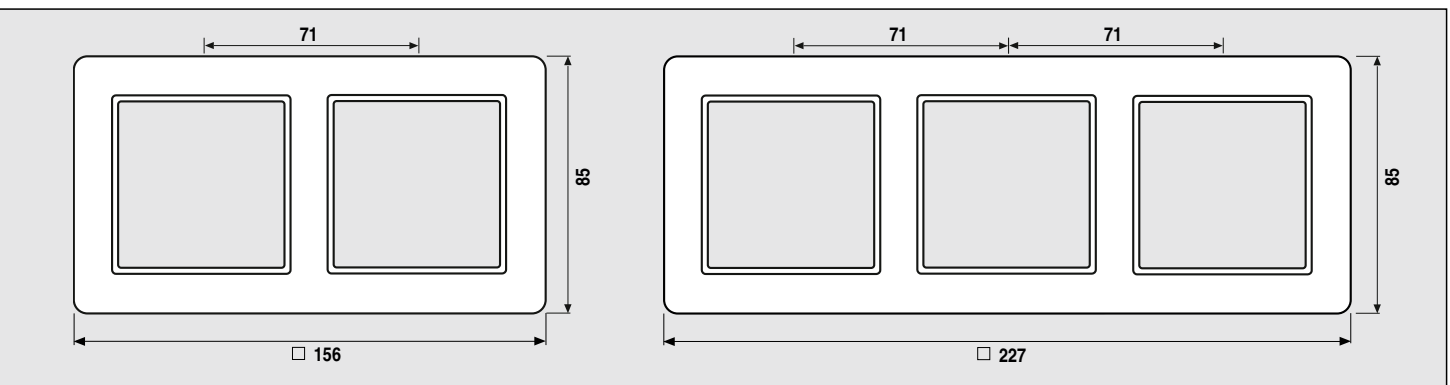
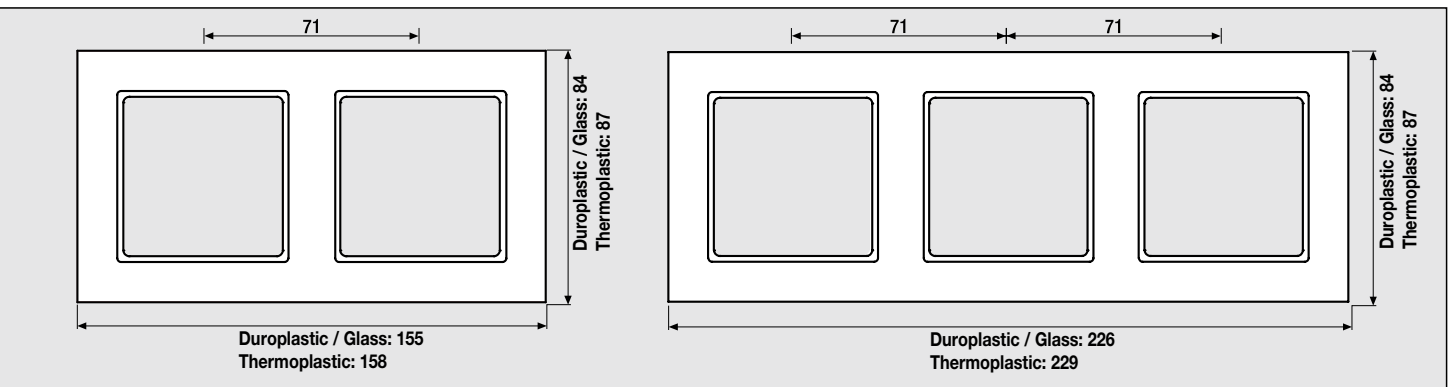
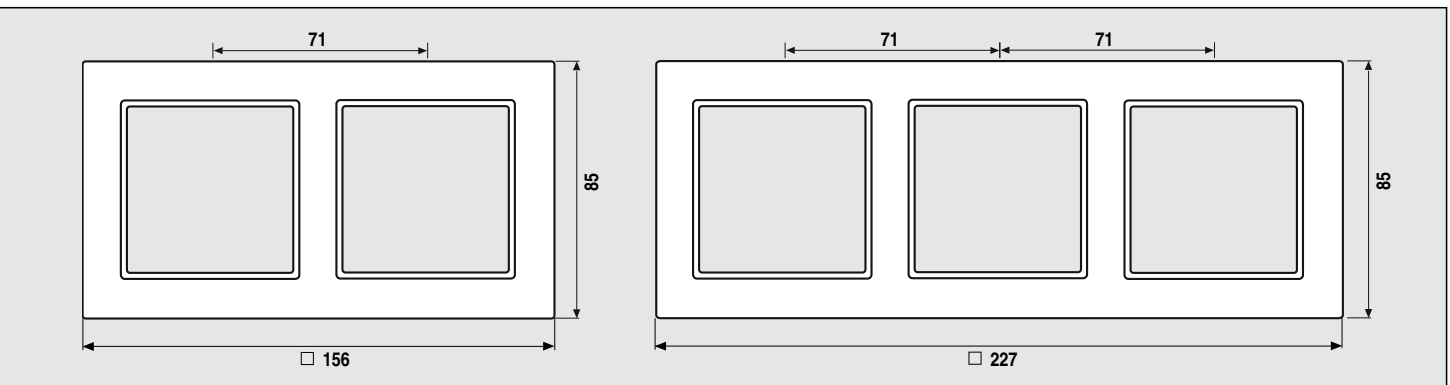
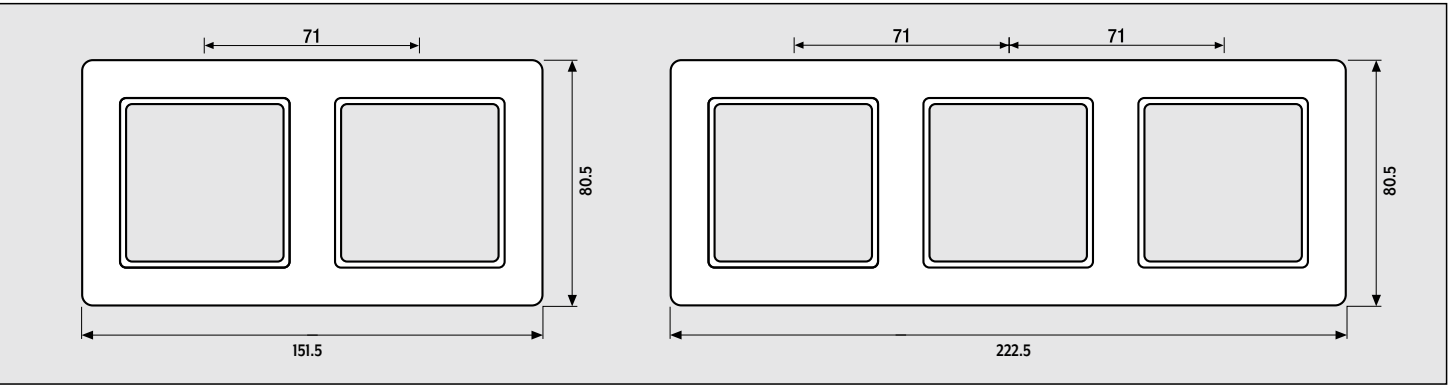
A FLOW

Frame size
4-gang 298 x 85 mm
5-gang 369 x 85 mm

Frames can be horizontally and vertically installed.
Edge radius frame R 4.5



More information on all JUNG switch ranges as well as design data sheets to download can be found on our website jung.de/design-data-sheets

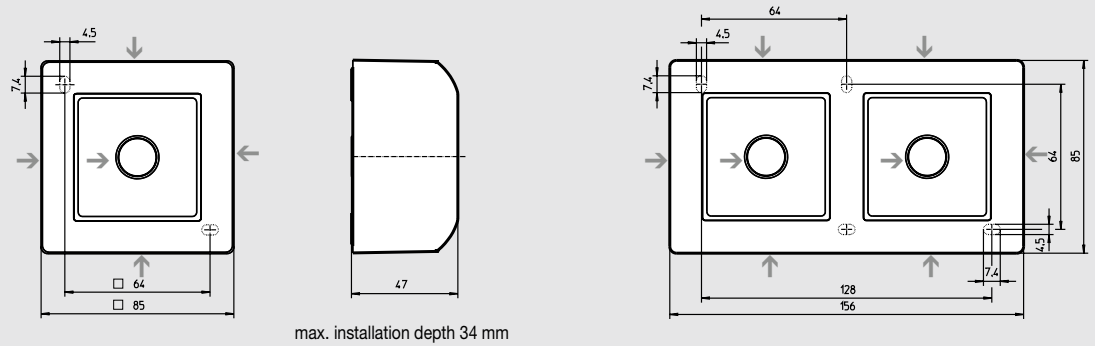


Surface caps

AS 500

Edge radius R 3

→ Cable entry

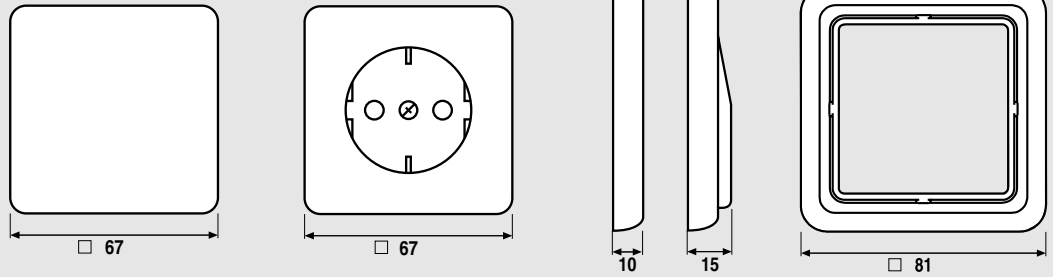


CD 500

CD 500 breakproof

Frame size
4-gang 294 x 81 mm
5-gang 365 x 81 mm

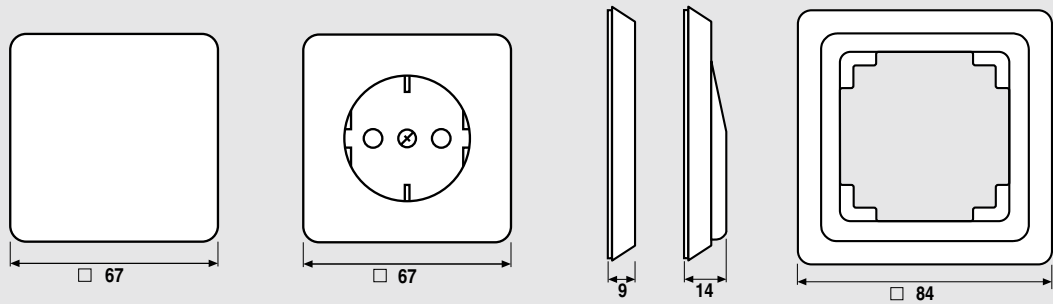
Frames can be horizontally
and vertically installed.
Edge radius frame R 8.5



CD PLUS

Frame size
4-gang 297 x 84 mm
5-gang 368 x 84 mm

Frames can be horizontally
and vertically installed.
Edge radius frame R 5.4

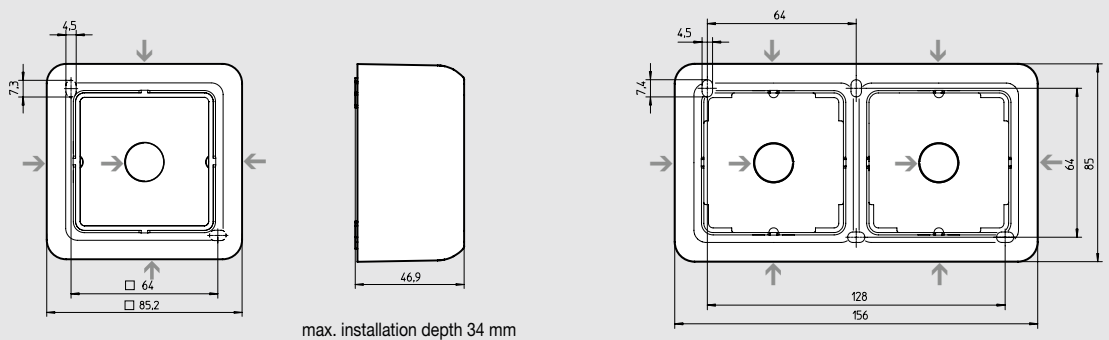


Surface caps

CD 500

Edge radius R 8.5

→ Cable entry

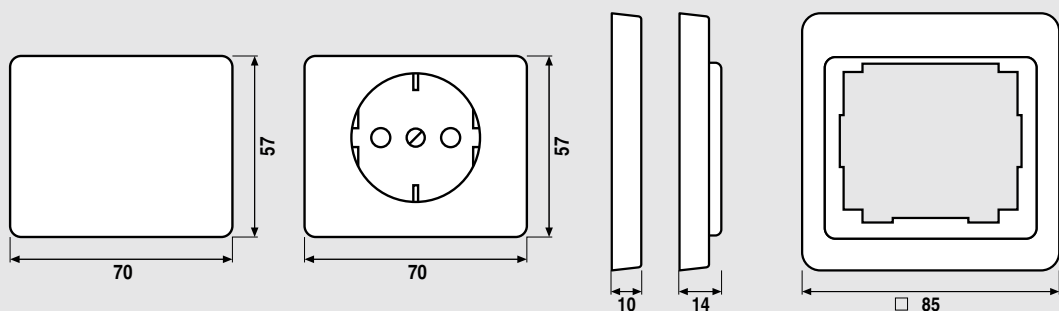


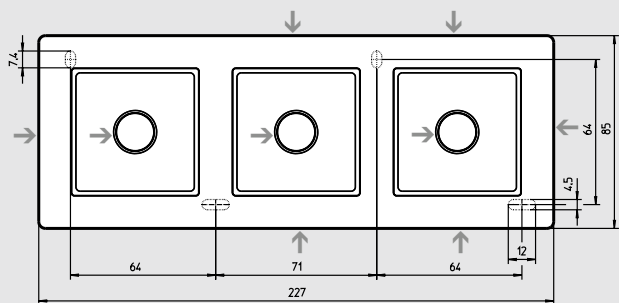
SL 500

Frame size
4-gang 298 x 85 mm
5-gang 369 x 85 mm

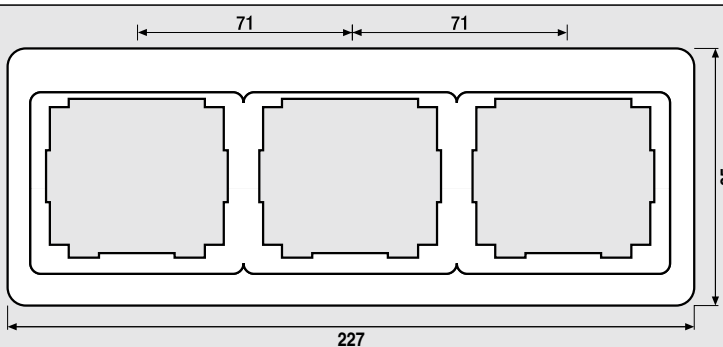
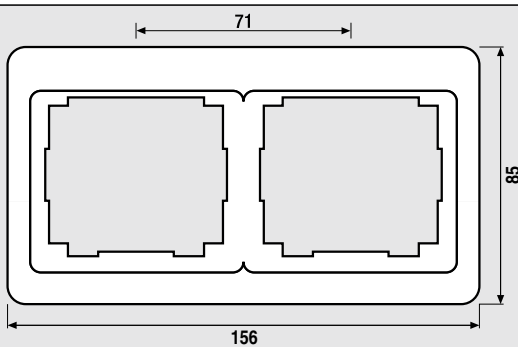
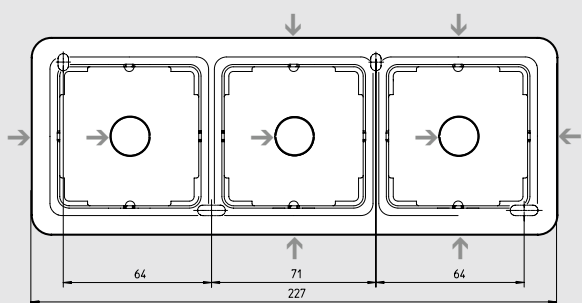
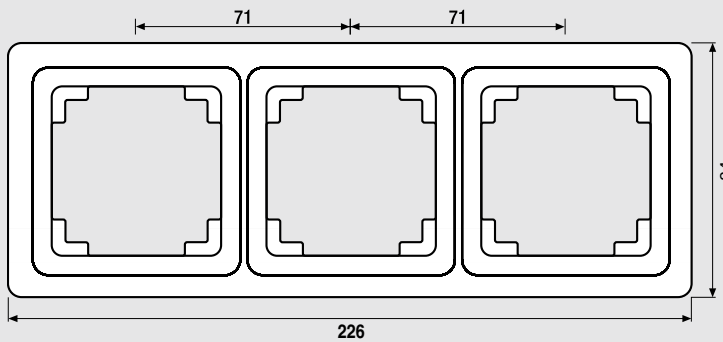
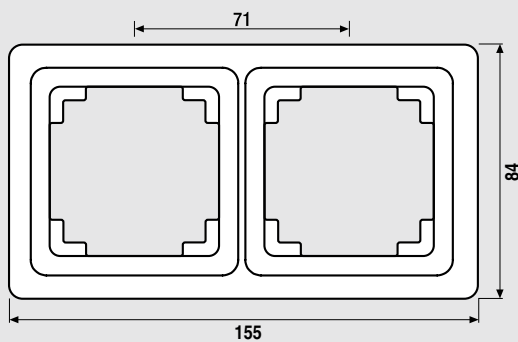
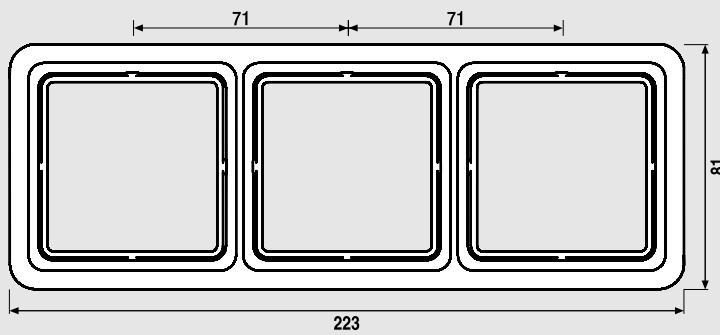
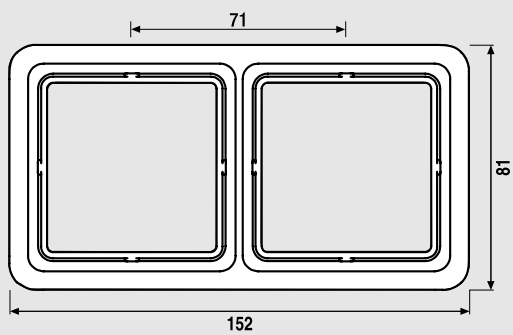
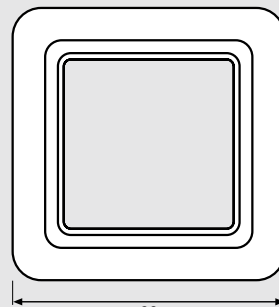
Different frames for
horizontal and vertical
installation.
Only multiple horizontal
frames are shown.

Edge radius R 5



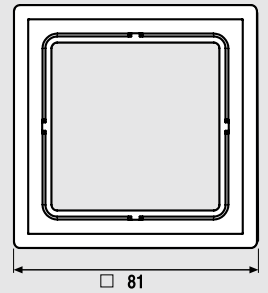
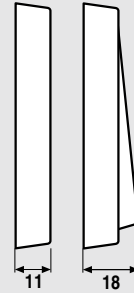
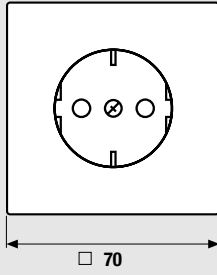
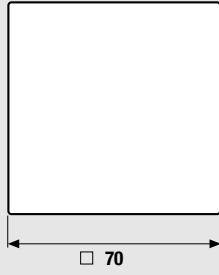


CD 681 WU



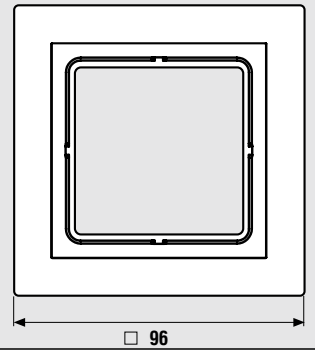
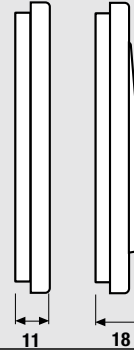
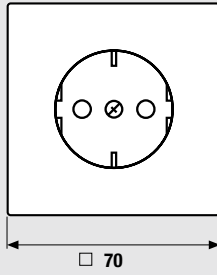
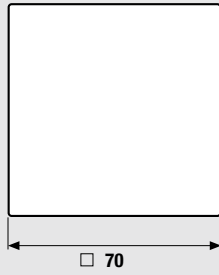
LS 990

Frame size
 4-gang 294 x 81 mm
 5-gang 365 x 81 mm
 Frames can be horizontally
 and vertically installed.
 Edge radius frame
 LS 990 R 2
 Aluminium / Anthracite /
 Brass R 1.5
 Stainless steel R 2
 Chrome R 2
 Gold-coloured R 2
 Gold 24 Carat R 2



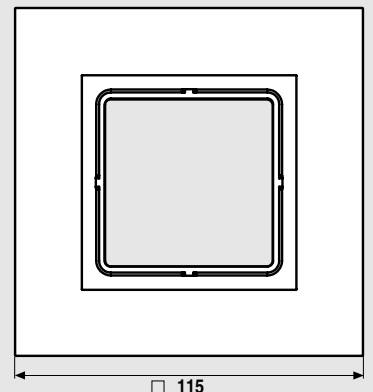
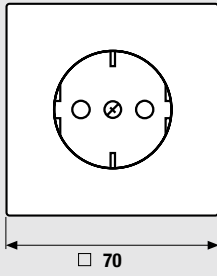
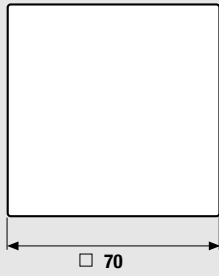
LS DESIGN

Available frames:
 Duroplastic: 1 to 5-gang
 Thermo: 1 to 3-gang
 Metal: 1 to 3-gang
 Lacquered metal: 4 to 5-gang
 Frame size
 4-gang 309 x 96 mm
 5-gang 380 x 96 mm
 Frames can be horizontally
 and vertically installed.
 Edge radius frame R 1.5



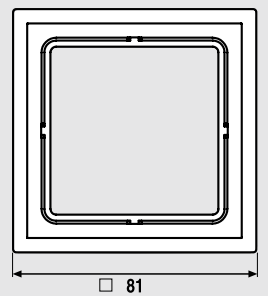
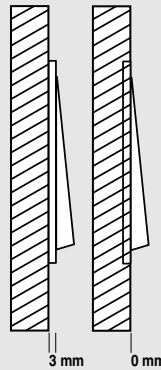
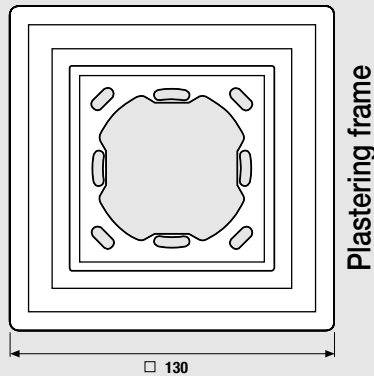
LS PLUS

Frame size
 4-gang 328 x 115 mm
 5-gang 399 x 115 mm
 Frames can be horizontally
 and vertically installed.
 Edge radius frame fase 0.5 x 45°



LS ZERO

Frames can be horizontally
 and vertically installed.
 Edge radius frame R 2

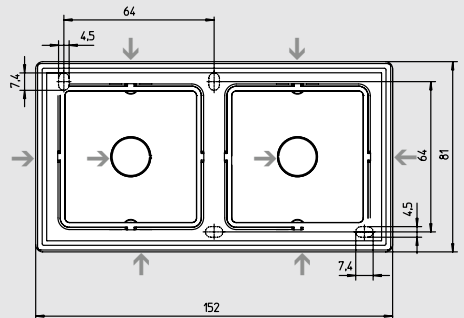
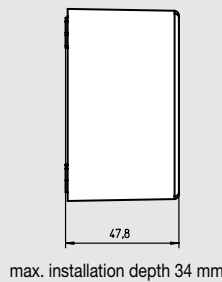
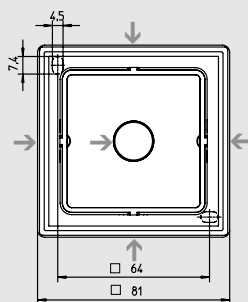


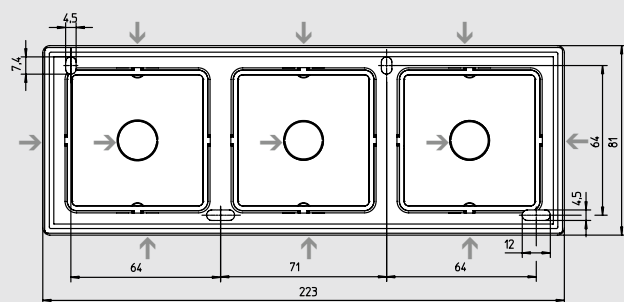
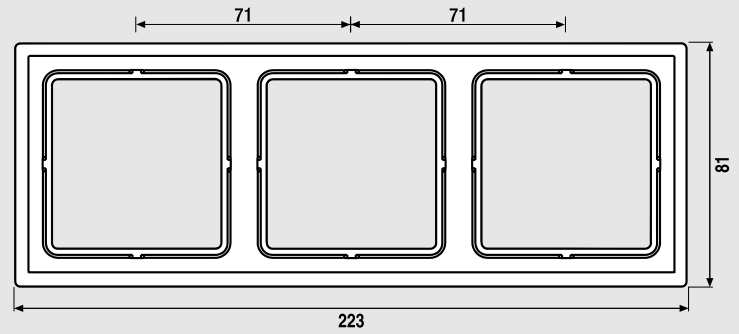
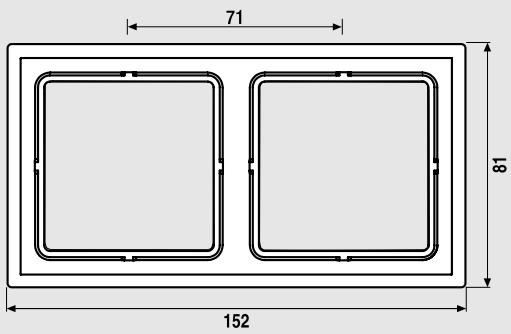
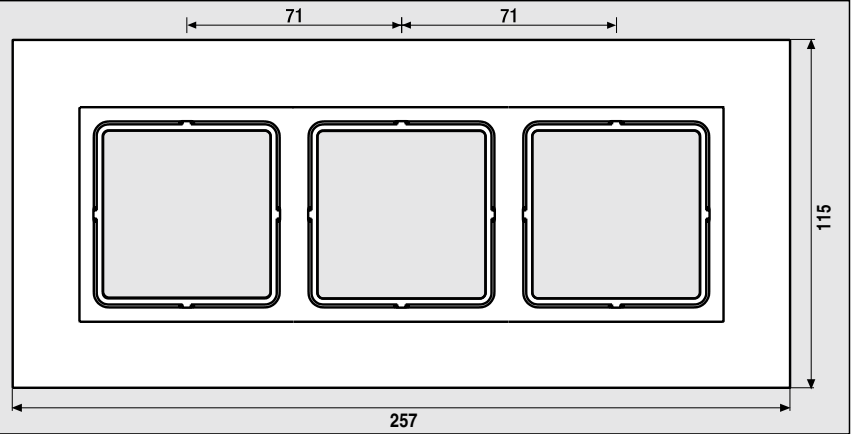
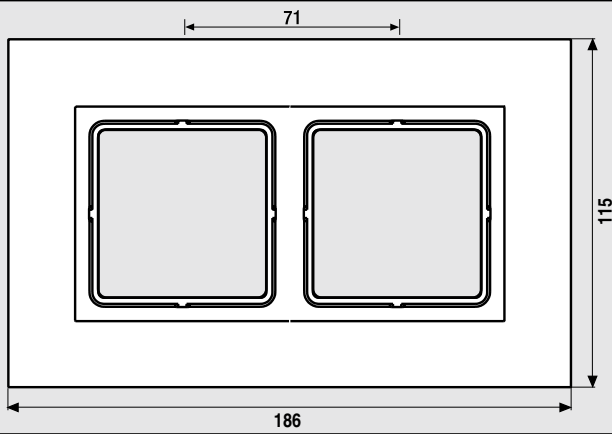
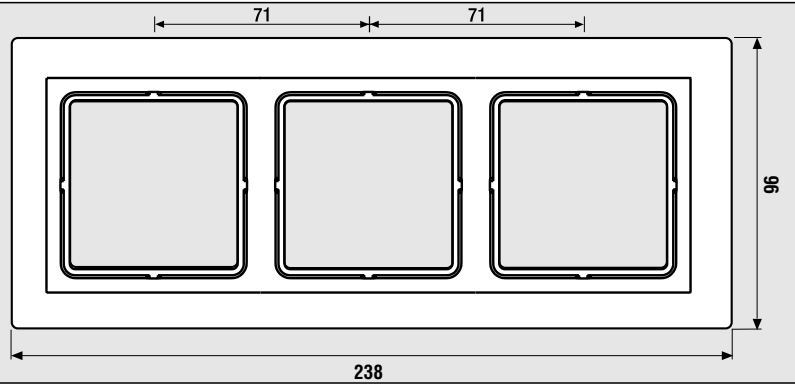
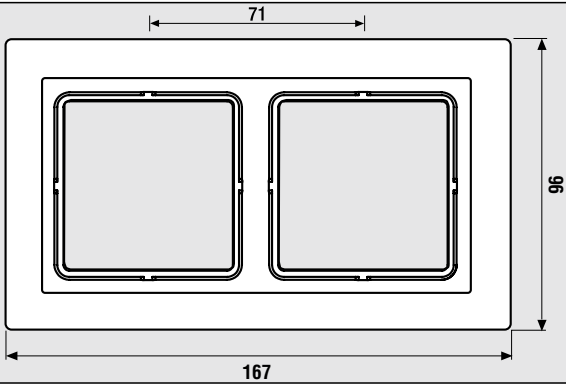
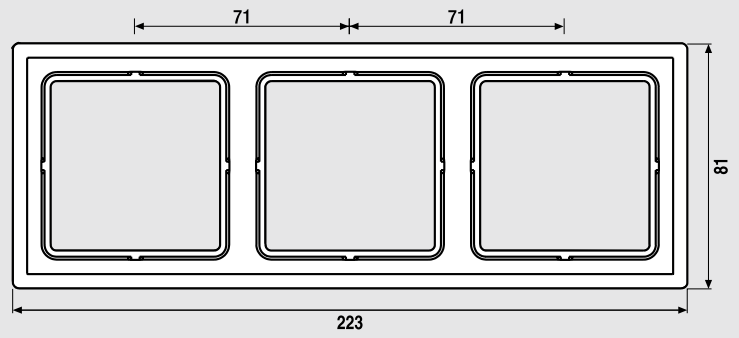
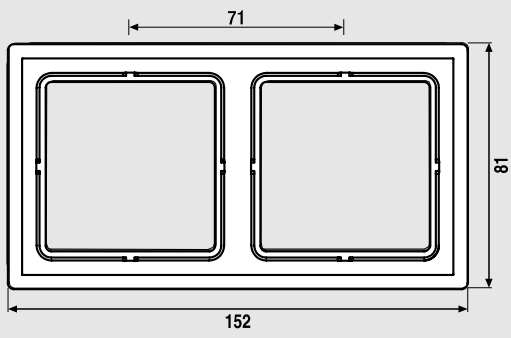
Surface caps

LS CUBE

Edge radius R 0.2

→ Cable entry

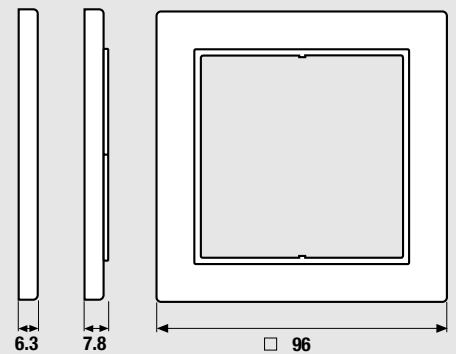




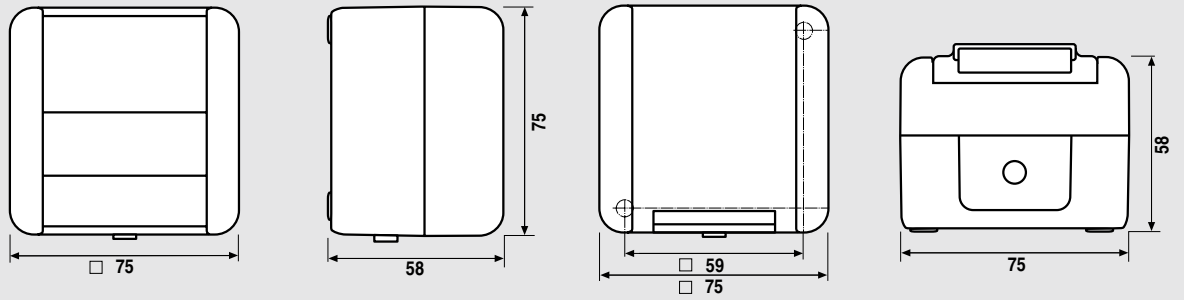
FLAT DESIGN

Frame size
 2-gang 167 x 96 mm
 3-gang 238 x 96 mm

Frames can be horizontally
 and vertically installed.
 Edge radius frame R 1.5

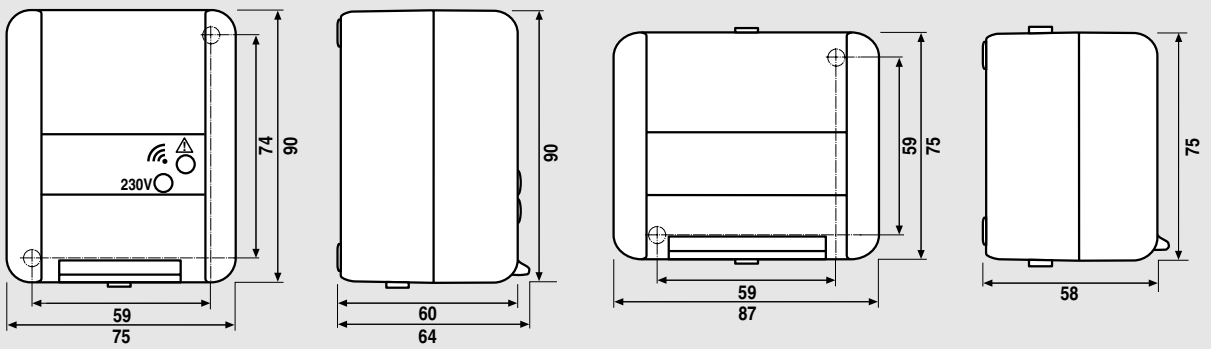


WG 800



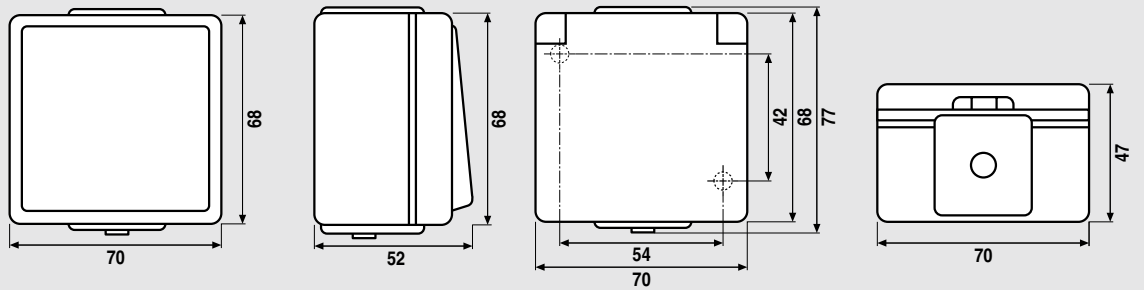
Edge radius R 7

WG 800



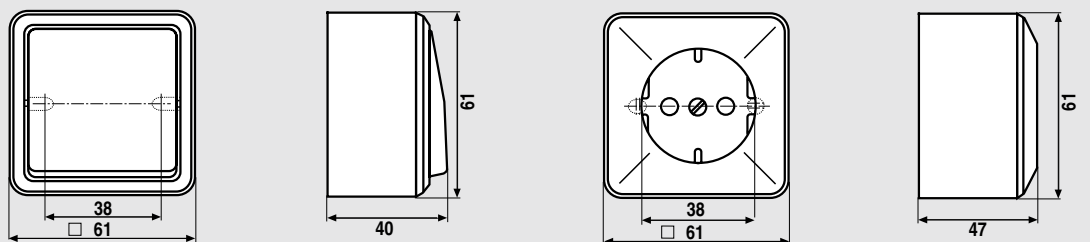
Edge radius R 7

WG 600

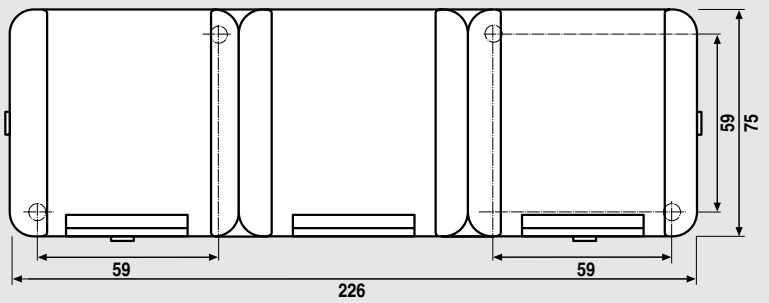
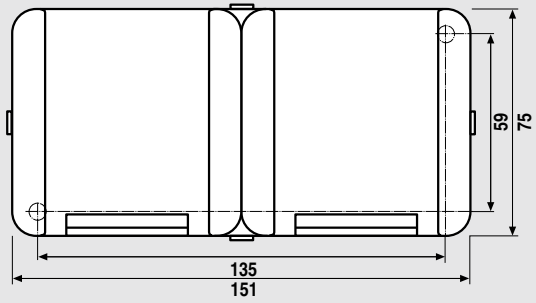


Edge radius R 4

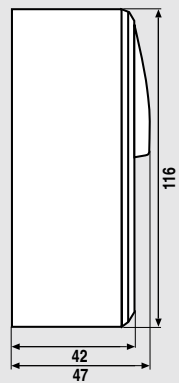
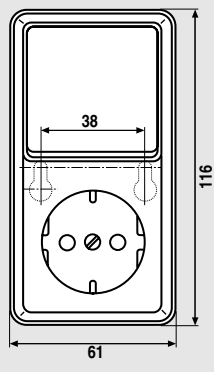
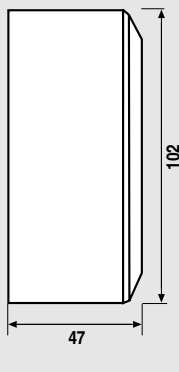
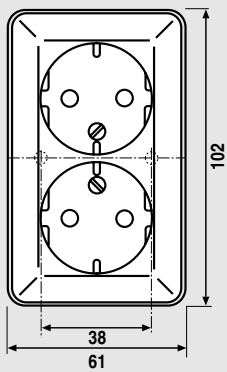
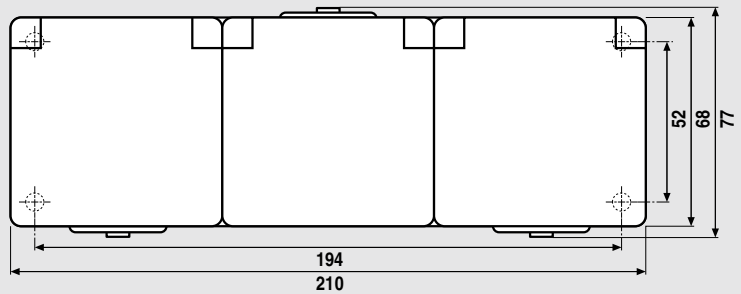
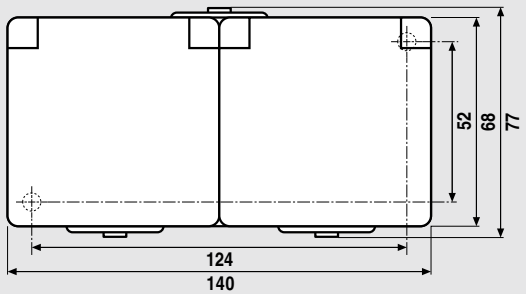
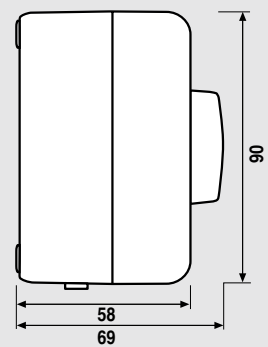
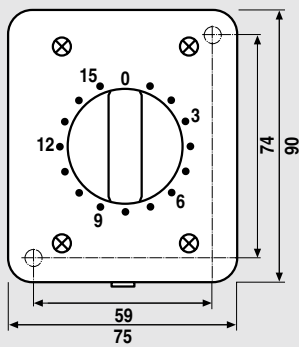
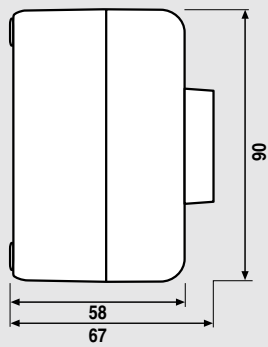
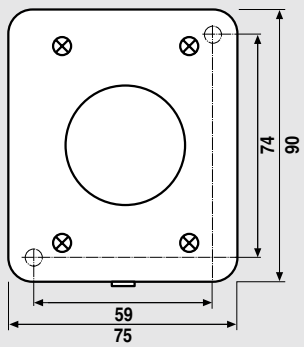
AP 600



Edge radius R 6



WG 600 / WG 800
Special devices



Index

Ref.-no.	Page
102 KOZ W	657
102 KOZ WW	657
104.15	17
104.28	17
1056-04	21
106.15	17
106.28	17
11	386
11 BR	499
11 GR	499
11 SG	103
11 SW	441
11 WW	103
1101-20	15
1101-32	16
1101-4	15
11015	16
11030	16
11030-20	16
11060	16
11120	16
11120-20	16
12	386
12 BR	499
12 GR	499
12 SG	103
12 SW	441
12 WW	103
1208 REG	228
121-15	25
121-15 WW	25
121-20	26
121-20 WW	26
1234.10	16
1234.20	16
13	386
13 BR	499
13 GR	499
13 SG	103
13 SW	441
13 WW	103
132 U	295
132 U WS	294
132 WS	295
133.15	17
133.18	17
134.15	17
134.18	17
134.28	17
138.18	17
140 D	363
15 WW	386
1520 F EINS	25
1520 NF EINS	25
1521 F EINS	25
1521 NF EINS	25
1556-04	21
16 S	18
161 TV	24
165-2	26
165-2 WW	26
1656-21	123
168-1 WW	24
169 T SW	24
169 T WW	24
169-1 NFWE	23
169-1 NFWE WW	23
169-1 NWE WW	22
169-1 UAE WW	23
169-15 NWE	22
169-15 NWE WW	22
169-2 NFWE	23
169-2 NFWE WW	23
169-2 NINF	23

Ref.-no.	Page
169-2 NINF WW	23
169-2 NWE WW	22
169-2 UAE SW	23
169-2 UAE WW	23
1701 SE	222
1702 SE	223
1704 ESE	224
1708 IE	227
1710 DE	218
1711 DE	219
1712 DE	220
1713 DSTE	221
1720 NE	226
1723 NE	226
1724 DEB	275
1724 DM	274
1730 DD	268
1730 JE	216
1731 DD	269
1731 JE	217
1733 DNE	270
1735 DS	271
1740 DSTE	272
1741 DSTE	272
1790 RTR	229
1792 HT BT	246
18 V	633
190-353	649
190-354	649
192	649
193-2	649
193-LED GN	20
195	649
1980 APM	599
20160 REG	693
20320 1S IPS R	693
20320 REG	693
2050 GE WS	701
2050 K	701
2050 RT SW	701
20640 REG	693
2073 U	688
2076-2 T	697
2076-4 T	697
2096 LUX	687
2099 REGHE	695
2103 REG ES	697
211 GDE	270
2116 REG	696
2128 REG	696
21280 REG	693
2131 USBS	693
2131 USBS REG	693
2142 REG	694
2177 SV R	696
2178	690
2178 ORTS	691
2178 TS	691
2194 REGHM	695
2204.01 REGA	696
2204.01 REGAM	696
2214 REG A	697
2214 REGAM	697
2224 WH	697
2225 BFA	697
2225 CAB	697
2225 WS U	697
23001 1S U	696
23002 1S U	696
23006 1S R	694
23016 1S R	694
2302.16 REGHM	694
23024 1S R	695
2304.16 REGCHM	694

Ref.-no.	Page
2304.16 REGHM	694
23066 REGHE	696
2308.16 REGCHM	694
2308.16 REGHM	694
2336 REG HZ HE	696
2336 REG HZR HE	696
240-10	271
240-10 EB	279
2424 REGHE	695
2502 REGHE	695
2504 REGHE	695
2504 REGHER	695
2508 REGHE	695
2514 REGHE	695
28	17
28 G1	17
28 G1 SL	17
306 A-24	657
306 A-24 WW	657
3069-2 AT	38
3069-2 BR	39
3069-2 LEX	39
3069-2 PAND	38
3069-2 SIE	38
3069-25 WE	38
3171 EINS	358
3171 KO EINS	358
3171-5 EINS	359
3190 CU KO EINS	360
321 A	653
321 A WW	653
328	656
328 WW	656
328-622	656
328-622 WW	656
328-626	656
328-676	656
328-676 WW	656
33 AN K	630
33 AN L	630
33 AN N	630
33 AN T	630
33 GN	458
33 K	458
33 K WW	458
33 KLAR	458
33 L	458
33 L WW	458
33 NR	458
33 O	458
33 T	458
33 T WW	458
331 A-24	657
331 A-24 WW	657
333 A-24	657
333 A-24 WW	657
3361 AL	688
3361 M WW	687
3361 WW	688
3361-1 AL	688
3361-1 M WW	687
3361-1 WW	688
34	18
34 KO5	18
34.10	16
3521 EINS	358
3521-5 CN EINS	359
37	378
37 BL	378
37 D	378
37 G	378
37 GE	378
37 R	378
37.02	378

Ref.-no.	Page
37.05	378
37.06	378
37.07	378
37.08	378
39001 1S U	696
39004 1S R	695
3901 REGHE	695
3902 REGHE	695
3904 EB LED	695
3904 REG LED	695
4.28 WU G	633
4008 TSM	286
4071 RF TSM	678
4071 TSM	670
4072 RF TSM	678
4072 TSM	670
4073 RF TSM	678
4073 TSM	670
4074 RF TSM	678
4074 TSM	670
4091 TSEM	670
4092 TSEM	670
4093 KRM TS D	674
4093 TSEM	670
4094 TSEM	287
4171 GI SW EINS	547
4191 TSM	670
4192 TSM	670
4193 TSM	670
4194 TSM	670
4212 TSM	289
4224 TSM	289
4236 TSM	289
4248 TSM	289
501 U	12
501-20 KOU	12
501-20 U	12
502 KOTU	13
502 KOU	12
502 TU	13
502 U	12
502-20 KOU	12
503 KOU	12
503 U	12
505 KO5 VEU M 230	112
505 KO5 VEU M 24	112
505 KOU 5	14
505 KOVU 5	14
505 TU	14
505 U	14
505 U 5	14
505-20U	14
506 KO5 EU D 230	110
506 KO5 EU D 24	110
506 KOTU	13
506 KOU	12
506 TU	13
506 U	12
506 U-LEDW	387
506-20 KOU	12
506-20 U	12
507 TU	13
507 U	12
507-20 U	12
509 TU	14
509 U	14
509 VU	15
509-20 U	14
511 NUZV	471
5121 FBFKI SG PL-1	25
5121 FBFKI SW PL-1	25
5121 FBFKIPL-1	25
5121 FBFKIWWPL-1	25
520-45	467

Ref.-no.	Page
520-O LEDW-2	387
521 IN-EINS	359
521 ZNAUF	467
525	463
528	463
5301 EU	15
5306 EU	15
531 KO5 EU M 230	113
531 KO5 EU M 24	113
531 KO6 EU M 24	116
531 U	13
531-41 U	14
532 U	13
532-4 U	15
533 U	13
533 U-LEDW	387
533-2 U	13
534 KO5 EU D 230	111
534 KO5 EU D 24	111
534 U	13
535 U	15
535 U 5	15
537	488
539 U	15
539 VU	15
5506 ZU	461
5506 ZU WW	461
551 WU	103
561 B	488
561 GL BL	460
561 GL GE	460
561 GL RT	460
561 SAT	482
561 Z5	489
562	482
564	488
564 GE	488
565-2	487
567 S	483
568	482
568-1	482
569 T	74
569 TNA	486
569-1 NAUA	484
569-1 UA	484
569-1 WE	486
569-2 AT	487
569-2 NAUA	485
569-2 UA	485
569-2 WE	487
58 A ZUG	103
581 A	386
582 A	386
583 A	103
590 A	483
590 NAA	483
590 Z	26
590 ZA	489
594-0	488
594-8	484
594-9	484
6.28 WU G	633
60 ANA	651
60 GL	347
60 NA	652
60 NA WW	652
600	649
600 NA	644
601 W	643
6010 A	655
6010 A WW	655
6010 KIA	655
6010 KIA WW	655
602 A	651
602 A WW	651
602 KOA	651
602 KOA WW	651
602 KOW	643
602 W	643

Ref.-no.	Page
6020 A	653
6020 A WW	653
6020 KIA	653
6020 KIA WW	653
6022 A	653
603 W	643
605 A	652
605 A WW	652
605 W	645
606 A	651
606 A WW	651
606 ANA	651
606 ANA WW	651
606 KO5 A	651
606 KO5 A WW	651
606 KOW	643
606 NA	643
606 NAW	643
606 W	643
606 ZA	652
606 ZA WW	652
607 A	651
607 A WW	651
607 W	643
609 VA	652
609 VA WW	652
609 VW	645
61 GL	644
611 A	654
611 A WW	654
620 A	653
620 A WW	653
620 NAW	646
620 W	645
620 WSL	646
620 WX	645
621 NAW	646
621 WSL	646
621 WX	645
622 NAW	648
622 NAWW	648
622 W	648
622 WW	648
623 NAW	648
623 W	648
626 A	654
626 A WW	654
63 WBT	46
631 A	651
631 A WW	651
631 NAW	644
631 W	643
633 A	651
633 A WW	651
633 W	643
633-2 W	644
634 A	651
634 A WW	651
634 W	643
637-10 A	655
637-10 A WW	655
637-10 W	649
637-14 A	655
637-14 A WW	655
637-14 W	649
639 VA	653
639 VA WW	653
639 VW	645
639 W	645
645 A	655
645 A WW	655
646 A	655
646 A WW	655
65 WIS	26
661 WGL BL	644
661 WGL GE	644
661 WGL R	644
671 W	647
675 A	654

Ref.-no.	Page
675 A WW	654
675 W	647
676 A	654
676 A WW	654
676 KOW	647
676 NAW	648
676 W	647
80 KLEFO	203
800 AW	640
800 KO	686
800 NA	632
800 NT	686
800 P	686
8012 W	641
8015 W	641
802 KOW	629
802 SL	27
802 SL - 825 SL	356
802 W	629
803 KOW	629
803 W	629
804.18 W	632
804.28 G	633
805 MP	686
805 NA	632
805 NAW	631
805 NT	686
805 P	686
805 W	631
806 KOW	629
806 NAW	629
806 W	629
806 ZW	631
806.18 W	632
806.28 G	633
807 W	629
809 NAW	631
809 VW	632
809 W	631
820 GN NAW	634
820 GN NAWEB	634
820 GN NAWSL	634
820 GN NAWSL	634
820 KINAW	634
820 KIW	633
820 NAW	634
820 NAWSL	634
820 O NAW	634
820 W	633
821 FKI W	638
821-15 USW	639
821-20 USW	639
822 KINAW	636
822 NAW	636
822 NAWSL	637
822 W	636
8220 GN NAWEB	637
8220 GN NAWSL	637
8220 KINAW	636
8220 NAW	636
8220 NAWSL	637
8220 W	636
8220-1 W	636
8221 FKI W	638
823 NVDW	641
8230 NAW	638
8230 W	638
8231 FKI W	639
831 NAW	630
831 W	629
833 W	629
833 ZW	631
833-2 W	630
833.18 G	633
833.18 W	632
834 W	629
834.10 W	632
834.18 W	632
834.20 W	632
834.28 G	633

Ref.-no.	Page
835 NAW	631
835 W	631
837-10 W	639
837-14 W	639
839 NAW	631
839 VW	632
839 W	631
8471.01 LED W	686
8471.02 LED W	686
8472.01 LED W	686
8472.02 LED W	686
860 WGL BL	630
860 WGL GE	630
860 WGL RT	630
871 W	635
875 W	635
876 KOW	635
876 NAW	636
876 W	634
890	640
891	640
892	640
893-1	640
893-2	640
894	640
895	640
90	19
90-LED BL	20
90-LED GN	20
90-LED RT	20
90-LED W	20
9062-02	123
9063-02	21
9063-78	21
9064-02	21
9064-78	21
93	20
93-LED GN	20
93-LED RT	20
938-10 U	18
938-14 U	18
94	19
94 GN	19
94 RT	19
94-LED BL	19
94-LED GN	19
94-LED RT	19
94-LED W	19
941224 LED W	19
95	19
96-12	19
96-24	19
96-36	19
96-48	19
961248 LED BL	20
961248 LED GN	20
961248 LED RT	20
961248 LED W	20
98	19
98-220	19
99	19
A 101 AL	681
A 101 BF ANM	681
A 101 BF SW	681
A 101 BF SWM	681
A 101 BF WW	681
A 101 BF WWM	681
A 101 CH	681
A 101 KO5 AL	682
A 101 KO5 BF ANM	682
A 101 KO5 BF SW	682
A 101 KO5 BF SWM	682
A 101 KO5 BF WW	682
A 101 KO5 BF WWM	682
A 101 KO5 CH	682
A 101 KO5 MO	682
A 101 KO5 SW	682
A 101 KO5 WW	682
A 101 KO5P AL	682

Ref.-no.	Page
A 101 KO5P BF ANM	682
A 101 KO5P BF SW	682
A 101 KO5P BF SWM	682
A 101 KO5P BF WW	682
A 101 KO5P BF WWM	682
A 101 KO5P CH	682
A 101 KO5P MO	682
A 101 KO5P SW	682
A 101 KO5P WW	682
A 101 MO	681
A 101 P AL	681
A 101 P BF ANM	681
A 101 P BF SW	681
A 101 P BF SWM	681
A 101 P BF WW	681
A 101 P BF WWM	681
A 101 P CH	681
A 101 P MO	681
A 101 P SW	681
A 101 P WW	681
A 101 SW	681
A 101 WW	681
A 102 AL	682
A 102 BF ANM	682
A 102 BF SW	682
A 102 BF SWM	682
A 102 BF WW	682
A 102 BF WWM	682
A 102 CH	682
A 102 KO5 AL	682
A 102 KO5 BF ANM	682
A 102 KO5 BF SW	682
A 102 KO5 BF SWM	682
A 102 KO5 BF WW	682
A 102 KO5 BF WWM	682
A 102 KO5 CH	682
A 102 KO5 MO	682
A 102 KO5 SW	682
A 102 KO5 WW	682
A 102 KO5P AL	682
A 102 KO5P BF ANM	682
A 102 KO5P BF SW	682
A 102 KO5P BF SWM	682
A 102 KO5P BF WW	682
A 102 KO5P BF WWM	682
A 102 KO5P CH	682
A 102 KO5P MO	682
A 102 KO5P SW	682
A 102 KO5P WW	682
A 102 MO	682
A 102 P AL	682
A 102 P BF ANM	682
A 102 P BF SW	682
A 102 P BF SWM	682
A 102 P BF WW	682
A 102 P BF WWM	682
A 102 P CH	682
A 102 P MO	682
A 102 P SW	682
A 102 P WW	682
A 102 SW	682
A 102 WW	682
A 10711 ST	680
A 10721 ST	681
A 10911 ST	680
A 10911 TE	680
A 10921 ST	681
A 10921 TE	681
A 110	313
A 1520	349
A 1520 AL	400
A 1520 BF	349
A 1520 BF ANM	400
A 1520 BF BL	349
A 1520 BF GN	349
A 1520 BF O	349
A 1520 BF RT	349
A 1520 BF SW	400
A 1520 BF SWM	400

Ref.-no.	Page
A 1520 BF WW	349
A 1520 BF WWM	400
A 1520 BFKI	349
A 1520 BFKI ANM	400
A 1520 BFKI BL	349
A 1520 BFKI GN	349
A 1520 BFKI O	349
A 1520 BFKI RT	349
A 1520 BFKI SW	400
A 1520 BFKI SWM	400
A 1520 BFKI WW	349
A 1520 BFKI WWM	400
A 1520 BFKIKL AL	408
A 1520 BFKIKL ANM	408
A 1520 BFKIKL CH	408
A 1520 BFKIKL MO	408
A 1520 BFKIKL SW	408
A 1520 BFKIKL SWM	408
A 1520 BFKIKL WW	408
A 1520 BFKIKL WWM	408
A 1520 BFKINA AL	402
A 1520 BFKINA ANM	402
A 1520 BFKINA GN	350
A 1520 BFKINA O	350
A 1520 BFKINA RT	402
A 1520 BFKINA SWM	402
A 1520 BFKINA WW	350
A 1520 BFKINA WWM	402
A 1520 BFKL AL	408
A 1520 BFKL ANM	408
A 1520 BFKL CH	408
A 1520 BFKL MO	408
A 1520 BFKL SW	408
A 1520 BFKL SWM	408
A 1520 BFKL WW	408
A 1520 BFKL WWM	408
A 1520 BFKLKO GN	409
A 1520 BFKLKO RT	409
A 1520 BFKLKO WW	409
A 1520 BFKLSL AL	410
A 1520 BFKLSL ANM	410
A 1520 BFKLSL CH	410
A 1520 BFKLSL GN	410
A 1520 BFKLSL MO	410
A 1520 BFKLSL O	410
A 1520 BFKLSL SW	410
A 1520 BFKLSL WW	410
A 1520 BFKO	351
A 1520 BFKO GN	351
A 1520 BFKO O	351
A 1520 BFKO RT	351
A 1520 BFKO WW	351
A 1520 BFNA AL	402
A 1520 BFNA ANM	402
A 1520 BFNA GN	350
A 1520 BFNA O	350
A 1520 BFNA RT	350
A 1520 BFNA SW	402
A 1520 BFNA SWM	402
A 1520 BFNA WW	350
A 1520 BFNA WWM	402
A 1520 BFNAKO GN	351
A 1520 BFNAKO O	351
A 1520 BFNAKO RT	351
A 1520 BFNAKO WW	351
A 1520 CH	400
A 1520 F-15 CA	65
A 1520 F-15 CA AL	65
A 1520 F-15 CA CH	65
A 1520 F-15 CA MO	65
A 1520 F-15 CA SW	65
A 1520 F-15 CA WW	65
A 1520 F-18 A	63
A 1520 F-18 A AL	63
A 1520 F-18 A CH	63
A 1520 F-18 A MO	63
A 1520 F-18 A SW	63
A 1520 F-18 A WW	63

Ref.-no.	Page
A 1520 F-18 A WWM	63
A 1520 F-18 C	64
A 1520 F-18 C AL	64
A 1520 F-18 C CH	64
A 1520 F-18 C MO	64
A 1520 F-18 C SW	64
A 1520 F-18 C WW	64
A 1520 KI	349
A 1520 KI AL	400
A 1520 KI CH	400
A 1520 KI MO	400
A 1520 KI SW	400
A 1520 KI WW	349
A 1520 KIKL SW	408
A 1520 KIKL WW	408
A 1520 KL SW	408
A 1520 KL WW	408
A 1520 MO	400
A 1520 SW	400
A 1520 WW	349
A 1520-13 BF SEV	357
A 1520-13 BF SEV AL	410
A 1520-13 BF SEV CH	410
A 1520-13 BF SEV MO	410
A 1520-13 BF SEV SW	410
A 1520-13 BF SEV WW	357
A 1520-13 SEV SWM	410
A 1520-13 SEV WWM	410
A 1520-15 CA	62
A 1520-15 CA AL	62
A 1520-15 CA ANM	62
A 1520-15 CA CH	62
A 1520-15 CA MO	62
A 1520-15 CA SW	62
A 1520-15 CA SWM	62
A 1520-15 CA WW	62
A 1520-15 CA WWM	62
A 1520-18 A	60
A 1520-18 A AL	60
A 1520-18 A ANM	60
A 1520-18 A CH	60
A 1520-18 A MO	60
A 1520-18 A SW	60
A 1520-18 A SWM	60
A 1520-18 A WW	60
A 1520-18 A WWM	60
A 1520-18 C	61
A 1520-18 C AL	61
A 1520-18 C ANM	61
A 1520-18 C CH	61
A 1520-18 C MO	61
A 1520-18 C SW	61
A 1520-18 C SWM	61
A 1520-18 C WW	61
A 1520-18 C WWM	61
A 1520-O AL LNW	131
A 1520-O ANM LNW	131
A 1520-O CH LNW	131
A 1520-O LNW	131
A 1520-O MO LNW	131
A 1520-O SW LNW	131
A 1520-O SWM LNW	131
A 1520-O WW LNW	131
A 1520-O WWM LNW	131
A 1520F-15 CA ANM	65
A 1520F-15 CA SWM	65
A 1520F-15 CA WWM	65
A 1520F-18 A ANM	63
A 1520F-18 A SWM	63
A 1520F-18 A WWM	63
A 1520F-18 C ANM	64
A 1520F-18 C SWM	64
A 1520F-18 C WWM	64
A 1521	350
A 1521 AL	401
A 1521 BF	350
A 1521 BF ANM	401
A 1521 BF GN	350
A 1521 BF O	350

Ref.-no.	Page
A 1521 BF SW	401
A 1521 BF SWM	401
A 1521 BF WW	350
A 1521 BF WWM	401
A 1521 BFKI ANM	401
A 1521 BFKI GN	401
A 1521 BFKI O	401
A 1521 BFKI SW	401
A 1521 BFKI SWM	401
A 1521 BFKI WW	401
A 1521 BFKI WWM	401
A 1521 BFKIKL ANM	409
A 1521 BFKIKL SW	409
A 1521 BFKIKL SWM	409
A 1521 BFKIKL WW	409
A 1521 BFKIKL WWM	409
A 1521 BFKL AL	409
A 1521 BFKL ANM	409
A 1521 BFKL CH	409
A 1521 BFKL MO	409
A 1521 BFKL SW	409
A 1521 BFKL WW	409
A 1521 CH	401
A 1521 F AL PL-1	411
A 1521 F CH PL-1	411
A 1521 F MO PL-1	411
A 1521 F PL-1	357
A 1521 F SW PL-1	411
A 1521 F WW PL-1	357
A 1521 FBF ANM P1	411
A 1521 FKI AL PL-1	411
A 1521 FKI CH PL-1	411
A 1521 FKI MO PL-1	411
A 1521 FKI PL-1	357
A 1521 FKI SW PL-1	411
A 1521 FKI SWM PL-1	411
A 1521 FKI WW PL-1	357
A 1521 FKI WWM PL-1	411
A 1521 FKIKL PL-1	357
A 1521 FKIKL WW PL1	357
A 1521 KI AL	401
A 1521 KI CH	401
A 1521 KI MO	401
A 1521 KI SW	401
A 1521 KI WW	401
A 1521 KIKL AL	409
A 1521 KIKL CH	409
A 1521 KIKL MO	409
A 1521 KIKL SW	409
A 1521 KIKL WW	409
A 1521 KL SW	409
A 1521 KL WW	409
A 1521 MO	401
A 1521 SW	401
A 1521 WW	350
A 1539-O AL LNW	131
A 1539-O ANM LNW	131
A 1539-O CH LNW	131
A 1539-O LNW	131
A 1539-O MO LNW	131
A 1539-O SW LNW	131
A 1539-O SWM LNW	131
A 1539-O WW LNW	131
A 1539-O WWM LNW	131
A 1539-OO AL LNW	132
A 1539-OO ANM LNW	132
A 1539-OO CH LNW	132
A 1539-OO LNW	132
A 1539-OO MO LNW	132
A 1539-OO SW LNW	132
A 1539-OO SWM LNW	132
A 1539-OO WW LNW	132
A 1539-OO WWM LNW	132
A 1540	363
A 1540 AL	416
A 1540 BF ANM	416
A 1540 BF KO5 ANM	686
A 1540 BF KO5 SW	686
A 1540 BF KO5 SWM	686

Ref.-no.	Page
A 1540 BF KO5 WW	686
A 1540 BF KO5 WWM	686
A 1540 BF SW	416
A 1540 BF SWM	416
A 1540 BF WW	416
A 1540 BF WWM	416
A 1540 CH	416
A 1540 KO5	686
A 1540 KO5 AL	686
A 1540 KO5 CH	686
A 1540 KO5 MO	686
A 1540 KO5 SW	686
A 1540 KO5 WW	686
A 1540 MO	416
A 1540 SW	416
A 1540 WW	363
A 1541	349
A 1541 AL	399
A 1541 BF ANM	399
A 1541 BF SW	399
A 1541 BF SWM	399
A 1541 BF WW	399
A 1541 BF WWM	399
A 1541 CH	399
A 1541 MO	399
A 1541 SW	399
A 1541 WW	349
A 1569 USB	73
A 1569 USB AL	73
A 1569 USB ANM	73
A 1569 USB CH	73
A 1569 USB MO	73
A 1569 USB SW	73
A 1569 USB SWM	73
A 1569 USB WW	73
A 1569 USB WWM	73
A 1569-1 BR	377
A 1569-1 BR WW	377
A 1569-1 WE	373
A 1569-1 WE AL	433
A 1569-1 WE ANM	433
A 1569-1 WE CH	433
A 1569-1 WE MO	433
A 1569-1 WE SW	433
A 1569-1 WE SWM	433
A 1569-1 WE WW	373
A 1569-1 WE WWM	433
A 1569-15 WE	374
A 1569-15 WE AL	434
A 1569-15 WE ANM	434
A 1569-15 WE CH	434
A 1569-15 WE MO	434
A 1569-15 WE SW	434
A 1569-15 WE SWM	434
A 1569-15 WE WW	374
A 1569-15 WE WWM	434
A 1569-2 AT	374
A 1569-2 AT WW	374
A 1569-2 BR	377
A 1569-2 BR WW	377
A 1569-2 PAND	375
A 1569-2 PAND WW	375
A 1569-2 SIE	376
A 1569-2 SIE WW	376
A 1569-2 WE	373
A 1569-2 WE AL	433
A 1569-2 WE ANM	433
A 1569-2 WE CH	433
A 1569-2 WE MO	433
A 1569-2 WE SW	433
A 1569-2 WE SWM	433
A 1569-2 WE WW	373
A 1569-2 WE WWM	433
A 1569-25 WE	374
A 1569-25 WE AL	434
A 1569-25 WE ANM	434
A 1569-25 WE CH	434
A 1569-25 WE MO	434
A 1569-25 WE SW	434

Ref.-no.	Page
A 1569-25 WE SWM	434
A 1569-25 WE WW	374
A 1569-25 WE WWM	434
A 1700 AL	230
A 1700 BF ANM	230
A 1700 BF SW	230
A 1700 BF SWM	230
A 1700 BF WW	230
A 1700 BF WWM	230
A 1700 BFP ANM	232
A 1700 BFP SW	232
A 1700 BFP SWM	232
A 1700 BFP WW	232
A 1700 BFP WWM	232
A 1700 CH	230
A 1700 MO	230
A 1700 P AL	232
A 1700 P CH	232
A 1700 P MO	232
A 1700 P SW	232
A 1700 P WW	232
A 1700 SW	230
A 1700 WW	230
A 1701 AL	234
A 1701 BF ANM	234
A 1701 BF SW	234
A 1701 BF SWM	234
A 1701 BF WW	234
A 1701 BF WWM	234
A 1701 BFP ANM	236
A 1701 BFP SW	236
A 1701 BFP SWM	236
A 1701 BFP WW	236
A 1701 BFP WWM	236
A 1701 CH	234
A 1701 MO	234
A 1701 P AL	236
A 1701 P CH	236
A 1701 P MO	236
A 1701 P SW	236
A 1701 P WW	236
A 1701 SW	234
A 1701 WW	234
A 1702 AL	238
A 1702 BF ANM	238
A 1702 BF SW	238
A 1702 BF SWM	238
A 1702 BF WW	238
A 1702 BF WWM	238
A 1702 CH	238
A 1702 MO	238
A 1702 SW	238
A 1702 WW	238
A 17180	249
A 17180 AL	249
A 17180 ANM	249
A 17180 CH	249
A 17180 MO	249
A 17180 SW	249
A 17180 SWM	249
A 17180 WU	251
A 17180 WU AL	251
A 17180 WU ANM	251
A 17180 WU CH	251
A 17180 WU MO	251
A 17180 WU SW	251
A 17180 WU SWM	251
A 17180 WU WW	251
A 17180 WU WWM	251
A 17180 WW	249
A 17180 WWM	249
A 17181	255
A 17181 AL	255
A 17181 ANM	255
A 17181 CH	255
A 17181 MO	255
A 17181 SW	255
A 17181 SWM	255
A 17181 WU	257

Ref.-no.	Page
A 17181 WU AL	257
A 17181 WU ANM	257
A 17181 WU CH	257
A 17181 WU MO	257
A 17181 WU SW	257
A 17181 WU SWM	257
A 17181 WU WW	257
A 17181 WU WWM	257
A 17181 WW	255
A 17181 WWM	255
A 17280	253
A 17280 AL	253
A 17280 ANM	253
A 17280 CH	253
A 17280 MO	253
A 17280 SW	253
A 17280 SWM	253
A 17280 WW	253
A 17280 WWM	253
A 17281	259
A 17281 AL	259
A 17281 ANM	259
A 17281 CH	259
A 17281 MO	259
A 17281 SW	259
A 17281 SWM	259
A 17281 WW	259
A 17281 WWM	259
A 1750 D SW	240
A 1750 D WW	240
A 1751 BFBT ANM	243
A 1751 BFBT SW	243
A 1751 BFBT SWM	243
A 1751 BFBT WW	243
A 1751 BFBT WWM	243
A 1751 BFPBT ANM	245
A 1751 BFPBT SW	245
A 1751 BFPBT SWM	245
A 1751 BFPBT WW	245
A 1751 BFPBT WWM	245
A 1751 BT AL	243
A 1751 BT CH	243
A 1751 BT MO	243
A 1751 BT SW	243
A 1751 BT WW	243
A 1751 PBT AL	245
A 1751 PBT CH	245
A 1751 PBT MO	245
A 1751 PBT SW	245
A 1751 PBT WW	245
A 1790 D SW	264
A 1790 D WW	264
A 20 NA	350
A 2172 AL PL	327
A 2172 ANM PL	327
A 2172 KO AL PL	328
A 2172 KO ANM PL	328
A 2172 KO SW PL	328
A 2172 KO SWM PL	328
A 2172 KO WW PL	328
A 2172 KO WWM PL	328
A 2172 SW PL	327
A 2172 SWM PL	327
A 2172 WW PL	327
A 2172 WWM PL	327
A 2178	690
A 2178 AL	690
A 2178 ANM	690
A 2178 BF ORTS ANM	691
A 2178 BF ORTS SW	691
A 2178 BF ORTS SWM	691
A 2178 BF ORTS WW	691
A 2178 BF ORTS WWM	691
A 2178 CH	690
A 2178 MO	690
A 2178 ORTS	691
A 2178 ORTS AL	691
A 2178 ORTS CH	691
A 2178 ORTS MO	691

Ref.-no.	Page
A 2178 ORTS SW	691
A 2178 ORTS WW	691
A 2178 SW	690
A 2178 SWM	690
A 2178 TS	691
A 2178 TS AL	691
A 2178 TS ANM	691
A 2178 TS CH	691
A 2178 TS MO	691
A 2178 TS SW	691
A 2178 TS SWM	691
A 2178 TS WW	691
A 2178 TS WWM	691
A 2178 WW	690
A 2178 WWM	690
A 3171 AL PL	324
A 3171 BF ANM PL	324
A 3171 BF SW PL	324
A 3171 BF SWM PL	324
A 3171 BF WW PL	324
A 3171 BF WWM PL	324
A 3171 BFKO ANM PL	324
A 3171 BFKO SW PL	324
A 3171 BFKO SWM PL	324
A 3171 BFKO WW PL	324
A 3171 BFKO WWM PL	324
A 3171 CH PL	324
A 3171 KO AL PL	324
A 3171 KO CH PL	324
A 3171 KO MO PL	324
A 3171 KO PL	324
A 3171 KO SW PL	324
A 3171 KO WW PL	324
A 3171 MO PL	324
A 3171 PL	324
A 3171 SW PL	324
A 3171 WW PL	324
A 3171-5 AL PL	333
A 3171-5 BF ANM PL	333
A 3171-5 BF WW PL	333
A 3171-5 CH PL	333
A 3171-5 MO PL	333
A 3171-5 PL	333
A 3171-5 SW PL	333
A 3171-5 SWM PL	333
A 3171-5 WW PL	333
A 3171-5 WWM PL	333
A 3181	688
A 3181 AL	688
A 3181 ANM	688
A 3181 CH	688
A 3181 MO	688
A 3181 SW	688
A 3181 SWM	688
A 3181 WW	688
A 3181 WWM	688
A 3181-1	689
A 3181-1 AL	689
A 3181-1 ANM	689
A 3181-1 CH	689
A 3181-1 MO	689
A 3181-1 SW	689
A 3181-1 SWM	689
A 3181-1 WW	689
A 3181-1 WWM	689
A 3190 CU KO AL PL	334
A 3190 CU KO CH PL	334
A 3190 CU KO MO PL	334
A 3190 CU KO PL	334
A 3190 CU KO SW PL	334
A 3190 CU KO WW PL	334
A 3281	689
A 3281 AL	689
A 3281 ANM	689
A 3281 CH	689
A 3281 MO	689
A 3281 SW	689
A 3281 SWM	689
A 3281 WW	689

Ref.-no.	Page
A 3281 WWM	689
A 3281-1	690
A 3281-1 AL	690
A 3281-1 ANM	690
A 3281-1 CH	690
A 3281-1 MO	690
A 3281-1 SW	690
A 3281-1 SWM	690
A 3281-1 WW	690
A 3281-1 WWM	690
A 3521 AL PL	326
A 3521 CH PL	326
A 3521 MO PL	326
A 3521 PL	326
A 3521 SW PL	326
A 3521 SWM	412
A 3521 WW PL	326
A 3521 WWM	412
A 3521-5 CN AL PL	414
A 3521-5 CN CH PL	414
A 3521-5 CN MO PL	414
A 3521-5 CN WW PL	359
A 3521-5 CNBF ANM PL	414
A 3521-5 CNBF WW PL	359
A 3521-5 CNPL	359
A 401 TSA	671
A 401 TSA AL	671
A 401 TSA ANM	671
A 401 TSA CH	671
A 401 TSA MO	671
A 401 TSA SW	671
A 401 TSA SWM	671
A 401 TSA WW	671
A 401 TSA WWM	671
A 401 TSAP	671
A 401 TSAP AL	671
A 401 TSAP ANM	671
A 401 TSAP CH	671
A 401 TSAP MO	671
A 401 TSAP SW	671
A 401 TSAP SWM	671
A 401 TSAP WW	671
A 401 TSAP WWM	671
A 402 TSA	671
A 402 TSA AL	671
A 402 TSA ANM	671
A 402 TSA CH	671
A 402 TSA MO	671
A 402 TSA SW	671
A 402 TSA SWM	671
A 402 TSA WW	671
A 402 TSA WWM	671
A 402 TSAP	671
A 402 TSAP AL	671
A 402 TSAP ANM	671
A 402 TSAP CH	671
A 402 TSAP MO	671
A 402 TSAP SW	671
A 402 TSAP SWM	671
A 402 TSAP WW	671
A 402 TSAP WWM	671
A 403 TSA	671
A 403 TSA AL	671
A 403 TSA ANM	671
A 403 TSA CH	671
A 403 TSA MO	671
A 403 TSA SW	671
A 403 TSA SWM	671
A 403 TSA WW	671
A 403 TSA WWM	671
A 404 TSA	671
A 404 TSA AL	671
A 404 TSA ANM	671
A 404 TSA CH	671
A 404 TSA MO	671
A 404 TSA SW	671
A 404 TSA SWM	671
A 404 TSA WW	671
A 404 TSA WWM	671

Ref.-no.	Page
A 404 TSAP 14	671
A 404 TSAP 23	671
A 404 TSAP AL 14	671
A 404 TSAP AL 23	671
A 404 TSAP ANM 14	671
A 404 TSAP ANM 23	671
A 404 TSAP CH 14	671
A 404 TSAP CH 23	671
A 404 TSAP MO 14	671
A 404 TSAP MO 23	671
A 404 TSAP SW 14	671
A 404 TSAP SW 23	671
A 404 TSAP SWM 14	671
A 404 TSAP SWM 23	671
A 404 TSAP WW 14	671
A 404 TSAP WW 23	671
A 404 TSAP WWM 14	671
A 404 TSAP WWM 23	671
A 409 T	675
A 4093 TSA	675
A 4093 TSA AL	675
A 4093 TSA ANM	675
A 4093 TSA CH	675
A 4093 TSA MO	675
A 4093 TSA SW	675
A 4093 TSA SWM	675
A 4093 TSA WW	675
A 4093 TSA WWM	675
A 50 NA	662
A 50 NA AL	662
A 50 NA ANM	662
A 50 NA CH	662
A 50 NA MO	662
A 50 NA SW	662
A 50 NA SWM	662
A 50 NA TX SW-L	662
A 50 NA W	662
A 50 NA WW	662
A 50 NA WWM	662
A 501 TSA	662
A 501 TSA AL	662
A 501 TSA ANM	662
A 501 TSA CH	662
A 501 TSA MO	662
A 501 TSA SW	662
A 501 TSA SWM	662
A 501 TSA WW	662
A 501 TSA WWM	662
A 502 TSA	662
A 502 TSA AL	662
A 502 TSA ANM	662
A 502 TSA CH	662
A 502 TSA MO	662
A 502 TSA SW	662
A 502 TSA SWM	662
A 502 TSA WW	662
A 502 TSA WWM	662
A 503 TSA	662
A 503 TSA AL	662
A 503 TSA ANM	662
A 503 TSA CH	662
A 503 TSA MO	662
A 503 TSA SW	662
A 503 TSA SWM	662
A 503 TSA WW	662
A 503 TSA WWM	662
A 504 TSA	662
A 504 TSA AL	662
A 504 TSA ANM	662
A 504 TSA CH	662
A 504 TSA MO	662
A 504 TSA SW	662
A 504 TSA SWM	662
A 504 TSA WW	662
A 504 TSA WWM	662
A 506 BF NUZ	347
A 506 BF NUZ AL	397
A 506 BF NUZ ANM	397
A 506 BF NUZ CH	348

Ref.-no.	Page
A 506 BF NUZ MO	397
A 506 BF NUZ SW	397
A 506 BF NUZ SWM	397
A 506 BF NUZ WW	347
A 506 BF NUZ WWM	397
A 5071 RF TSM	677
A 5071 TSM	660
A 5072 RF TSM	677
A 5072 TSM	660
A 5073 RF TSM	677
A 5073 TSM	660
A 5074 RF TSM	677
A 5074 TSM	660
A 5091 TSEM	661
A 5091 TSM	660
A 5092 TSEM	661
A 5092 TSM	660
A 5093 TSEM	661
A 5093 TSM	660
A 5094 TSEM	661
A 5094 TSM	660
A 511 N	356
A 511 N AL	410
A 511 N CH	410
A 511 N MO	410
A 511 N SW	410
A 511 N SWM	410
A 511 N WW	356
A 511 N WWM	410
A 511 NKI	357
A 511 NKI WW	357
A 5178 TSEM	661
A 5178 TSM	661
A 5192 KRM TS D	661
A 5194 KRM TS D	661
A 520-45 KI	350
A 520-45 KI AL	402
A 520-45 KI SW	402
A 520-45 KI WW	350
A 5201 HYG	319
A 5201 HYG AL	319
A 5201 HYG ANM	319
A 5201 HYG CH	319
A 5201 HYG MO	319
A 5201 HYG SW	319
A 5201 HYG WW	319
A 521 IN AL PL	415
A 521 IN BF ANM PL	415
A 521 IN BF WW PL	415
A 521 IN CH PL	415
A 521 IN MO PL	415
A 521 IN PL	359
A 521 IN SW PL	415
A 521 IN WW PL	359
A 521 UF	353
A 521 UF WW	353
A 521-15	358
A 521-15 AL	412
A 521-15 SW	412
A 521-15 SWM	412
A 521-15 WW	358
A 521-15 WWM	412
A 521-20	358
A 521-20 AL	412
A 521-20 SW	412
A 521-20 SWM	412
A 521-20 WW	358
A 521-20 WWM	412
A 5212 TSM	288
A 5224 TSM	288
A 5236 TSM	288
A 5248 TSM	288
A 525 PL	348
A 525 PL AL	399
A 525 PL CH	399
A 525 PL MO	399
A 525 PL SW	399
A 525 PL WW	348
A 528 PL	348

Ref.-no.	Page
A 528 PL AL	399
A 528 PL ANM	399
A 528 PL CH	399
A 528 PL MO	399
A 528 PL SW	399
A 528 PL SWM	399
A 528 PL WW	348
A 528 PL WWM	399
A 537 BFPL	378
A 537 BFPL AL	438
A 537 BFPL ANM	438
A 537 BFPL CH	438
A 537 BFPL MO	438
A 537 BFPL SW	438
A 537 BFPL WW	378
A 5520.30	353
A 5520.30 AL	406
A 5520.30 SW	406
A 5520.30 WW	353
A 5530 FIB	353
A 5530 FIB AL	406
A 5530 FIB SW	406
A 5530 FIB WW	353
A 5581 BF AL	336
A 5581 BF ANM	336
A 5581 BF SW	336
A 5581 BF SWM	336
A 5581 BF WW	336
A 5581 BF WWM	336
A 5582 BF AL	443
A 5582 BF ANM	443
A 5582 BF SW	443
A 5582 BF SWM	443
A 5582 BF WW	443
A 5582 BF WWM	443
A 5582-0 BF AL	336
A 5582-0 BF ANM	336
A 5582-0 BF SW	336
A 5582-0 BF SWM	336
A 5582-0 BF WW	336
A 5582-0 BF WWM	336
A 5583 BF AL	443
A 5583 BF ANM	443
A 5583 BF SW	443
A 5583 BF SWM	443
A 5583 BF WW	443
A 5583 BF WWM	443
A 5584 BF AL	443
A 5584 BF ANM	443
A 5584 BF SW	443
A 5584 BF SWM	443
A 5584 BF WW	443
A 5584 BF WWM	443
A 5585 BF AL	443
A 5585 BF ANM	443
A 5585 BF SW	443
A 5585 BF SWM	443
A 5585 BF WW	443
A 5585 BF WWM	443
A 561 B	377
A 561 B WW	377
A 561 BFPLSAT	370
A 561 BFPLSAT ANM	428
A 561 BFPLSAT SW	428
A 561 BFPLSAT SWM	428
A 561 BFPLSAT WW	370
A 561 BFPLSAT WWM	428
A 561 BFPLTV	370
A 561 BFPLTV ANM	427
A 561 BFPLTV SW	427
A 561 BFPLTV SWM	427
A 561 BFPLTV WW	370
A 561 BFPLTV WWM	427
A 561 PLSAT	370
A 561 PLSAT AL	428
A 561 PLSAT CH	428
A 561 PLSAT MO	428
A 561 PLSAT SW	428
A 561 PLSAT WW	370

Ref.-no.	Page
A 561 PLTV	370
A 561 PLTV AL	427
A 561 PLTV CH	427
A 561 PLTV MO	427
A 561 PLTV SW	427
A 561 PLTV WW	370
A 562	370
A 562 AL	426
A 562 CH	426
A 562 MO	426
A 562 SW	426
A 562 WW	370
A 562-1 BF ANM	426
A 562-1 BF SW	426
A 562-1 BF WW	426
A 562-2 AL	427
A 562-2 BF ANM	427
A 562-2 BF SW	427
A 562-2 BF WW	427
A 562-2 CH	427
A 562-2 MO	427
A 564	378
A 564 AL	438
A 564 GE	378
A 564 SW	438
A 564 WW	378
A 565-2	377
A 565-2 AL	437
A 565-2 BF ANM	437
A 565-2 BF SW	437
A 565-2 BF WW	437
A 565-2 SW	437
A 565-2 WW	377
A 567 S	371
A 567 S AL	428
A 567 S ANM	428
A 567 S CH	428
A 567 S MO	428
A 567 S SW	428
A 567 S WW	371
A 567-G3	118
A 567-G3 AL	118
A 567-G3 ANM	118
A 567-G3 CH	118
A 567-G3 MO	118
A 567-G3 SW	118
A 567-G3 SWM	118
A 567-G3 WW	118
A 567-G3 WWM	118
A 568 BF	370
A 568 BF ANM	427
A 568 BF SW	427
A 568 BF WW	370
A 568-1 BF	370
A 568-1 BF ANM	427
A 568-1 BF SW	427
A 568-1 BF WW	370
A 569 BFPLT	372
A 569 BFPLT ANM	431
A 569 BFPLT SW	431
A 569 BFPLT SWM	431
A 569 BFPLT WW	372
A 569 BFPLT WWM	431
A 569 PLT	372
A 569 PLT AL	431
A 569 PLT CH	431
A 569 PLT MO	431
A 569 PLT SW	431
A 569 PLT WW	372
A 569-1 BFPLUA	372
A 569-1 BFPLUA ANM	430
A 569-1 BFPLUA SW	430
A 569-1 BFPLUA SWM	430
A 569-1 BFPLUA WW	372
A 569-1 BFPLUA WWM	430
A 569-1 PLUA	372
A 569-1 PLUA AL	430
A 569-1 PLUA CH	430
A 569-1 PLUA MO	430

Ref.-no.	Page
A 569-1 PLUA SW	430
A 569-1 PLUA WW	372
A 569-2 BFPLUA	372
A 569-2 BFPLUA AL	430
A 569-2 BFPLUA ANM	430
A 569-2 BFPLUA CH	430
A 569-2 BFPLUA MO	430
A 569-2 BFPLUA SW	430
A 569-2 BFPLUA SWM	430
A 569-2 BFPLUA WW	372
A 569-2 BFPLUA WWM	430
A 569-2 NITT	375
A 569-2 NITT CH	436
A 569-2 NITT MO	436
A 569-2 NITT WW	375
A 569-2 NLEX	375
A 569-2 NLEX AL	437
A 569-2 NLEX CH	437
A 569-2 NLEX MO	437
A 569-2 NLEX SW	437
A 569-2 NLEX WW	375
A 569-21 ACS	374
A 569-21 ACS AL	436
A 569-21 ACS SW	436
A 569-21 ACS WW	374
A 569-21 BFACS ANM	436
A 569-21 BFACS SW	436
A 569-21 BFACS WW	436
A 569-30 BF PL	39
A 569-30 BF PL AL	39
A 569-30 BF PL ANM	39
A 569-30 BF PL SW	39
A 569-30 BF PL WW	39
A 590 A AL	429
A 590 A CH	429
A 590 A MO	429
A 590 A SW	429
A 590 A WW	429
A 590 AL	392
A 590 BF ANM	392
A 590 BF K ANM	394
A 590 BF K SW	394
A 590 BF K WW	394
A 590 BF KO5 ANM	393
A 590 BF KO5 SW	393
A 590 BF KO5 WW	393
A 590 BF L ANM	394
A 590 BF L SW	394
A 590 BF L WW	394
A 590 BF NA AL	392
A 590 BF NA ANM	392
A 590 BF NA CH	392
A 590 BF NA KO5 AL	393
A 590 BF NA KO5 ANM	393
A 590 BF NA KO5 CH	393
A 590 BF NA KO5 MO	393
A 590 BF NA KO5 SW	393
A 590 BF NA KO5 SWM	393
A 590 BF NA KO5 WW	393
A 590 BF NA KO5 WWM	393
A 590 BF NA MO	392
A 590 BF NA SW	392
A 590 BF NA SWM	392
A 590 BF NA WW	392
A 590 BF NA WWM	392
A 590 BF SW	392
A 590 BF T ANM	395
A 590 BF T SW	395
A 590 BF T WW	395
A 590 BF WW	392
A 590 BFA ANM	429
A 590 BFA SW	429
A 590 BFA SWM	429
A 590 BFA WW	429
A 590 BFA WWM	429
A 590 BFKO5 K ANM	395
A 590 BFKO5 K SW	395
A 590 BFKO5 K WW	395
A 590 BFKO5 L ANM	394

Ref.-no.	Page
A 590 BFKO5 L SW	394
A 590 BFKO5 L WW	394
A 590 BFKO5 T ANM	395
A 590 BFKO5 T SW	395
A 590 BFKO5 T WW	395
A 590 CARD	106
A 590 CARD AL	106
A 590 CARD ANM	106
A 590 CARD CH	106
A 590 CARD MO	106
A 590 CARD SW	106
A 590 CARD SWM	106
A 590 CARD WW	106
A 590 CARD WWM	106
A 590 CH	392
A 590 K AL	394
A 590 K CH	394
A 590 K MO	394
A 590 K SW	394
A 590 K SWM	394
A 590 K WW	394
A 590 K WWM	394
A 590 K1KO AL	396
A 590 K1KO WW	396
A 590 KO5 AL	393
A 590 KO5 CH	393
A 590 KO5 K AL	395
A 590 KO5 K CH	395
A 590 KO5 K MO	395
A 590 KO5 K SW	395
A 590 KO5 K WW	395
A 590 KO5 L AL	394
A 590 KO5 L CH	394
A 590 KO5 L MO	394
A 590 KO5 L SW	394
A 590 KO5 L WW	394
A 590 KO5 MO	393
A 590 KO5 SW	393
A 590 KO5 SWM	393
A 590 KO5 T AL	395
A 590 KO5 T CH	395
A 590 KO5 T MO	395
A 590 KO5 T SW	395
A 590 KO5 T WW	395
A 590 KO5 WW	393
A 590 KO5 WWM	393
A 590 L AL	394
A 590 L CH	394
A 590 L MO	394
A 590 L SW	394
A 590 L SWM	394
A 590 L WW	394
A 590 L WWM	394
A 590 L1KO AL	396
A 590 L1KO WW	396
A 590 MO	392
A 590 NA GL	346
A 590 NA GL PL	346
A 590 SW	392
A 590 SWM	392
A 590 T AL	395
A 590 T CH	395
A 590 T MO	395
A 590 T SW	395
A 590 T SWM	395
A 590 T WW	395
A 590 T WWM	395
A 590 T1KO AL	396
A 590 T1KO WW	396
A 590 WW	392
A 590 WWM	392
A 590 Z	26
A 590 Z AL	26
A 590 Z SW	26
A 590 Z SWM	26
A 590 Z WW	26
A 590 Z WWM	26
A 590 ZA WW	439
A 593 BF AL	398

Ref.-no.	Page
A 593 BF ANM	398
A 593 BF CH	398
A 593 BF MO	398
A 593 BF SW	398
A 593 BF SWM	398
A 593 BF WW	398
A 593 BF WWM	398
A 594-0	377
A 594-0 AL	437
A 594-0 ANM	437
A 594-0 CH	437
A 594-0 GN	377
A 594-0 MO	437
A 594-0 SW	437
A 594-0 SWM	437
A 594-0 WW	377
A 594-0 WWM	437
A 594-125	373
A 594-125 AL	432
A 594-125 ANM	432
A 594-125 CH	432
A 594-125 MO	432
A 594-125 SW	432
A 594-125 WW	373
A 594-1915	373
A 594-1915 AL	431
A 594-1915 ANM	431
A 594-1915 CH	431
A 594-1915 MO	431
A 594-1915 SW	431
A 594-1915 WW	373
A 595 AL	397
A 595 BF ANM	397
A 595 BF KO5 ANM	397
A 595 BF KO5 SW	397
A 595 BF KO5 WW	397
A 595 BF P ANM	398
A 595 BF P SW	398
A 595 BF P WW	398
A 595 BF SW	397
A 595 BF WW	397
A 595 CH	397
A 595 KO5 AL	397
A 595 KO5 CH	397
A 595 KO5 MO	397
A 595 KO5 SW	397
A 595 KO5 SWM	397
A 595 KO5 WW	397
A 595 KO5 WWM	397
A 595 MO	397
A 595 P AL	398
A 595 P CH	398
A 595 P MO	398
A 595 P SW	398
A 595 P SWM	398
A 595 P WW	398
A 595 P WWM	398
A 595 SW	397
A 595 SWM	397
A 595 WW	397
A 595 WWM	397
A 93 HP	398
A AT 581 Z WW	296
A CARD RFID AL	109
A CARD RFID ANM	109
A CARD RFID CH	109
A CARD RFID MO	109
A CARD RFID SW	109
A CARD RFID SWM	109
A CARD RFID WW	109
A CARD RFID WWM	109
A CU KO5 D AL	111
A CU KO5 D ANM	111
A CU KO5 D CH	111
A CU KO5 D MO	111
A CU KO5 D SW	111
A CU KO5 D WW	111
A CU KO5 M 230 AL	115
A CU KO5 M 230 ANM	115

Ref.-no.	Page
A CU KO5 M 230 CH	115
A CU KO5 M 230 MO	115
A CU KO5 M 230 SW	115
A CU KO5 M 230 WW	115
A CU KO5 M 24 AL	114
A CU KO5 M 24 ANM	114
A CU KO5 M 24 CH	114
A CU KO5 M 24 MO	114
A CU KO5 M 24 SW	114
A CU KO5 M 24 WW	114
A CU KO5 M AL	113
A CU KO5 M ANM	113
A CU KO5 M CH	113
A CU KO5 M MO	113
A CU KO5 M SW	113
A CU KO5 M WW	113
A CU KO6 M 24 SW	116
A CU KO6 M 24 WW	116
A CU KO6 M SW	116
A CU KO6 M WW	116
A CU KO6 TX SW	117
A CU KO6 TX WW	117
A RU KO5 D AL	110
A RU KO5 D ANM	110
A RU KO5 D CH	110
A RU KO5 D MO	110
A RU KO5 D SW	110
A RU KO5 D WW	110
A RU KO5 M AL	112
A RU KO5 M ANM	112
A RU KO5 M CH	112
A RU KO5 M MO	112
A RU KO5 M SW	112
A RU KO5 M WW	112
ABA 1520	349
ABA 1520 BF GN	349
ABA 1520 BF KI GN	349
ABA 1520 BF KI O	349
ABA 1520 BF O	349
ABA 1520 BFKO GN	351
ABA 1520 BFKO O	351
ABA 1520 BFKO RT	351
ABA 1520 BFNAKO GN	351
ABA 1520 BFNAKO O	351
ABA 1520 BFNAKO RT	351
ABA 1520 BFNAKO WW	351
ABA 1520 KI	349
ABA 1520 KI WW	349
ABA 1520 KO	351
ABA 1520 KO WW	351
ABA 1520 WW	349
ABA 561 PLTV	370
ABA 561 PLTV WW	370
ABA 565-2	377
ABA 565-2 WW	377
ABA 569 PLT	372
ABA 569 PLT WW	372
ABAS 1520 BFKL GN	354
ABAS 1520 BFKL O	354
ABAS 1520 KIKL	355
ABAS 1520 KIKL GN	355
ABAS 1520 KIKL O	355
ABAS 1520 KIKL WW	355
ABAS 1520 KL	354
ABAS 1520 KL WW	354
ABAS 1520 KLKO	356
ABAS 1520 KLKO GN	356
ABAS 1520 KLKO O	356
ABAS 1520 KLKO RT	356
ABAS 1520 KLKO WW	356
ABAS 581 N	381
ABAS 581 N WW	381
ABAS 581 NNA	381
ABAS 581 NNA WW	381
ABAS 582 N	381
ABAS 582 N WW	381
ABAS 582 NNA	381
ABAS 582 NNA WW	381
ABAS 583 N	381

Ref.-no.	Page
ABAS 583 N WW	381
ABAS 591	344
ABAS 591 K	345
ABAS 591 K WW	345
ABAS 591 K1KO5	346
ABAS 591 K1KO5 WW	346
ABAS 591 KO5	344
ABAS 591 KO5 WW	344
ABAS 591 KO5K	345
ABAS 591 KO5K WW	345
ABAS 591 KO5L	345
ABAS 591 KO5L WW	345
ABAS 591 KO5T	345
ABAS 591 KO5T WW	345
ABAS 591 L	344
ABAS 591 L WW	344
ABAS 591 L1KO5	346
ABAS 591 L1KO5 WW	346
ABAS 591 T	345
ABAS 591 T WW	345
ABAS 591 T1KO5	346
ABAS 591 T1KO5 WW	346
ABAS 591 WW	344
ABAS 591-5	347
ABAS 591-5 KO5	348
ABAS 591-5 KO5 WW	348
ABAS 591-5 P	348
ABAS 591-5 P WW	348
ABAS 591-5 WW	347
AC 581 AL	447
AC 581 BF ANM	448
AC 581 BF SW	447
AC 581 BF WW	447
AC 581 BFNA ANM	450
AC 581 BFNA SW	450
AC 581 BFNA WW	450
AC 581 CH	447
AC 581 GL BLGR	448
AC 581 GL CH	449
AC 581 GL MO	449
AC 581 GL RT	448
AC 581 GL SI	449
AC 581 GL SW	448
AC 581 GL WMT	448
AC 581 GL WW	448
AC 581 MO	447
AC 581 SW	447
AC 581 WW	447
AC 582 AL	447
AC 582 BF ANM	448
AC 582 BF SW	447
AC 582 BF WW	447
AC 582 BFNA ANM	450
AC 582 BFNA SW	450
AC 582 BFNA WW	450
AC 582 CH	447
AC 582 GL BLGR	448
AC 582 GL CH	449
AC 582 GL MO	449
AC 582 GL RT	448
AC 582 GL SI	449
AC 582 GL SW	448
AC 582 GL WMT	448
AC 582 GL WW	448
AC 582 MO	447
AC 582 SW	447
AC 582 WW	447
AC 5820 BFNA ANM	451
AC 5820 BFNA SW	451
AC 5820 BFNA WW	451
AC 583 AL	447
AC 583 BF ANM	448
AC 583 BF SW	447
AC 583 BF WW	447
AC 583 BFNA ANM	450
AC 583 BFNA SW	450
AC 583 BFNA WW	450
AC 583 CH	447
AC 583 GL BLGR	448

Ref.-no.	Page
AC 583 GL CH	449
AC 583 GL MO	449
AC 583 GL RT	448
AC 583 GL SI	449
AC 583 GL SW	448
AC 583 GL WMT	448
AC 583 GL WW	448
AC 583 MO	447
AC 583 SW	447
AC 583 WW	447
AC 5830 BFNA ANM	451
AC 5830 BFNA SW	451
AC 5830 BFNA WW	451
AC 584 AL	447
AC 584 BF ANM	448
AC 584 BF SW	447
AC 584 BF WW	447
AC 584 BFNA ANM	450
AC 584 BFNA SW	450
AC 584 BFNA WW	450
AC 584 CH	447
AC 584 GL BLGR	448
AC 584 GL CH	449
AC 584 GL MO	449
AC 584 GL RT	448
AC 584 GL SI	449
AC 584 GL SW	448
AC 584 GL WMT	448
AC 584 GL WW	448
AC 584 MO	447
AC 584 SW	447
AC 584 WW	447
AC 5840 BFNA ANM	451
AC 5840 BFNA SW	451
AC 5840 BFNA WW	451
AC 585 AL	447
AC 585 BF ANM	448
AC 585 BF SW	447
AC 585 BF WW	447
AC 585 BFNA ANM	450
AC 585 BFNA SW	450
AC 585 BFNA WW	450
AC 585 CH	447
AC 585 GL BLGR	448
AC 585 GL CH	449
AC 585 GL MO	449
AC 585 GL RT	448
AC 585 GL SI	449
AC 585 GL SW	448
AC 585 GL WMT	448
AC 585 GL WW	448
AC 585 MO	447
AC 585 SW	447
AC 585 WW	447
AC 5850 BFNA ANM	451
AC 5850 BFNA SW	451
AC 5850 BFNA WW	451
AC 80 MA	449
AC 80 NA	449
AC 80 NAS	449
AC 81 NA	451
AF 581 BF AL	337
AF 581 BF ANM	337
AF 581 BF SW	337
AF 581 BF SWM	337
AF 581 BF WW	337
AF 581 BF WWM	337
AF 582 BF AL	445
AF 582 BF ANM	445
AF 582 BF SW	445
AF 582 BF SWM	445
AF 582 BF WW	445
AF 582 BF WWM	445
AF 582-0 BF AL	337
AF 582-0 BF ANM	337
AF 582-0 BF SW	337
AF 582-0 BF SWM	337
AF 582-0 BF WW	337
AF 582-0 BF WWM	337

Ref.-no.	Page
AF 583 BF AL	445
AF 583 BF ANM	445
AF 583 BF SW	445
AF 583 BF SWM	445
AF 583 BF WW	445
AF 583 BF WWM	445
AF 584 BF AL	445
AF 584 BF ANM	445
AF 584 BF SW	445
AF 584 BF SWM	445
AF 584 BF WW	445
AF 584 BF WWM	445
AF 585 BF AL	445
AF 585 BF ANM	445
AF 585 BF SW	445
AF 585 BF SWM	445
AF 585 BF WW	445
AF 585 BF WWM	445
AL 10.480 ET	560
AL 10.480 ET AN	560
AL 101	684
AL 101 AN	684
AL 101 D	684
AL 101 KO5	684
AL 101 KO5 AN	684
AL 101 KO5 D	684
AL 101 KO5P	684
AL 101 KO5P AN	684
AL 101 KO5P D	684
AL 101 P	684
AL 101 P AN	684
AL 101 P D	684
AL 102	685
AL 102 AN	685
AL 102 D	685
AL 102 KO5	685
AL 102 KO5 AN	685
AL 102 KO5 D	685
AL 102 KO5P	685
AL 102 KO5P AN	685
AL 102 KO5P D	685
AL 102 P	685
AL 102 P AN	685
AL 102 P D	685
AL 1060 ET	560
AL 1060 ET AN	560
AL 12-0 D K 01	622
AL 12-0 D R 01	620
AL 12-0 K 0	622
AL 12-0 KO D K 01	622
AL 12-0 KO D R 01	620
AL 12-0 KO K 0	622
AL 12-0 KO R 0	620
AL 12-0 R 0	620
AL 12-20 D K 01	622
AL 12-20 D R 01	620
AL 12-20 K 0	622
AL 12-20 R 0	620
AL 12-200 D K 01	622
AL 12-200 D R 01	620
AL 12-200 K 0	622
AL 12-200 R 0	620
AL 12-25 D K 01	623
AL 12-25 D R 01	621
AL 12-25 K 0	623
AL 12-25 R 0	621
AL 12-250 D K 01	623
AL 12-250 D R 01	621
AL 12-250 K 0	623
AL 12-250 R 0	621
AL 12-5 D K 01	623
AL 12-5 D R 01	621
AL 12-5 K 0	623
AL 12-5 KO D K 01	623
AL 12-5 KO D R 01	621
AL 12-5 KO K 0	623
AL 12-5 KO R 0	621
AL 12-5 P D K 01	623
AL 12-5 P D R 01	621

Ref.-no.	Page
AL 12-5 P K O	623
AL 12-5 P R O	621
AL 12-5 R O	621
AL 1520	527
AL 1520 AN	527
AL 1520 D	527
AL 1520 F-15 CA AN-L	71
AL 1520 F-15 CA D-L	71
AL 1520 F-15 CA-L	71
AL 1520 F-18 A AN-L	69
AL 1520 F-18 A D-L	69
AL 1520 F-18 A-L	69
AL 1520 F-18 C AN-L	70
AL 1520 F-18 C D-L	70
AL 1520 F-18 C-L	70
AL 1520 KI	527
AL 1520 KI AN	527
AL 1520 KI D	527
AL 1520 KIKL	538
AL 1520 KIKL AN	538
AL 1520 KIKL D	538
AL 1520 KINA	530
AL 1520 KINA AN	530
AL 1520 KINA D	530
AL 1520 KL	537
AL 1520 KL AN	537
AL 1520 KL D	537
AL 1520 NA	530
AL 1520 NA AN	530
AL 1520 NA D	530
AL 1520 NAKL	540
AL 1520 NAKL AN	540
AL 1520 NAKL D	540
AL 1520 NAKLSL	541
AL 1520 NAKLSL AN	541
AL 1520 NAKLSL D	541
AL 1520-13 SEV	542
AL 1520-13 SEV AN	542
AL 1520-15 CA AN-L	68
AL 1520-15 CA D-L	68
AL 1520-15 CA-L	68
AL 1520-18 A AN-L	66
AL 1520-18 A D-L	66
AL 1520-18 A-L	66
AL 1520-18 C AN-L	67
AL 1520-18 C D-L	67
AL 1520-18 C-L	67
AL 1520-O AN LNW	132
AL 1520-O D LNW	132
AL 1520-O LNW	132
AL 1521	528
AL 1521 AN	528
AL 1521 D	528
AL 1521 F AN PL-1	543
AL 1521 F D PL-1	543
AL 1521 F PL-1	543
AL 1521 FKI AN PL-1	543
AL 1521 FKI D PL-1	543
AL 1521 FKI PL-1	543
AL 1521 FKL AN PL1L	543
AL 1521 FKL D PL1L	543
AL 1521 FKL PL1L	543
AL 1521 KI	528
AL 1521 KI AN	528
AL 1521 KI D	528
AL 1521 KIKL	539
AL 1521 KIKL AN	539
AL 1521 KIKL D	539
AL 1521 KL AN	538
AL 1521 KL D	538
AL 1539-O AN LNW	133
AL 1539-O D LNW	133
AL 1539-O LNW	133
AL 1539-OO AN LNW	133
AL 1539-OO D LNW	133
AL 1539-OO LNW	133
AL 1700	231
AL 1700 AN	231
AL 1700 D	231

Ref.-no.	Page
AL 1700 P	233
AL 1700 P AN	233
AL 1700 P D	233
AL 1701	235
AL 1701 AN	235
AL 1701 D	235
AL 1701 P	237
AL 1701 P AN	237
AL 1701 P D	237
AL 1702	239
AL 1702 AN	239
AL 1702 D	239
AL 17180	249
AL 17180 AN	249
AL 17180 D	249
AL 17180 WU	251
AL 17180 WU AN	251
AL 17180 WU D	251
AL 17181	255
AL 17181 AN	255
AL 17181 D	255
AL 17181 WU	257
AL 17181 WU AN	257
AL 17181 WU D	257
AL 17280	253
AL 17280 AN	253
AL 17280 D	253
AL 17281	259
AL 17281 AN	259
AL 17281 D	259
AL 1751 BT	243
AL 1751 BT AN	243
AL 1751 BT D	243
AL 1751 PBT	245
AL 1751 PBT AN	245
AL 1751 PBT D	245
AL 1940	551
AL 1940 AN	551
AL 1940 D	551
AL 1940 KO5	687
AL 1940 KO5 AN	687
AL 1940 KO5 D	687
AL 1941	526
AL 1941 AN	526
AL 1941 D	526
AL 1969 USB	74
AL 1969 USB AN	74
AL 1969 USB D	74
AL 1969-1 NA WE	573
AL 1969-1 NA WE AN	573
AL 1969-1 NA WE D	573
AL 1969-1 WE	571
AL 1969-1 WE AN	571
AL 1969-1 WE D	571
AL 1969-15 NA WE	576
AL 1969-15 NA WE AN	576
AL 1969-15 NA WE D	576
AL 1969-15 WE	574
AL 1969-15 WE AN	574
AL 1969-15 WE D	574
AL 1969-2 AT	576
AL 1969-2 NA AT	577
AL 1969-2 NA WE	573
AL 1969-2 NA WE AN	573
AL 1969-2 NA WE D	573
AL 1969-2 WE	571
AL 1969-2 WE AN	571
AL 1969-2 WE D	571
AL 1969-25 NA WE	576
AL 1969-25 NA WE AN	576
AL 1969-25 NA WE D	576
AL 1969-25 WE	574
AL 1969-25 WE AN	574
AL 1969-25 WE D	574
AL 2178	691
AL 2178 AN	691
AL 2178 D	691
AL 2178 ORTS	691
AL 2178 ORTS AN	691

Ref.-no.	Page
AL 2178 ORTS D	691
AL 2178 TS	691
AL 2178 TS AN	691
AL 2178 TS D	691
AL 2401 TSA	673
AL 2401 TSA AN	673
AL 2401 TSA D	673
AL 2401 TSAP	673
AL 2401 TSAP AN	673
AL 2401 TSAP D	673
AL 2402 TSA	673
AL 2402 TSA AN	673
AL 2402 TSA D	673
AL 2402 TSAP	673
AL 2402 TSAP AN	673
AL 2402 TSAP D	673
AL 2403 TSA	673
AL 2403 TSA AN	673
AL 2403 TSA D	673
AL 2404 TSA	673
AL 2404 TSA AN	673
AL 2404 TSA D	673
AL 2404 TSAP 14	674
AL 2404 TSAP 23	674
AL 2404 TSAP AN 14	674
AL 2404 TSAP AN 23	674
AL 2404 TSAP D 14	674
AL 2404 TSAP D 23	674
AL 2501 TSA	668
AL 2501 TSA AN	668
AL 2501 TSA D	668
AL 2502 TSA	668
AL 2502 TSA AN	668
AL 2502 TSA D	668
AL 2503 TSA	668
AL 2503 TSA AN	668
AL 2503 TSA D	668
AL 2504 TSA	668
AL 2504 TSA AN	668
AL 2504 TSA D	668
AL 2520-45	531
AL 2520-45 AN	531
AL 2521 IN AN PL	547
AL 2521 IN D PL	547
AL 2521 IN PL	547
AL 2521 NAUF	536
AL 2521-15	544
AL 2521-20	544
AL 2539 AN LED LW-12	136
AL 2539 AN LEDWB	135
AL 2539 AN RGB	136
AL 2539 LED LW-12	136
AL 2539 LEDWB	135
AL 2539 N71 RGB	135
AL 2539 N71AN LED B	134
AL 2539 N71AN LED W	134
AL 2539 N71AN RGB	135
AL 2539 N71LED B	134
AL 2539 N71LED W	134
AL 2539 RGB	136
AL 2539 RGB D	136
AL 2539-2 AN LED RG	135
AL 2539-2 LED RG	135
AL 2567-G3	118
AL 2567-G3 AN	118
AL 2581 A-L	590
AL 2582 A-L	590
AL 2583 A-L	591
AL 2925	526
AL 2925 AN	526
AL 2925 D	526
AL 2928	525
AL 2928 AN	525
AL 2928 D	525
AL 2937	581
AL 2937 AN	581
AL 2961 Z5-L	582
AL 2962-1	564
AL 2962-1 AN	564

Ref.-no.	Page
AL 2962-1 D	564
AL 2962-2	564
AL 2962-2 AN	564
AL 2962-2 D	564
AL 2964	581
AL 2964 AN	581
AL 2965-2	579
AL 2967 S	567
AL 2967 S AN	567
AL 2969 T	578
AL 2969 T AN	578
AL 2969 T D	578
AL 2969-1 NAUA	569
AL 2969-1 NAUA AN	569
AL 2969-1 NAUA D	569
AL 2969-1 UA	568
AL 2969-1 UA AN	568
AL 2969-1 UA D	568
AL 2969-2 NAUA	570
AL 2969-2 NAUA AN	570
AL 2969-2 NAUA D	570
AL 2969-2 UA	570
AL 2969-2 UA AN	570
AL 2969-2 UA D	570
AL 2981	588
AL 2981 AN	588
AL 2981 D	588
AL 2982	588
AL 2982 AN	588
AL 2982 D	588
AL 2983	588
AL 2983 AN	588
AL 2983 D	588
AL 2984	588
AL 2984 AN	588
AL 2984 D	588
AL 2985	588
AL 2985 AN	588
AL 2985 D	588
AL 2990	516
AL 2990 A	568
AL 2990 A AN	568
AL 2990 A D	568
AL 2990 AN	516
AL 2990 CARD	107
AL 2990 CARD AN	107
AL 2990 CARD D	107
AL 2990 D	516
AL 2990 K	519
AL 2990 K AN	519
AL 2990 K D	519
AL 2990 KL	29
AL 2990 KL AN	29
AL 2990 KL D	29
AL 2990 KL LAN	121
AL 2990 KL LAN AN	121
AL 2990 KL LAN D	121
AL 2990 KL SOC	120
AL 2990 KL SOC AN	120
AL 2990 KL SOC D	120
AL 2990 KL USB	75
AL 2990 KL USB AN	75
AL 2990 KL USB D	75
AL 2990 KO2	517
AL 2990 KO2 AN	517
AL 2990 KO5	517
AL 2990 KO5 AN	517
AL 2990 KO5 D	517
AL 2990 KO5 K	519
AL 2990 KO5 K AN	519
AL 2990 KO5 K D	519
AL 2990 KO5 KP	521
AL 2990 KO5 L	519
AL 2990 KO5 L AN	519
AL 2990 KO5 L D	519
AL 2990 KO5 LP	521
AL 2990 KO5 T	520
AL 2990 KO5 T AN	520
AL 2990 KO5 T D	520

Ref.-no.	Page
AL 2990 KO5 TP	521
AL 2990 KP	521
AL 2990 L	518
AL 2990 L AN	518
AL 2990 L D	518
AL 2990 LP	521
AL 2990 NA	517
AL 2990 NA AN	517
AL 2990 NA D	517
AL 2990 NAKL	29
AL 2990 NAKL AN	29
AL 2990 NAKL D	584
AL 2990 NAKO5	518
AL 2990 NAKO5 AN	518
AL 2990 SAT	565
AL 2990 SAT AN	565
AL 2990 SAT D	565
AL 2990 T	520
AL 2990 T AN	520
AL 2990 T D	520
AL 2990 TP	521
AL 2990 TV	565
AL 2990 TV AN	565
AL 2990 TV D	565
AL 2994 B	579
AL 2994 B AN	579
AL 2994 B D	579
AL 2995	523
AL 2995 AN	523
AL 2995 D	523
AL 2995 KO5	523
AL 2995 KO5 AN	523
AL 2995 KO5 D	523
AL 2995 P	524
AL 2995 P AN	524
AL 2995 P D	524
AL 2995 PP	524
AL 3181	688
AL 3181 AN	688
AL 3181 D	688
AL 3181-1	689
AL 3181-1 AN	689
AL 3181-1 D	689
AL 3281	689
AL 3281 AN	689
AL 3281 D	689
AL 3281-1	690
AL 3281-1 AN	690
AL 3281-1 D	690
AL 3521-5 CN AN PL	546
AL 3521-5 CN PL	546
AL 3521-5 CND PL	546
AL 4093 TSA	676
AL 4093 TSA AN	676
AL 4093 TSA D	676
AL 50 NA AN-L	669
AL 50 NA D-L	669
AL 50 NA-L	669
AL 5020 KI AN-L	541
AL 5020 KI-L	541
AL 5022 KI-L	541
AL 5022 KI-L AN	541
AL 5201 HYG	319
AL 5201 HYG AN	319
AL 569-30 BF PL AN L	39
AL 569-30 BF PL-L	39
AL 993	525
AL 993 AN	525
AL 993 D	525
AL CARD RFID	109
AL CARD RFID AN	109
AL CARD RFID D	109
AL CU KO5 D	111
AL CU KO5 D AN	111
AL CU KO5 D D	111
AL CU KO5 M	113
AL CU KO5 M 230	115
AL CU KO5 M 230 AN	115
AL CU KO5 M 230 D	115

Ref.-no.	Page
AL CU KO5 M 24	114
AL CU KO5 M 24 AN	114
AL CU KO5 M 24 D	114
AL CU KO5 M AN	113
AL CU KO5 M D	113
AL RU KO5 D	110
AL RU KO5 D AN	110
AL RU KO5 D D	110
AL RU KO5 M	112
AL RU KO5 M AN	112
AL RU KO5 M D	112
AL1521KL	538
ALD 2981	593
ALD 2981 AN	594
ALD 2981 D	594
ALD 2982	593
ALD 2982 AN	594
ALD 2982 D	594
ALD 2983	593
ALD 2983 AN	594
ALD 2983 D	594
ALD 2984-L	593
ALD 2985-L	593
AR 04	297
AS 10.480 ET	367
AS 10.480 ET WW	367
AS 101	680
AS 101 KO5	680
AS 101 KO5 WW	680
AS 101 KO5P	680
AS 101 KO5P WW	680
AS 101 P	680
AS 101 P WW	680
AS 101 WW	680
AS 102	681
AS 102 KO5	681
AS 102 KO5 WW	681
AS 102 KO5P	681
AS 102 KO5P WW	681
AS 102 P	681
AS 102 P WW	681
AS 102 WW	681
AS 1060 ET	367
AS 1060 ET WW	367
AS 1520 BFKIKL	355
AS 1520 BFKIKL GN	355
AS 1520 BFKIKL O	355
AS 1520 BFKIKL RT	355
AS 1520 BFKIKL WW	355
AS 1520 BFKL	354
AS 1520 BFKL BL	354
AS 1520 BFKL GN	354
AS 1520 BFKL O	354
AS 1520 BFKL RT	354
AS 1520 BFKL WW	354
AS 1520 BFKLKO	356
AS 1520 BFKLKO GN	356
AS 1520 BFKLKO O	356
AS 1520 BFKLKO RT	356
AS 1520 BFKLKO WW	356
AS 1520 BFKLSL	356
AS 1520 BFKLSL GN	356
AS 1520 BFKLSL O	356
AS 1520 BFKLSL RT	356
AS 1520 BFKLSL WW	356
AS 1520 KIKL	355
AS 1520 KIKL WW	355
AS 1520 KL	354
AS 1520 KL WW	354
AS 1521 BFKIKL	355
AS 1521 BFKIKL GN	355
AS 1521 BFKIKL O	355
AS 1521 BFKIKL WW	355
AS 1521 BFKL	355
AS 1521 BFKL GN	355
AS 1521 BFKL O	355
AS 1521 BFKL WW	355
AS 1521 KIKL	355
AS 1521 KIKL WW	355

Ref.-no.	Page
AS 1521 KL	355
AS 1521 KL WW	355
AS 1522	362
AS 1522 BF	362
AS 1522 BF WW	362
AS 1522 NA	362
AS 1522 NA WW	362
AS 1522 WW	362
AS 1700	230
AS 1700 P	232
AS 1700 P WW	232
AS 1700 WW	230
AS 1701	234
AS 1701 P	236
AS 1701 P WW	236
AS 1701 WW	234
AS 1702	238
AS 1702 WW	238
AS 1751 BT	243
AS 1751 BT WW	243
AS 1751 PBT	245
AS 1751 PBT WW	245
AS 5010 KIU	361
AS 5010 KIU WW	361
AS 5010 U	361
AS 5010 U WW	361
AS 5020 KIU	361
AS 5020 KIU WW	361
AS 5020 U	360
AS 5020 U WW	360
AS 5022 KIU	361
AS 5022 KIU WW	361
AS 5022 U	361
AS 5022 U WW	361
AS 523	362
AS 523 BF	362
AS 523 BF WW	362
AS 523 WW	362
AS 5544.03 V	363
AS 5544.03 V WW	363
AS 5545 EU	361
AS 5545 EU WW	361
AS 5546 EU	361
AS 5546 EU WW	361
AS 5575 EU	360
AS 5575 EU WW	360
AS 5576 U	360
AS 5576 U WW	360
AS 561 GL BL	347
AS 561 GL GE	347
AS 561 GL RT	347
AS 581	380
AS 581 A AL	440
AS 581 A CH	440
AS 581 A MO	440
AS 581 A SW	440
AS 581 A W	385
AS 581 A WW	385
AS 581 ANA W	386
AS 581 ANA WW	386
AS 581 BF	380
AS 581 BF GN	380
AS 581 BF INA	382
AS 581 BF INA WW	382
AS 581 BF O	380
AS 581 BF RT	380
AS 581 BF WW	380
AS 581 BFKL	379
AS 581 BFKL WW	379
AS 581 BFKLSL	379
AS 581 BFKLSL WW	379
AS 581 GL BL	347
AS 581 GL GE	347
AS 581 GL RT	347
AS 581 NA	381
AS 581 NA WW	381
AS 581 SW	380
AS 581 WW	380
AS 581-1 BF INA	387

Ref.-no.	Page
AS 581-1 BF INA WW	387
AS 582	380
AS 582 A AL	440
AS 582 A CH	440
AS 582 A MO	440
AS 582 A SW	440
AS 582 A W	385
AS 582 A WW	385
AS 582 BF	380
AS 582 BF GN	380
AS 582 BF INA	383
AS 582 BF INA WW	383
AS 582 BF O	380
AS 582 BF RT	380
AS 582 BF WW	380
AS 582 NA	381
AS 582 NA WW	381
AS 582 WW	380
AS 5820 BF INA	383
AS 5820 BF INA WW	383
AS 5820 NA	382
AS 5820 NA WW	382
AS 583	380
AS 583 A AL	440
AS 583 A CH	440
AS 583 A MO	440
AS 583 A SW	440
AS 583 A W	385
AS 583 A WW	385
AS 583 BF	380
AS 583 BF GN	380
AS 583 BF INA	383
AS 583 BF INA WW	383
AS 583 BF O	380
AS 583 BF RT	380
AS 583 BF WW	380
AS 583 NA	381
AS 583 NA WW	381
AS 583 WW	380
AS 5830 BF INA	383
AS 5830 BF INA WW	383
AS 5830 NA	382
AS 5830 NA WW	382
AS 584	380
AS 584 BF	380
AS 584 BF GN	380
AS 584 BF INA	383
AS 584 BF INA WW	383
AS 584 BF O	380
AS 584 BF RT	380
AS 584 BF WW	380
AS 584 NA	381
AS 584 NA WW	381
AS 584 WW	380
AS 5840 BF INA	383
AS 5840 BF INA WW	383
AS 5840 NA	382
AS 5840 NA WW	382
AS 585	380
AS 585 BF	380
AS 585 BF GN	380
AS 585 BF INA	383
AS 585 BF INA WW	383
AS 585 BF O	380
AS 585 BF RT	380
AS 585 BF WW	380
AS 585 NA	381
AS 585 NA WW	381
AS 585 WW	380
AS 5850 BF INA	383
AS 5850 BF INA WW	383
AS 5850 NA	382
AS 5850 NA WW	382
AS 590 A	371
AS 590 A WW	371
AS 591	344
AS 591 BF	344
AS 591 BF RT	344
AS 591 BF WW	344

Ref.-no.	Page
AS 591 BFS	344
AS 591 BFS WW	344
AS 591 K	345
AS 591 K WW	345
AS 591 K1K05	346
AS 591 K1K05 WW	346
AS 591 K05	344
AS 591 K05 WW	344
AS 591 K05BF	344
AS 591 K05BF WW	344
AS 591 K05BFS	344
AS 591 K05BFS WW	344
AS 591 K05K	345
AS 591 K05K WW	345
AS 591 K05L	345
AS 591 K05L WW	345
AS 591 K05T	345
AS 591 K05T WW	345
AS 591 L	344
AS 591 L WW	344
AS 591 L1K05	346
AS 591 L1K05 WW	346
AS 591 T	345
AS 591 T WW	345
AS 591 T1K05	346
AS 591 T1K05 WW	346
AS 591 WW	344
AS 591-5	347
AS 591-5 BF	347
AS 591-5 BF WW	347
AS 591-5 K05	348
AS 591-5 K05 WW	348
AS 591-5 K05BF	348
AS 591-5 K05BF WW	348
AS 591-5 P	348
AS 591-5 P WW	348
AS 591-5 PBF	348
AS 591-5 PBF WW	348
AS 591-5 WW	347
AS 61 INA BT	387
AS 81 INA BT	384
AS 81 NA	382
AS 81-1 INA BT	384
AS 82 INA BT	384
AS 82 NA	382
AS 82-1 INA BT	384
AS 90 HP	346
AS 90-5 HP	348
AS A 50 DS	253
AS CD 50 DS	253
ASET 2815	313
ASET 3010	313
ASET 3015	313
AT 04 WW	296
BLE A 590 ANM	205
BLE A 590 WW	205
BLE A 595 ANM	205
BLE A 595 WW	205
BLE LS 990 SW	205
BLE LS 990 WW	205
BLE LS 995 SW	205
BLE LS 995 WW	205
BM 360 MB WW	696
BS 1980 APM	339
BS 2171 AL PL	325
BS 2171 ALD PL	325
BS 2171 AN PL	325
BS 2171 EINS	324
BS 2171 ES PL	325
BS 2171 GCR PL	325
BS 2171 GO PL	325
BS 2171 KO AL PL	325
BS 2171 KO ALD PL	325
BS 2171 KO AN PL	325
BS 2171 KO EINS	324
BS 2171 KO ES PL	325
BS 2171 KO GCR PL	325
BS 2171 KO GO PL	325
BS 2171 KO MEAT PL	325
BS 2171 KO MEC PL	325
BS 2171 KO PL	325
BS 2171 KO SW PL	325
BS 2171 KO SWM PL	325
BS 2171 KO WW PL	325
BS 2171 MEAT PL	325
BS 2171 MEC PL	325
BS 2171 PL	325
BS 2171 SW PL	325
BS 2171 SWM PL	325
BS 2171 WW PL	325
BS 2171 WWM PL	325
BS 2181	338
BS 2181 AL	338
BS 2181 ALD	338
BS 2181 AN	338
BS 2181 ES	338
BS 2181 GCR	338
BS 2181 GO	338
BS 2181 MEAT	338
BS 2181 MEC	338
BS 2181 SW	338
BS 2181 WW	338
BS 2182	338

Ref.-no.	Page
BS 2171 KO MEC PL	325
BS 2171 KO PL	325
BS 2171 KO SW PL	325
BS 2171 KO SWM PL	325
BS 2171 KO WW PL	325
BS 2171 KO WWM PL	325
BS 2171 MEAT PL	325
BS 2171 MEC PL	325
BS 2171 PL	325
BS 2171 SW PL	325
BS 2171 SWM PL	325
BS 2171 WW PL	325
BS 2171 WWM PL	325
BS 2171-15 EINS	332
BS 2171-15 V AL PL	332
BS 2171-15 V ALD PL	332
BS 2171-15 V AN PL	332
BS 2171-15 V ES PL	332
BS 2171-15 V GCR PL	332
BS 2171-15 V GO PL	332
BS 2171-15 V MEAT PL	332
BS 2171-15 V MEC PL	332
BS 2171-15 V PL-L	332
BS 2171-15 V SW PL-L	332
BS 2171-15 V WW PL-L	332
BS 2171-5 AL PL	333
BS 2171-5 ALD PL	333
BS 2171-5 AN PL	333
BS 2171-5 EINS	333
BS 2171-5 ES PL	333
BS 2171-5 GCR PL	333
BS 2171-5 GO PL	333
BS 2171-5 MEAT PL	333
BS 2171-5 MEC PL	333
BS 2171-5 PL	333
BS 2171-5 SW PL	333
BS 2171-5 SWM PL	333
BS 2171-5 WW PL	333
BS 2171-5 WWM PL	333
BS 2172 AL PL	329
BS 2172 ALD PL	329
BS 2172 AN PL	329
BS 2172 EINS	327
BS 2172 ES PL	329
BS 2172 GCR PL	329
BS 2172 GO PL	329
BS 2172 KO AL PL	330
BS 2172 KO ALD PL	330
BS 2172 KO AN PL	330
BS 2172 KO EINS	327
BS 2172 KO ES PL	330
BS 2172 KO GCR PL	330
BS 2172 KO GO PL	330
BS 2172 KO MEAT PL	330
BS 2172 KO MEC PL	330
BS 2172 KO PL	330
BS 2172 KO SW PL	330
BS 2172 KO SWM PL	330
BS 2172 KO WW PL	330
BS 2172 KO WWM PL	330
BS 2172 MEAT PL	329
BS 2172 MEC PL	329
BS 2172 PL	329
BS 2172 SW PL	329
BS 2172 SWM PL	329
BS 2172 WW PL	329
BS 2172 WWM PL	329
BS 2181	338
BS 2181 AL	338
BS 2181 ALD	338
BS 2181 AN	338
BS 2181 ES	338
BS 2181 GCR	338
BS 2181 GO	338
BS 2181 MEAT	338
BS 2181 MEC	338
BS 2181 SW	338
BS 2181 WW	338
BS 2182	338

Ref.-no.	Page
BS 2182 AL	338
BS 2182 ALD	338
BS 2182 AN	338
BS 2182 ES	338
BS 2182 GCR	338
BS 2182 GO	338
BS 2182 MEAT	338
BS 2182 MEC	338
BS 2182 SW	338
BS 2182 WW	338
BS 2190 CU KO AL PL	334
BS 2190 CU KO ALD PL	334
BS 2190 CU KOAN PL	334
BS 2190 CU KOEINS	334
BS 2190 CU KOES PL	334
BS 2190 CU KO GCR PL	334
BS 2190 CU KOGO PL	334
BS 2190 CU KOMEAT PL	334
BS 2190 CU KOMEK PL	334
BS 2190 CU KO PL	334
BS 2190 CU KO SW PL	334
BS 2190 CU KO WW PL	334
BS 2521 AL PL	326
BS 2521 ALD PL	326
BS 2521 AN PL	326
BS 2521 EINS	326
BS 2521 ES PL	326
BS 2521 GCR PL	326
BS 2521 GO PL	326
BS 2521 LG PL	326
BS 2521 MEAT PL	326
BS 2521 MEC PL	326
BS 2521 PL	326
BS 2521 SW PL	326
BS 2521 SWM PL	326
BS 2521 WW PL	326
BS 2521 WWM PL	326
BS 2522 AL PL	331
BS 2522 ALD PL	331
BS 2522 AN PL	331
BS 2522 EINS	331
BS 2522 ES PL	331
BS 2522 GCR PL	331
BS 2522 GO PL	331
BS 2522 MEAT PL	331
BS 2522 MEC PL	331
BS 2522 PL	331
BS 2522 SW PL	331
BS 2522 SWM PL	331
BS 2522 WW PL	331
BS 2522 WWM PL	331
BS 2971-15 V PL	332
BS 2971-15 V SW PL	332
BS 2971-15 V WW PL	332
BS 3172 EINS	548
BS 3172 KO EINS	548
BS 3522 EINS	550
BS 6042 M-40	21
BS 6042 M-50	21
BS 702-45 U WW	339
BTS 01	696
CD 10.480 ET WW	478
CD 101	683
CD 101 BR	683
CD 101 GB, ..PT	683
CD 101 GR	683
CD 101 K05	683
CD 101 K05 BR	683
CD 101 K05 GB, ..PT	683
CD 101 K05 GR	683
CD 101 K05 LG	683
CD 101 K05 SW	683
CD 101 K05 WW	683
CD 101 K05P	683
CD 101 K05P BR	683
CD 101 K05P GB, ..PT	683
CD 101 K05P GR	683
CD 101 K05P LG	683
CD 101 K05P SW	683

Ref.-no.	Page
CD 101 K05P WW	683
CD 101 LG	683
CD 101 P	683
CD 101 P BR	683
CD 101 P GB, ..PT	683
CD 101 P GR	683
CD 101 P LG	683
CD 101 P SW	683
CD 101 P WW	683
CD 101 SW	683
CD 101 WW	683
CD 102	683
CD 102 BR	683
CD 102 GB, ..PT	683
CD 102 GR	683
CD 102 K05	683
CD 102 K05 BR	683
CD 102 K05 GB, ..PT	683
CD 102 K05 GR	683
CD 102 K05 LG	683
CD 102 K05 SW	683
CD 102 K05 WW	683
CD 102 K05P	683
CD 102 K05P BR	683
CD 102 K05P GB, ..PT	683
CD 102 K05P GR	683
CD 102 K05P LG	683
CD 102 K05P SW	683
CD 102 K05P WW	683
CD 102 LG	683
CD 102 P	683
CD 102 P BR	683
CD 102 P GB, ..PT	683
CD 102 P GR	683
CD 102 P LG	683
CD 102 P SW	683
CD 102 P WW	683
CD 102 SW	683
CD 102 WW	683
CD 104.18 WU	17
CD 106.18 WU	17
CD 1060 ET WW	478
CD 11030 WW	478
CD 11030-20 WW	478
CD 11060 WW	478
CD 111 WW	24
CD 11120 WW	478
CD 11120-20 WW	478
CD 11240 WW	478
CD 11360 WW	478
CD 11720 WW	478
CD 133.18 WU	17
CD 134.18 WU	17
CD 1520	464
CD 1520 BF	464
CD 1520 BF BR	464
CD 1520 BF GN	464
CD 1520 BF GR	464
CD 1520 BF LG	464
CD 1520 BF O	464
CD 1520 BF WW	464
CD 1520 BFKI	465
CD 1520 BFKI BR	465
CD 1520 BFKI GN	465
CD 1520 BFKI GR	465
CD 1520 BFKI LG	465
CD 1520 BFKI O	465
CD 1520 BFKI RT	465
CD 1520 BFKI SW	465
CD 1520 BFKI WW	465
CD 1520 BFKINA	467
CD 1520 BFKINA BR	467
CD 1520 BFKINA GN	467
CD 1520 BFKINA GR	467
CD 1520 BFKINA LG	467
CD 1520 BFKINA O	467
CD 1520 BFKINA RT	467
CD 1520 BFKINA SW	467
CD 1520 BFKINA WW	467

Ref.-no.	Page
CD 1520 BFKL	468
CD 1520 BFKL BR	468
CD 1520 BFKL GN	468
CD 1520 BFKL GR	468
CD 1520 BFKL LG	468
CD 1520 BFKL O	468
CD 1520 BFKL WW	468
CD 1520 BFNA	466
CD 1520 BFNA BR	466
CD 1520 BFNA GN	466
CD 1520 BFNA GR	466
CD 1520 BFNA LG	466
CD 1520 BFNA O	466
CD 1520 BFNA WW	466
CD 1520 BFNAKL	469
CD 1520 BFNAKL BR	469
CD 1520 BFNAKL GN	469
CD 1520 BFNAKL GR	469
CD 1520 BFNAKL LG	469
CD 1520 BFNAKL O	469
CD 1520 BFNAKL WW	469
CD 1520 BFNAKO	467
CD 1520 BFNAKO GN	467
CD 1520 BFNAKO O	467
CD 1520 BFNAKO RT	467
CD 1520 BFNAKO WW	467
CD 1520 BR	464
CD 1520 GB, ..PT	464
CD 1520 GR	464
CD 1520 KI	465
CD 1520 KI GB, ..PT	465
CD 1520 KI WW	465
CD 1520 LG	464
CD 1520 NA	466
CD 1520 NA BR	466
CD 1520 NA GR	466
CD 1520 NA LG	466
CD 1520 NA SW	466
CD 1520 NA WW	466
CD 1520 NAKLKO	470
CD 1520 NAKLKO GN	470
CD 1520 NAKLKO O	470
CD 1520 NAKLKO RT	470
CD 1520 NAKLKO WW	470
CD 1520 NAKLSL	470
CD 1520 NAKLSL BR	470
CD 1520 NAKLSL GN	470
CD 1520 NAKLSL GR	470
CD 1520 NAKLSL LG	470
CD 1520 NAKLSL O	470
CD 1520 NAKLSL WW	470
CD 1520 SW	464
CD 1520 WW	464
CD 1521	465
CD 1521 BF	465
CD 1521 BF BR	465
CD 1521 BF GN	465
CD 1521 BF GR	465
CD 1521 BF LG	465
CD 1521 BF WW	465
CD 1521 BFKI	466
CD 1521 BFKI BR	466
CD 1521 BFKI GN	466
CD 1521 BFKI GR	466
CD 1521 BFKI LG	466
CD 1521 BFKI RT	466
CD 1521 BFKI WW	466
CD 1521 BFKIKL	469
CD 1521 BFKIKL BR	469
CD 1521 BFKIKL GN	469
CD 1521 BFKIKL GR	469
CD 1521 BFKIKL LG	469
CD 1521 BFKIKL O	469
CD 1521 BFKIKL WW	469
CD 1521 BFKL	469
CD 1521 BFKL BR	469
CD 1521 BFKL GN	469
CD 1521 BFKL LG	469
CD 1521 BFKL O	469

Ref.-no.	Page
CD 1521 BFKL WW	469
CD 1521 BFNA	466
CD 1521 BFNA BR	466
CD 1521 BFNA GN	466
CD 1521 BFNA GR	466
CD 1521 BFNA LG	466
CD 1521 BFNA WW	466
CD 1521 BFNAKL	470
CD 1521 BFNAKL BR	470
CD 1521 BFNAKL GN	470
CD 1521 BFNAKL GR	470
CD 1521 BFNAKL LG	470
CD 1521 BFNAKL O	470
CD 1521 BFNAKL WW	470
CD 1521 BR	465
CD 1521 FKI BR PL-1	471
CD 1521 FKI GB PL-1	471
CD 1521 FKI GR PL-1	471
CD 1521 FKI LG PL-1	471
CD 1521 FKI PL-1	471
CD 1521 FKI PT PL-1	471
CD 1521 FKI SW PL-1	471
CD 1521 FKI WW PL-1	471
CD 1521 GB, ..PT	465
CD 1521 GR	465
CD 1521 KI	466
CD 1521 KI BR	466
CD 1521 KI GB	466
CD 1521 KI GR	466
CD 1521 KI LG	466
CD 1521 KI PT	466
CD 1521 KI SW	466
CD 1521 KI WW	466
CD 1521 LG	465
CD 1521 SW	465
CD 1521 WW	465
CD 1540	472
CD 1540 BR	472
CD 1540 GR	472
CD 1540 KO5	686
CD 1540 KO5 GR	686
CD 1540 KO5 LG	686
CD 1540 KO5 SW	686
CD 1540 KO5 WW	686
CD 1540 LG	472
CD 1540 SW	472
CD 1540 WW	472
CD 1541	464
CD 1541 BR	464
CD 1541 GB, ..PT	464
CD 1541 GR	464
CD 1541 LG	464
CD 1541 SW	464
CD 1541 WW	464
CD 1700	231
CD 1700 BR	231
CD 1700 GB, ..PT	231
CD 1700 GR	231
CD 1700 LG	231
CD 1700 P	233
CD 1700 P BR	233
CD 1700 P GB, ..PT	233
CD 1700 P GR	233
CD 1700 P LG	233
CD 1700 P SW	233
CD 1700 P WW	233
CD 1700 SW	231
CD 1700 WW	231
CD 1701	235
CD 1701 BR	235
CD 1701 GB, ..PT	235
CD 1701 GR	235
CD 1701 LG	235
CD 1701 P	237
CD 1701 P BR	237
CD 1701 P GB, ..PT	237
CD 1701 P GR	237
CD 1701 P LG	237
CD 1701 P SW	237

Ref.-no.	Page
CD 1701 P WW	237
CD 1701 SW	235
CD 1701 WW	235
CD 1702	239
CD 1702 BR	239
CD 1702 GB, ..PT	239
CD 1702 GR	239
CD 1702 LG	239
CD 1702 SW	239
CD 1702 WW	239
CD 17180	249
CD 17180 BR	249
CD 17180 GB, ..PT	249
CD 17180 GR	249
CD 17180 LG	249
CD 17180 SW	249
CD 17180 WU	251
CD 17180 WU BR	251
CD 17180 WU GB, ..PT	251
CD 17180 WU GR	251
CD 17180 WU LG	251
CD 17180 WU SW	251
CD 17180 WU WW	251
CD 17180 WW	249
CD 17181	255
CD 17181 BR	255
CD 17181 GB, ..PT	255
CD 17181 GR	255
CD 17181 LG	255
CD 17181 SW	255
CD 17181 WU	257
CD 17181 WU BR	257
CD 17181 WU GB, ..PT	257
CD 17181 WU GR	257
CD 17181 WU LG	257
CD 17181 WU SW	257
CD 17181 WU WW	257
CD 17181 WW	255
CD 17280	253
CD 17280 GB, ..PT	253
CD 17280 GR	253
CD 17280 LG	253
CD 17280 SW	253
CD 17280 WW	253
CD 17281	259
CD 17281 GB, ..PT	259
CD 17281 GR	259
CD 17281 LG	259
CD 17281 SW	259
CD 17281 WW	259
CD 1750 D SW	240
CD 1750 D WW	240
CD 1751 BT	243
CD 1751 BT BR	243
CD 1751 BT GB, ..PT	243
CD 1751 BT GR	243
CD 1751 BT LG	243
CD 1751 BT SW	243
CD 1751 BT WW	243
CD 1751 PBT	245
CD 1751 PBT BR	245
CD 1751 PBT GB, ..PT	245
CD 1751 PBT GR	245
CD 1751 PBT LG	245
CD 1751 PBT SW	245
CD 1751 PBT WW	245
CD 1790 D SW	264
CD 1790 D WW	264
CD 20 NA	467
CD 2178 GR	690
CD 2178 LG	690
CD 2178 ORTS GR	691
CD 2178 ORTS LG	691
CD 2178 ORTS SW	691
CD 2178 ORTS WW	691
CD 2178 SW	690
CD 2178 TS GR	691
CD 2178 TS LG	691
CD 2178 TS SW	691

Ref.-no.	Page
CD 2178 TS WW	691
CD 2178 WW	690
CD 3181	688
CD 3181 GR	688
CD 3181 LG	688
CD 3181 SW	688
CD 3181 WW	688
CD 3181-1	689
CD 3181-1 GR	689
CD 3181-1 LG	689
CD 3181-1 SW	689
CD 3181-1 WW	689
CD 3281	689
CD 3281 GR	689
CD 3281 LG	689
CD 3281 SW	689
CD 3281 WW	689
CD 3281-1	690
CD 3281-1 GR	690
CD 3281-1 LG	690
CD 3281-1 SW	690
CD 3281-1 WW	690
CD 4 AR	672
CD 401 TSA	672
CD 401 TSA GR	672
CD 401 TSA LG	672
CD 401 TSA SW	672
CD 401 TSA WW	672
CD 401 TSAP	672
CD 401 TSAP GR	672
CD 401 TSAP LG	672
CD 401 TSAP SW	672
CD 401 TSAP WW	672
CD 402 TSA	672
CD 402 TSA GR	672
CD 402 TSA LG	672
CD 402 TSA SW	672
CD 402 TSA WW	672
CD 402 TSAP	672
CD 402 TSAP GR	672
CD 402 TSAP LG	672
CD 402 TSAP SW	672
CD 402 TSAP WW	672
CD 403 TSA	672
CD 403 TSA GR	672
CD 403 TSA LG	672
CD 403 TSA SW	672
CD 403 TSA WW	672
CD 404 TSA	672
CD 404 TSA GR	672
CD 404 TSA LG	672
CD 404 TSA SW	672
CD 404 TSA WW	672
CD 404 TSAP 14	672
CD 404 TSAP 23	672
CD 404 TSAP GR 14	672
CD 404 TSAP GR 23	672
CD 404 TSAP LG 14	672
CD 404 TSAP LG 23	672
CD 404 TSAP SW 14	672
CD 404 TSAP SW 23	672
CD 404 TSAP WW 14	672
CD 404 TSAP WW 23	672
CD 409 T	675
CD 4093 TSA	675
CD 4093 TSA GR	675
CD 4093 TSA LG	675
CD 4093 TSA SW	675
CD 4093 TSA WW	675
CD 50 NA	665
CD 50 NA GR	665
CD 50 NA LG	665
CD 50 NA SW	665
CD 50 NA TX SW-L	665
CD 50 NA W	665
CD 50 NA WW	665
CD 501 TSA	665
CD 501 TSA GR	665
CD 501 TSA LG	665

Ref.-no.	Page
CD 501 TSA SW	665
CD 501 TSA WW	665
CD 502 TSA	665
CD 502 TSA GR	665
CD 502 TSA LG	665
CD 502 TSA SW	665
CD 502 TSA WW	665
CD 5024	479
CD 5024 WW	479
CD 503 TSA	665
CD 503 TSA GR	665
CD 503 TSA LG	665
CD 503 TSA SW	665
CD 503 TSA WW	665
CD 504 TSA	665
CD 504 TSA GR	665
CD 504 TSA LG	665
CD 504 TSA SW	665
CD 504 TSA WW	665
CD 5071 RF TSM	677
CD 5071 TSM	663
CD 5072 RF TSM	677
CD 5072 TSM	663
CD 5073 RF TSM	677
CD 5073 TSM	663
CD 5074 RF TSM	677
CD 5074 TSM	663
CD 5091 TSEM	664
CD 5091 TSM	663
CD 5092 TSEM	664
CD 5092 TSM	663
CD 5093 TSEM	664
CD 5093 TSM	663
CD 5094 TSEM	664
CD 5094 TSM	663
CD 511 N BR	471
CD 511 N GB, ..PT	471
CD 511 N GR	471
CD 511 N LG	471
CD 511 N SW	471
CD 511 N WW	471
CD 5120 BF	25
CD 5120 BF BB	25
CD 5120 BF BR	25
CD 5120 BF GR	25
CD 5120 BF LG	25
CD 5120 BF PG	25
CD 5120 BF SW	25
CD 5120 BF WW	25
CD 5120 BFKI	25
CD 5120 BFKI WW	25
CD 5121 BF	24
CD 5121 BF BB	24
CD 5121 BF BR	24
CD 5121 BF GN	24
CD 5121 BF GR	24
CD 5121 BF LG	24
CD 5121 BF O	24
CD 5121 BF PG	24
CD 5121 BF SW	24
CD 5121 BF WW	24
CD 5178 TSEM	664
CD 5178 TSM	664
CD 5192 KRM TS D	664
CD 5194 KRM TS D	664
CD 520-45 WW	467
CD 5201 HYG	319
CD 5201 HYG GR	319
CD 5201 HYG LG	319
CD 5201 HYG WW	319
CD 521 NAUF WW	467
CD 521-15	471
CD 521-15 WW	471
CD 521-20	472
CD 521-20 WW	472
CD 5212 TSM	288
CD 5224 TSM	288
CD 523	498
CD 523 NA	498

Ref.-no.	Page
CD 523 NA WW	498
CD 523 WW	498
CD 5236 TSM	288
CD 5248 TSM	288
CD 525 BR	463
CD 525 GB, ..PT	463
CD 525 GR	463
CD 525 LG	463
CD 525 SW	463
CD 525 WW	463
CD 528 BR	463
CD 528 GB, ..PT	463
CD 528 GR	463
CD 528 LG	463
CD 528 SW	463
CD 528 WW	463
CD 537 WW	488
CD 54 NA	27
CD 5520.30	468
CD 5520.30 WW	468
CD 5530 FIB	468
CD 5530 FIB WW	468
CD 554 KL WW	27
CD 554 SLKL WW	27
CD 5544.03 V	472
CD 5544.03 V WW	472
CD 561 B WW	488
CD 561 SAT BR	482
CD 561 SAT GB, ..PT	482
CD 561 SAT GR	482
CD 561 SAT LG	482
CD 561 SAT SW	482
CD 561 SAT WW	482
CD 561 Z5 WW	489
CD 562 BR	482
CD 562 GB, ..PT	482
CD 562 GR	482
CD 562 LG	482
CD 562 SW	482
CD 562 WW	482
CD 564 WW	488
CD 565-2 WW	487
CD 567 S WW	483
CD 567-G3	118
CD 567-G3 WW	118
CD 568 WW	482
CD 568-1 WW	482
CD 569 T BR	74
CD 569 T GB, ..PT	74
CD 569 T GR	74
CD 569 T LG	74
CD 569 T SW	74
CD 569 T WW	74
CD 569 TNA WW	486
CD 569-1 NAUA BR	484
CD 569-1 NAUA GB	484
CD 569-1 NAUA GR	484
CD 569-1 NAUA LG	484
CD 569-1 NAUA PT	484
CD 569-1 NAUA SW	484
CD 569-1 NAUA WW	484
CD 569-1 UA BR	484
CD 569-1 UA GB, ..PT	484
CD 569-1 UA GR	484
CD 569-1 UA LG	484
CD 569-1 UA SW	484
CD 569-1 UA WW	486
CD 569-2 AT WW	487
CD 569-2 NAUA BR	485
CD 569-2 NAUA GB	485
CD 569-2 NAUA GR	485
CD 569-2 NAUA LG	485
CD 569-2 NAUA PT	485
CD 569-2 NAUA SW	485
CD 569-2 NAUA WW	485
CD 569-2 UA BR	485
CD 569-2 UA GB, ..PT	485
CD 569-2 UA GR	485

Ref.-no.	Page
CD 569-2 UA LG	485
CD 569-2 UA SW	485
CD 569-2 UA WW	485
CD 569-2 WE WW	487
CD 581 A BR	499
CD 581 A GR	499
CD 581 A W	499
CD 581 A WW	499
CD 581 BR	494
CD 581 GB, ..PT	495
CD 581 GL BL	461
CD 581 GL GE	461
CD 581 GL RT	461
CD 581 GR	494
CD 581 K GN	497
CD 581 K GR	497
CD 581 K LG	497
CD 581 K O	497
CD 581 K W	497
CD 581 K WW	497
CD 581 LG	494
CD 581 SW	494
CD 581 W	494
CD 581 WU BR	496
CD 581 WU GN	496
CD 581 WU GR	496
CD 581 WU LG	496
CD 581 WU O	496
CD 581 WU RT	496
CD 581 WU W	495
CD 581 WU WW	495
CD 581 WW	494
CD 582 A BR	499
CD 582 A GR	499
CD 582 A W	499
CD 582 A WW	499
CD 582 BR	494
CD 582 GB, ..PT	495
CD 582 GR	494
CD 582 K GN	497
CD 582 K GR	497
CD 582 K LG	497
CD 582 K O	497
CD 582 K W	497
CD 582 K WW	497
CD 582 LG	494
CD 582 SW	494
CD 582 W	494
CD 582 WU BR	496
CD 582 WU GN	496
CD 582 WU GR	496
CD 582 WU LG	496
CD 582 WU O	496
CD 582 WU RT	496
CD 582 WU W	495
CD 582 WU WW	495
CD 582 WW	494
CD 583 A BR	499
CD 583 A GR	499
CD 583 A W	499
CD 583 A WW	499
CD 583 BR	494
CD 583 GB, ..PT	495
CD 583 GR	494
CD 583 K GN	497
CD 583 K GR	497
CD 583 K LG	497
CD 583 K O	497
CD 583 K W	497
CD 583 K WW	497
CD 583 LG	494
CD 583 SW	494
CD 583 W	494
CD 583 WU BR	496
CD 583 WU GN	496
CD 583 WU GR	496
CD 583 WU LG	496
CD 583 WU O	496
CD 583 WU RT	496

Ref.-no.	Page
CD 583 WU W	495
CD 583 WU WW	495
CD 583 WW	494
CD 584 BR	494
CD 584 GB, ..PT	495
CD 584 GR	494
CD 584 LG	494
CD 584 SW	494
CD 584 W	494
CD 584 WU BR	496
CD 584 WU GN	496
CD 584 WU GR	496
CD 584 WU LG	496
CD 584 WU O	496
CD 584 WU W	495
CD 584 WU WW	495
CD 584 WW	494
CD 585 BR	494
CD 585 GB, ..PT	495
CD 585 GR	494
CD 585 LG	494
CD 585 SW	494
CD 585 W	494
CD 585 WU BR	496
CD 585 WU GN	496
CD 585 WU GR	496
CD 585 WU LG	496
CD 585 WU O	496
CD 585 WU W	495
CD 585 WU WW	495
CD 585 WW	494
CD 590	456
CD 590 A BR	483
CD 590 A GB, ..PT	483
CD 590 A GR	483
CD 590 A LG	483
CD 590 A SW	483
CD 590 A WW	483
CD 590 BF	456
CD 590 BF BR	456
CD 590 BF GR	456
CD 590 BF LG	456
CD 590 BF WW	456
CD 590 BFK	459
CD 590 BFK WW	459
CD 590 BFKL	27
CD 590 BFKL BR	27
CD 590 BFKL GN	27
CD 590 BFKL GR	27
CD 590 BFKL LG	27
CD 590 BFKL O	27
CD 590 BFKL RT	27
CD 590 BFKL WW	27
CD 590 BFKLSL	28
CD 590 BFKLSL BR	28
CD 590 BFKLSL GN	28
CD 590 BFKLSL GR	28
CD 590 BFKLSL LG	28
CD 590 BFKLSL O	28
CD 590 BFKLSL RT	28
CD 590 BFKLSL WW	28
CD 590 BFL	458
CD 590 BFL WW	458
CD 590 BFNAKL	27
CD 590 BFNAKL BR	27
CD 590 BFNAKL GN	27
CD 590 BFNAKL GR	27
CD 590 BFNAKL LG	27
CD 590 BFNAKL O	27
CD 590 BFNAKL RT	27
CD 590 BFNAKL WW	27
CD 590 BFT	460
CD 590 BFT WW	460
CD 590 BR	456
CD 590 CARD GB-L	107
CD 590 CARD PT-L	107
CD 590 CARD WW	107
CD 590 GB, ..PT	456
CD 590 GR	456

Ref.-no.	Page
CD 590 K	459
CD 590 K BR	459
CD 590 K GB, ..PT	459
CD 590 K GR	459
CD 590 K LG	459
CD 590 K SW	459
CD 590 K WW	459
CD 590 KL	26
CD 590 KL BR	26
CD 590 KL GB	26
CD 590 KL GN	26
CD 590 KL GR	26
CD 590 KL LAN	121
CD 590 KL LAN BR	121
CD 590 KL LAN GB	121
CD 590 KL LAN GR	121
CD 590 KL LAN LG	121
CD 590 KL LAN PT	121
CD 590 KL LAN SW	121
CD 590 KL LAN WW	121
CD 590 KL LG	26
CD 590 KL O	26
CD 590 KL PT	26
CD 590 KL SOC	120
CD 590 KL SOC BR	120
CD 590 KL SOC GB	120
CD 590 KL SOC GR	120
CD 590 KL SOC LG	120
CD 590 KL SOC PT	120
CD 590 KL SOC SW	120
CD 590 KL SOC WW	120
CD 590 KL SW	26
CD 590 KL USB	75
CD 590 KL USB BR	75
CD 590 KL USB GB	75
CD 590 KL USB GR	75
CD 590 KL USB LG	75
CD 590 KL USB PT	75
CD 590 KL USB SW	75
CD 590 KL USB WW	75
CD 590 KL WW	26
CD 590 KO	457
CD 590 KO BR	457
CD 590 KO GB, ..PT	457
CD 590 KO GR	457
CD 590 KO LG	457
CD 590 KO SW	457
CD 590 KO WW	457
CD 590 KO5	457
CD 590 KO5 BR	457
CD 590 KO5 GB, ..PT	457
CD 590 KO5 GR	457
CD 590 KO5 LG	457
CD 590 KO5 SW	457
CD 590 KO5 WW	457
CD 590 KO5K	459
CD 590 KO5K BR	459
CD 590 KO5K GB, ..PT	459
CD 590 KO5K GR	459
CD 590 KO5K LG	459
CD 590 KO5K SW	459
CD 590 KO5K WW	459
CD 590 KO5L	459
CD 590 KO5L BR	459
CD 590 KO5L GB, ..PT	459
CD 590 KO5L GR	459
CD 590 KO5L LG	459
CD 590 KO5L SW	459
CD 590 KO5L WW	459
CD 590 KO5T	460
CD 590 KO5T BR	460
CD 590 KO5T GB, ..PT	460
CD 590 KO5T GR	460
CD 590 KO5T LG	460
CD 590 KO5T SW	460
CD 590 KO5T WW	460
CD 590 KOBF	457
CD 590 KOBF BR	457
CD 590 KOBF GR	457

Ref.-no.	Page
CD 590 KOBF LG	457
CD 590 KOBF WW	457
CD 590 L	458
CD 590 L BR	458
CD 590 L GB, ..PT	458
CD 590 L GR	458
CD 590 L LG	458
CD 590 L SW	458
CD 590 L WW	458
CD 590 LG	456
CD 590 NA	456
CD 590 NA BR	456
CD 590 NA GR	456
CD 590 NA LG	456
CD 590 NA SW	456
CD 590 NA WW	456
CD 590 NAA WW	483
CD 590 NABF	456
CD 590 NABF WW	456
CD 590 NAKO	458
CD 590 NAKO WW	458
CD 590 NAKO5	457
CD 590 NAKO5 BR	457
CD 590 NAKO5 GR	457
CD 590 NAKO5 LG	457
CD 590 NAKO5 SW	457
CD 590 NAKO5 WW	457
CD 590 SW	456
CD 590 T	460
CD 590 T BR	460
CD 590 T GB, ..PT	460
CD 590 T GR	460
CD 590 T LG	460
CD 590 T SW	460
CD 590 T WW	460
CD 590 WW	456
CD 590 Z WW	26
CD 590 ZA WW	489
CD 594-0 BR	488
CD 594-0 GB, ..PT	488
CD 594-0 GR	488
CD 594-0 LG	488
CD 594-0 SW	488
CD 594-0 WW	484
CD 594-8 WW	484
CD 594-9 WW	484
CD 595	461
CD 595 BF	461
CD 595 BF BR	461
CD 595 BF GR	461
CD 595 BF LG	461
CD 595 BF WW	461
CD 595 BR	461
CD 595 GB	461
CD 595 GR	461
CD 595 KO5	462
CD 595 KO5 BR	462
CD 595 KO5 GB, ..PT	462
CD 595 KO5 GR	462
CD 595 KO5 LG	462
CD 595 KO5 SW	462
CD 595 KO5 WW	462
CD 595 KO5BF	462
CD 595 KO5BF BR	462
CD 595 KO5BF GR	462
CD 595 KO5BF LG	462
CD 595 KO5BF WW	462
CD 595 LG	461
CD 595 NA	462
CD 595 NA BR	462
CD 595 NA GR	462
CD 595 NA LG	462
CD 595 NA SW	462
CD 595 NA WW	462
CD 595 P	463
CD 595 P BR	463
CD 595 P GB, ..PT	463
CD 595 P GR	463
CD 595 P LG	463

Ref.-no.	Page
CD 595 P SW	463
CD 595 P WW	463
CD 595 PBF	463
CD 595 PBF BR	463
CD 595 PBF GR	463
CD 595 PBF LG	463
CD 595 PBF WW	463
CD 595 PT	461
CD 595 SW	461
CD 595 WW	461
CD 90 HP	460
CD 90 MHP	460
CD 90 NA	27
CD 95 HP	463
CD 95 MHP	463
CD 95 NA	462
CD AT 581 Z WW	296
CDP 581 LG	501
CDP 581 SW	501
CDP 581 WW	501
CDP 582 LG	501
CDP 582 SW	501
CDP 582 WW	501
CDP 583 LG	501
CDP 583 SW	501
CDP 583 WW	501
CDP 584 LG	501
CDP 584 SW	501
CDP 584 WW	501
CDP 585 LG	501
CDP 585 SW	501
CDP 585 WW	501
CDP 81 BLM	501
CDP 81 ES	501
CDP 81 GCR	501
CDP 81 GE	501
CDP 81 GGO	501
CDP 81 GNM	501
CDP 81 GT	501
CDP 81 LG	501
CDP 81 LGN	501
CDP 81 RTM	501
CDP 81 SWM	501
CDP 82 BLM	501
CDP 82 ES	501
CDP 82 GCR	501
CDP 82 GE	501
CDP 82 GGO	501
CDP 82 GNM	501
CDP 82 GT	501
CDP 82 LG	501
CDP 82 LGN	501
CDP 82 RTM	501
CDP 82 SWM	501
CIB 63	46
CO2 A 2178	692
CO2 A 2178 AL	692
CO2 A 2178 BF ANM	692
CO2 A 2178 BF SW	692
CO2 A 2178 BF SWM	692
CO2 A 2178 BF WW	692
CO2 A 2178 BF WWM	692
CO2 A 2178 CH	692
CO2 A 2178 MO	692
CO2 A 2178 SW	692
CO2 A 2178 WW	692
CO2 AL 2178	692
CO2 AL 2178 AN	692
CO2 AL 2178 D	692
CO2 CD 2178	692
CO2 CD 2178 GR	692
CO2 CD 2178 LG	692
CO2 CD 2178 SW	692
CO2 CD 2178 WW	692
CO2 ES 2178	692
CO2 GCR 2178	692
CO2 LS 2178	692
CO2 LS 2178 LG	692
CO2 LS 2178 SW	692

Ref.-no.	Page
CO2 LS 2178 SWM	692
CO2 LS 2178 WW	692
CO2 LS 2178 WWM	692
CO2 ME 2178 AT	692
CO2 ME 2178 C	692
CONFIG RFID	109
CXLR-D	46
CXLR-S	46
D SNT 105	273
DAB A BT SW	84
DAB A BT WW	84
DAB A BT-DISP SW	85
DAB A BT-DISP WW	85
DAB A SW	79
DAB A WW	79
DAB A-DISP SW	80
DAB A-DISP WW	80
DAB A1 BT WW	86
DAB A1 WW	81
DAB A2 BT WW	87
DAB A2 WW	82
DAB AL1	81
DAB AL1 BT	86
DAB AL2	82
DAB AL2 BT	87
DAB CD BT SW	84
DAB CD BT WW	84
DAB CD BT-DISP SW	85
DAB CD BT-DISP WW	85
DAB CD SW	79
DAB CD WW	79
DAB CD-DISP SW	80
DAB CD-DISP WW	80
DAB CD1 BT WW	86
DAB CD1 WW	81
DAB CD2 BT WW	87
DAB CD2 WW	82
DAB ES1	81
DAB ES1 BT	86
DAB ES2	82
DAB ES2 BT	87
DAB LS BT SW	84
DAB LS BT WW	84
DAB LS BT-DISP SW	85
DAB LS BT-DISP WW	85
DAB LS SW	79
DAB LS WW	79
DAB LS-DISP SW	80
DAB LS-DISP WW	80
DAB LS1 BT SW	86
DAB LS1 BT WW	86
DAB LS1 SW	81
DAB LS1 WW	81
DAB LS2 BT SW	87
DAB LS2 BT WW	87
DAB LS2 SW	82
DAB LS2 WW	82
DS 4092 TS	686
DWPM 17360 AL	260
DWPM 17360 WW	260
DWPM FB IR I	262
DWPM FB IR K	262
DWPM K 360 AL	261
DWPM K 360 WW	261
E 14 LED GN	18
E 14 LED RT	18
E 14 LED W	18
EBG 24	699
EBG 2424	697
EDA 302 F	43
EDU 04 F	40
ENET-S-SC 5 SW	200
ENET-SERVER	198
ENO A 42 F	209
ENO A 590	208
ENO A 590 AL	208
ENO A 590 ANM	208
ENO A 590 P	208
ENO A 590 P AL	208

Ref.-no.	Page
ENO A 590 P ANM	208
ENO A 590 P SW	208
ENO A 590 P SWM	208
ENO A 590 P WW	208
ENO A 590 P WWM	208
ENO A 590 SW	208
ENO A 590 SWM	208
ENO A 590 WW	208
ENO A 590 WWM	208
ENO A 590-01	208
ENO A 590-01 AL	208
ENO A 590-01 ANM	208
ENO A 590-01 SW	208
ENO A 590-01 SWM	208
ENO A 590-01 WW	208
ENO A 590-01 WWM	208
ENO A 595	208
ENO A 595 AL	208
ENO A 595 ANM	208
ENO A 595 MP	209
ENO A 595 MP AL	209
ENO A 595 MP ANM	209
ENO A 595 MP SW	209
ENO A 595 MP SWM	209
ENO A 595 MP WW	209
ENO A 595 MP WWM	209
ENO A 595 P01	209
ENO A 595 P01 AL	209
ENO A 595 P01 ANM	209
ENO A 595 P01 SW	209
ENO A 595 P01 SWM	209
ENO A 595 P01 WW	209
ENO A 595 P01 WWM	209
ENO A 595 SW	208
ENO A 595 SWM	208
ENO A 595 WW	208
ENO A 595 WWM	208
ENO A 595-01	209
ENO A 595-01 AL	209
ENO A 595-01 ANM	209
ENO A 595-01 SW	209
ENO A 595-01 SWM	209
ENO A 595-01 WW	209
ENO A 595-01 WWM	209
ENO AL 2990 P-L	210
ENO AL 2990-01-L	210
ENO AL 2990-L	210
ENO AL 2995 MP-L	211
ENO AL 2995 P01-L	211
ENO AL 2995-01-L	211
ENO AL 2995-L	210
ENO ES 2990 P-L	210
ENO ES 2990-01-L	210
ENO ES 2990-L	210
ENO ES 2995 MP-L	211
ENO ES 2995 P01-L	211
ENO ES 2995-01-L	211
ENO ES 2995-L	210
ENO LS 42 F	211
ENO LS 990	210
ENO LS 990 LG	210
ENO LS 990 P	210
ENO LS 990 P LG	210
ENO LS 990 P SW	210
ENO LS 990 P SWM	210
ENO LS 990 P WW	210
ENO LS 990 P WWM	210
ENO LS 990 SW	210
ENO LS 990 SWM	210
ENO LS 990 WW	210
ENO LS 990 WWM	210
ENO LS 990-01	210
ENO LS 990-01 LG	210
ENO LS 990-01 SW	210
ENO LS 990-01 SWM	210
ENO LS 990-01 WW	210
ENO LS 990-01 WWM	210
ENO LS 995	210
ENO LS 995 LG	210

Ref.-no.	Page
ENO LS 995 MP	211
ENO LS 995 MP LG	211
ENO LS 995 MP SW	211
ENO LS 995 MP SWM	211
ENO LS 995 MP WW	211
ENO LS 995 MP WWM	211
ENO LS 995 P01	211
ENO LS 995 P01 LG	211
ENO LS 995 P01 SW	211
ENO LS 995 P01 SWM	211
ENO LS 995 P01 WW	211
ENO LS 995 P01 WWM	211
ENO LS 995 SW	210
ENO LS 995 SWM	210
ENO LS 995 WW	210
ENO LS 995 WWM	210
ENO LS 995-01	211
ENO LS 995-01 LG	211
ENO LS 995-01 SW	211
ENO LS 995-01 SWM	211
ENO LS 995-01 WW	211
ENO LS 995-01 WWM	211
ES 10.480 ET	560
ES 101	684
ES 101 KO5	684
ES 101 KO5P	684
ES 101 P	684
ES 102	685
ES 102 KO5	685
ES 102 KO5P	685
ES 102 P	685
ES 1060 ET	560
ES 12-0 K 1	622
ES 12-0 KO K 1	622
ES 12-0 KO R 1	620
ES 12-0 R 1	620
ES 12-20 K 1	622
ES 12-20 R 1	620
ES 12-200 K 1	622
ES 12-200 R 1	620
ES 12-25 K 1	623
ES 12-25 R 1	621
ES 12-250 K 1	623
ES 12-250 R 1	621
ES 12-5 K 1	623
ES 12-5 KO K 1	623
ES 12-5 KO R 1	621
ES 12-5 P K 1	623
ES 12-5 P R 1	621
ES 12-5 R 1	621
ES 1520	527
ES 1520 F-15 CA-L	71
ES 1520 F-18 A-L	69
ES 1520 F-18 C-L	70
ES 1520 KI	527
ES 1520 KIKL	538
ES 1520 KINA	530
ES 1520 KL	537
ES 1520 NA	530
ES 1520 NAKL	540
ES 1520 NAKLSL	541
ES 1520-13 SEV	542
ES 1520-15 CA-L	68
ES 1520-18 A-L	66
ES 1520-18 C-L	67
ES 1520-O LNW	132
ES 1521	528
ES 1521 F PL-1	543
ES 1521 FKI PL-1	543
ES 1521 FKL PL1L	543
ES 1521 KI	528
ES 1521 KIKL	539
ES 1521 KL	538
ES 1539-O LNW	133
ES 1539-OO LNW	133
ES 1700	231
ES 1700 P	233
ES 1701	235
ES 1701 P	237

Ref.-no.	Page
ES 1702	239
ES 17180	249
ES 17180 WU	251
ES 17181	255
ES 17181 WU	257
ES 17280	253
ES 17281	259
ES 1751 BT	243
ES 1751 PBT	245
ES 1940	551
ES 1940 KO5	687
ES 1941	526
ES 1969 USB	74
ES 1969-1 NA WE	573
ES 1969-1 WE	571
ES 1969-15 NA WE	576
ES 1969-15 WE	574
ES 1969-2 AT	576
ES 1969-2 NA AT	577
ES 1969-2 NA WE	573
ES 1969-2 WE	571
ES 1969-25 NA WE	576
ES 1969-25 WE	574
ES 2178	691
ES 2178 ORTS	691
ES 2178 TS	691
ES 2401 TSA	673
ES 2401 TSAP	673
ES 2402 TSA	673
ES 2402 TSAP	673
ES 2403 TSA	673
ES 2404 TSA	673
ES 2404 TSAP 14	674
ES 2404 TSAP 23	674
ES 2501 TSA	668
ES 2502 TSA	668
ES 2503 TSA	668
ES 2504 TSA	668
ES 2520-45	531
ES 2521 IN PL	547
ES 2521-15	544
ES 2521-20	544
ES 2539 LED LW-12	136
ES 2539 LEDWB	135
ES 2539 N71 RGB	135
ES 2539 N71LED B	134
ES 2539 N71LED W	134
ES 2539 RGB	136
ES 2539-2 LED RG	135
ES 2567-G3	118
ES 2581 A-L	590
ES 2582 A-L	590
ES 2583 A-L	102
ES 2925	526
ES 2928	525
ES 2937	581
ES 2961 Z5-L	582
ES 2962-1	564
ES 2962-2	564
ES 2964	581
ES 2965-2	579
ES 2967 S	567
ES 2969 T	578
ES 2969-1 NAUA	569
ES 2969-1 UUA	568
ES 2969-2 NAUA	570
ES 2969-2 UUA	570
ES 2981	588
ES 2982	588
ES 2983	102
ES 2983 WW	102
ES 2984	588
ES 2985	588
ES 2990	516
ES 2990 A	568
ES 2990 CARD	107
ES 2990 K	519
ES 2990 KL	29
ES 2990 KL LAN	121

Ref.-no.	Page
ES 2990 KL SOC	120
ES 2990 KL USB	75
ES 2990 KO2	517
ES 2990 KO5	517
ES 2990 KO5 K	519
ES 2990 KO5 KP	521
ES 2990 KO5 L	519
ES 2990 KO5 LP	521
ES 2990 KO5 T	520
ES 2990 KO5 TP	521
ES 2990 KP	521
ES 2990 L	518
ES 2990 LP	521
ES 2990 NA	517
ES 2990 NAKL	29
ES 2990 NAKO5	518
ES 2990 SAT	565
ES 2990 T	520
ES 2990 TP	521
ES 2990 TV	565
ES 2993	101
ES 2993 HP	101
ES 2993 KO5	101
ES 2993 KO5 WW	101
ES 2993 WW	101
ES 2994 B	579
ES 2995	523
ES 2995 KO5	523
ES 2995 P	524
ES 2995 PP	524
ES 3181	688
ES 3181-1	689
ES 3281	689
ES 3281-1	690
ES 3521-5 CN PL	546
ES 4093 TSA	676
ES 50 NA-L	669
ES 5020 KI-L	541
ES 5022 KI-L	541
ES 5201 HYG	319
ES 569-30 BF PL-L	39
ES 993	525
ES CARD RFID	109
ES CU KO5 D	111
ES CU KO5 M	113
ES CU KO5 M 230	115
ES CU KO5 M 24	114
ES RU KO5 D	110
ES RU KO5 M	112
ESD 2981	594
ESD 2982	594
ESD 2983	594
ESD 2984-L	594
ESD 2985-L	594
ESU 230-2	108
FCA 2 REGHE	695
FD 981 LG	596
FD 981 SW	596
FD 981 W	596
FD 981 WW	596
FD 981 Z	597
FD 982 LG	596
FD 982 SW	596
FD 982 W	596
FD 982 WW	596
FD 983 LG	596
FD 983 SW	596
FD 983 W	596
FD 983 WW	596
FDAL 2981	596
FDAL 2981 AN	597
FDAL 2981 D	597
FDAL 2982	596
FDAL 2982 AN	597
FDAL 2982 D	597
FDAL 2983	596
FDAL 2983 AN	597
FDAL 2983 D	597
FDES 2981	597

Ref.-no.	Page
FDSE 2982	597
FDSE 2983	597
FDME 2981 AT	597
FDME 2981 C	597
FDME 2982 AT	597
FDME 2982 C	597
FDME 2983 AT	597
FDME 2983 C	597
FF 7.8	229
FM 4001 M	170
FM 4002 M	170
FM 4003 M	170
FM 4004 M	170
FM A 1700 AL	172
FM A 1700 BF ANM	172
FM A 1700 BF SW	172
FM A 1700 BF SWM	172
FM A 1700 BF WW	172
FM A 1700 BF WWM	172
FM A 1700 BFP ANM	173
FM A 1700 BFP SW	173
FM A 1700 BFP SWM	173
FM A 1700 BFP WW	173
FM A 1700 BFP WWM	173
FM A 1700 CH	172
FM A 1700 MO	172
FM A 1700 P AL	173
FM A 1700 P CH	173
FM A 1700 P MO	173
FM A 1700 P SW	173
FM A 1700 P WW	173
FM A 1700 SW	172
FM A 1700 WW	172
FM A 1701 AL	175
FM A 1701 BF ANM	175
FM A 1701 BF SW	175
FM A 1701 BF SWM	175
FM A 1701 BF WW	175
FM A 1701 BF WWM	175
FM A 1701 BFP ANM	176
FM A 1701 BFP SW	176
FM A 1701 BFP SWM	176
FM A 1701 BFP WW	176
FM A 1701 BFP WWM	176
FM A 1701 CH	175
FM A 1701 MO	175
FM A 1701 P AL	176
FM A 1701 P CH	176
FM A 1701 P MO	176
FM A 1701 P SW	176
FM A 1701 P WW	176
FM A 1701 SW	175
FM A 1701 WW	175
FM A 5001 M	167
FM A 5002 M	167
FM A 5003 M	167
FM A 5004 M	167
FM AL 1700	172
FM AL 1700 AN	172
FM AL 1700 D	172
FM AL 1700 P	173
FM AL 1700 P AN	173
FM AL 1700 P D	173
FM AL 1701	175
FM AL 1701 AN	175
FM AL 1701 D	175
FM AL 1701 P	176
FM AL 1701 P AN	176
FM AL 1701 P D	176
FM ANT	188
FM AS 10 UP	181
FM AS 16 REG	189
FM AS 1700	172
FM AS 1700 P	173
FM AS 1700 P WW	173
FM AS 1700 WW	172
FM AS 1701	175
FM AS 1701 P	176
FM AS 1701 P WW	176

Ref.-no.	Page
FM AS 1701 WW	175
FM AS 26 UP	183
FM AS 816 REG	190
FM AS PF 10 UP	182
FM CD 1700	172
FM CD 1700 BR	172
FM CD 1700 GB	172
FM CD 1700 GR	172
FM CD 1700 LG	172
FM CD 1700 P	173
FM CD 1700 P BR	173
FM CD 1700 P GB	173
FM CD 1700 P GR	173
FM CD 1700 P LG	173
FM CD 1700 P PT	173
FM CD 1700 P SW	173
FM CD 1700 P WW	173
FM CD 1700 PT	172
FM CD 1700 SW	172
FM CD 1700 WW	172
FM CD 1701	175
FM CD 1701 BR	175
FM CD 1701 GB	175
FM CD 1701 GR	175
FM CD 1701 LG	175
FM CD 1701 P	176
FM CD 1701 P BR	176
FM CD 1701 P GB	176
FM CD 1701 P GR	176
FM CD 1701 P LG	176
FM CD 1701 P PT	176
FM CD 1701 P SW	176
FM CD 1701 P WW	176
FM CD 1701 PT	175
FM CD 1701 SW	175
FM CD 1701 WW	175
FM CD 5001 M	168
FM CD 5002 M	168
FM CD 5003 M	168
FM CD 5004 M	168
FM DT	199
FM DW 360 WW	178
FM ES 1700	172
FM ES 1700 P	173
FM ES 1701	175
FM ES 1701 P	176
FM ES 3680 UP	179
FM ES 36804 REG	180
FM FK 32 REG	188
FM FS 1 S	177
FM GCR 1700	172
FM GCR 1700 P	173
FM GCR 1701	175
FM GCR 1701 P	176
FM GO 1700	172
FM GO 1700 P	173
FM GO 1701	175
FM GO 1701 P	176
FM HS 1 T	164
FM HS 2	164
FM HS 4	165
FM J 50700 REG	192
FM J 50700 UP	184
FM LS 1700	172
FM LS 1700 LG	172
FM LS 1700 P	173
FM LS 1700 P LG	173
FM LS 1700 P SW	173
FM LS 1700 P SWM	173
FM LS 1700 P WW	173
FM LS 1700 P WWM	173
FM LS 1700 SW	172
FM LS 1700 SWM	172
FM LS 1700 WW	172
FM LS 1700 WWM	172
FM LS 1701	175
FM LS 1701 LG	175
FM LS 1701 P	176
FM LS 1701 P LG	176

Ref.-no.	Page
FM LS 1701 P SW	176
FM LS 1701 P SWM	176
FM LS 1701 P WW	176
FM LS 1701 P WWM	176
FM LS 1701 SW	175
FM LS 1701 SWM	175
FM LS 1701 WW	175
FM LS 1701 WWM	175
FM LS 5001 M	169
FM LS 5002 M	169
FM LS 5003 M	169
FM LS 5004 M	169
FM ME 1700 AT	172
FM ME 1700 C	172
FM ME 1700 P AT	173
FM ME 1700 P C	173
FM ME 1701 AT	175
FM ME 1701 C	175
FM ME 1701 P AT	176
FM ME 1701 P C	176
FM ST 50 UP	186
FM STD 8 UP	187
FM UD 20250 UP	185
FM UD 420250 REG	196
FM UD 5500 REG	194
FM US 2 UP	166
FM WLAN ANT	199
FM-EBG	187
FOHS A 550 595 WW	203
FOHS LS 995 WW	203
FRWM 200 SW	91
FRWM 200 WW	91
FRWM-AR	91
FTR A 231	310
FTR A 231 AL	310
FTR A 231 ANM	310
FTR A 231 CH	310
FTR A 231 MO	310
FTR A 231 SW	310
FTR A 231 WW	310
FTR AL 231	311
FTR AL 231 AN	311
FTR AL 231 D	311
FTR CD 231	310
FTR CD 231 BR	310
FTR CD 231 GB	310
FTR CD 231 GR	310
FTR CD 231 LG	310
FTR CD 231 PT	310
FTR CD 231 SW	310
FTR CD 231 WW	310
FTR ES 231	311
FTR GCR 231	311
FTR GO 231	311
FTR LS 231	311
FTR LS 231 GGO	311
FTR LS 231 LG	311
FTR LS 231 SW	311
FTR LS 231 WW	311
FTR ME 231 AT	311
FTR ME 231 C	311
FTR SL 231 GB	311
FTR SL 231 SW	311
FTR SL 231 WW	311
FUS 4410 BR	696
FUS 4410 WW	696
GCR 101	684
GCR 101 KO5	684
GCR 101 KO5P	684
GCR 101 P	684
GCR 102	685
GCR 102 KO5	685
GCR 102 KO5P	685
GCR 102 P	685
GCR 12-0 E 22	624
GCR 12-0 KO E 22	624
GCR 12-20 E 22	624
GCR 12-200 E 22	624
GCR 12-25 E 22	625

Ref.-no.	Page
GCR 12-250 E 22	625
GCR 12-5 E 22	625
GCR 12-5 KO E 22	625
GCR 12-5 P E 22	625
GCR 1520 KI	527
GCR 1520 KIKL	538
GCR 1520 KL	537
GCR 1520 NAKL	540
GCR 1521 FKIPL-1	543
GCR 1521 KI	528
GCR 1700	231
GCR 1700 P	233
GCR 1701	235
GCR 1701 P	237
GCR 1751 BT	243
GCR 1751 PBT	245
GCR 1940	551
GCR 1940 KO5	687
GCR 1941	526
GCR 2178	691
GCR 2178 ORTS	691
GCR 2178 TS	691
GCR 2501 TSA	668
GCR 2502 TSA	668
GCR 2503 TSA	668
GCR 2504 TSA	668
GCR 2928	525
GCR 2962-1	564
GCR 2962-2	564
GCR 2969 T	578
GCR 2969-1 NAUA	569
GCR 2969-1 UA	568
GCR 2969-2 NAUA	570
GCR 2969-2 UA	570
GCR 2981	588
GCR 2982	588
GCR 2983	588
GCR 2984	588
GCR 2985	588
GCR 2990	516
GCR 2990 A	568
GCR 2990 K	519
GCR 2990 KL	29
GCR 2990 KO5	517
GCR 2990 KO5 K	519
GCR 2990 KO5 L	519
GCR 2990 KO5 T	520
GCR 2990 L	518
GCR 2990 SAT	565
GCR 2990 T	520
GCR 2990 TV	565
GCR 2994 B	579
GCR 2995	523
GCR 2995 KO5	523
GCR 2995 P	524
GCR 3521-5 CNPL	546
GCR 993	525
GCRD 2981	594
GCRD 2982	594
GCRD 2983	594
GDA 313 F	44
GEDU 10	41
GEDU 15	42
GI 2171 SW EINS	335
GO 101	684
GO 101 KO5	684
GO 101 KO5P	684
GO 101 P	684
GO 102	685
GO 102 KO5	685
GO 102 KO5P	685
GO 102 P	685
GO 1520	527
GO 1520 KI	527
GO 1520 KL	537
GO 1521	528
GO 1521 FKI PL-1	543
GO 1521 KI	528
GO 1521 KL	538

Ref.-no.	Page
GO 1700	231
GO 1700 P	233
GO 1701	235
GO 1701 P	237
GO 1751 BT	243
GO 1751 PBT	245
GO 1940	551
GO 1940 KO5	687
GO 1941	526
GO 2501 TSA	668
GO 2502 TSA	668
GO 2503 TSA	668
GO 2504 TSA	668
GO 2521 IN PL	547
GO 2928	525
GO 2962-1	564
GO 2962-2	564
GO 2969-1 UA	568
GO 2969-2 UA	570
GO 2981	589
GO 2982	589
GO 2983	589
GO 2984	589
GO 2985	589
GO 2990	516
GO 2990 A	568
GO 2990 KL	29
GO 2990 KO5	517
GO 2990 SAT	565
GO 2990 TV	565
GO 2994 B	579
GO 2995	523
GO 2995 KO5	523
GO 2995 P	524
GO 3521-5 CN PL	546
GO 993	525
HS 2 RF	679
HS 4 RF	679
IPR 300 SREG	694
IPS 300 SREG	694
IPS-L	694
JVP-HOTEL	129
JVP-L	701
JVP-P	701
JVP-SERVER-H2GB	700
JVP-V	701
K 501 EU	618
K 505 EU	618
K 505 EU 5	618
K 505 KO EU 5	618
K 506 EU	618
K 506 KO EU	618
K 507 EU	618
K 509 EU	618
K 509 VEU	619
K 531 EU	618
K 533 EU	618
K 535 EU	619
K 539 VEU	619
KM LED 230 U	277
KNX PM FB IR	687
LA 90	297
LC 1520 KI 32030	603
LC 1520 KI 32050	603
LC 1520 KI 32090	603
LC 1520 KI 32121	603
LC 1520 KI 32140	603
LC 1520 KI 32142	603
LC 1520 KI 4320A	603
LC 1520 KI 4320D	603
LC 1520 KI 4320F	603
LC 1520 KI 4320J	603
LC 1520 KI 4320K	603
LC 1520 KI 4320M	603
LC 1520 KI 4320R	603
LC 1520 KI 4320S	603
LC 1520 KI 4320T	603
LC 1520 KIKL 32030	604
LC 1520 KIKL 32050	604

Ref.-no.	Page
LC 1520 KIKL 32090	604
LC 1520 KIKL 32121	604
LC 1520 KIKL 32140	604
LC 1520 KIKL 32142	604
LC 1520 KIKL 4320A	604
LC 1520 KIKL 4320D	604
LC 1520 KIKL 4320F	604
LC 1520 KIKL 4320J	604
LC 1520 KIKL 4320K	604
LC 1520 KIKL 4320M	604
LC 1520 KIKL 4320R	604
LC 1520 KIKL 4320S	604
LC 1520 KIKL 4320T	604
LC 1520 NFKI 32030	604
LC 1520 NFKI 32050	604
LC 1520 NFKI 32090	604
LC 1520 NFKI 32121	604
LC 1520 NFKI 32140	604
LC 1520 NFKI 32142	604
LC 1520 NFKI 4320A	604
LC 1520 NFKI 4320D	604
LC 1520 NFKI 4320F	604
LC 1520 NFKI 4320J	604
LC 1520 NFKI 4320K	604
LC 1520 NFKI 4320M	604
LC 1520 NFKI 4320R	604
LC 1520 NFKI 4320S	604
LC 1520 NFKI 4320T	604
LC 1520-13-32030	607
LC 1520-13-32050	607
LC 1520-13-32090	607
LC 1520-13-32121	607
LC 1520-13-32140	607
LC 1520-13-32142	607
LC 1520-13-4320A	607
LC 1520-13-4320D	607
LC 1520-13-4320F	607
LC 1520-13-4320J	607
LC 1520-13-4320K	607
LC 1520-13-4320M	607
LC 1520-13-4320R	607
LC 1520-13-4320S	607
LC 1520-13-4320T	607
LC 1940 32030	607
LC 1940 32050	607
LC 1940 32090	607
LC 1940 32121	607
LC 1940 32140	607
LC 1940 32142	607
LC 1940 4320A	607
LC 1940 4320D	607
LC 1940 4320F	607
LC 1940 4320J	607
LC 1940 4320K	607
LC 1940 4320M	607
LC 1940 4320R	607
LC 1940 4320S	607
LC 1940 4320T	607
LC 2171 KO P 32030	605
LC 2171 KO P 32050	605
LC 2171 KO P 32090	605
LC 2171 KO P 32121	605
LC 2171 KO P 32140	605
LC 2171 KO P 32142	605
LC 2171 KO P 4320A	605
LC 2171 KO P 4320D	605
LC 2171 KO P 4320F	605
LC 2171 KO P 4320J	605
LC 2171 KO P 4320K	605
LC 2171 KO P 4320M	605
LC 2171 KO P 4320R	605
LC 2171 KO P 4320S	605
LC 2171 KO P 4320T	605
LC 2171-5 P 32030	606
LC 2171-5 P 32050	606
LC 2171-5 P 32090	606
LC 2171-5 P 32121	606
LC 2171-5 P 32140	606
LC 2171-5 P 32142	606

Ref.-no.	Page
LC 2171-5 P 4320A	606
LC 2171-5 P 4320D	606
LC 2171-5 P 4320F	606
LC 2171-5 P 4320J	606
LC 2171-5 P 4320K	606
LC 2171-5 P 4320M	606
LC 2171-5 P 4320R	606
LC 2171-5 P 4320S	606
LC 2171-5 P 4320T	606
LC 2521 P 32030	605
LC 2521 P 32050	605
LC 2521 P 32090	605
LC 2521 P 32121	605
LC 2521 P 32140	605
LC 2521 P 32142	605
LC 2521 P 4320A	605
LC 2521 P 4320D	605
LC 2521 P 4320F	605
LC 2521 P 4320J	605
LC 2521 P 4320K	605
LC 2521 P 4320M	605
LC 2521 P 4320R	605
LC 2521 P 4320S	605
LC 2521 P 4320T	605
LC 35215 CNP 32030	606
LC 35215 CNP 32050	606
LC 35215 CNP 32090	606
LC 35215 CNP 32121	606
LC 35215 CNP 32140	606
LC 35215 CNP 32142	606
LC 35215 CNP 4320A	606
LC 35215 CNP 4320D	606
LC 35215 CNP 4320F	606
LC 35215 CNP 4320J	606
LC 35215 CNP 4320K	606
LC 35215 CNP 4320M	606
LC 35215 CNP 4320R	606
LC 35215 CNP 4320S	606
LC 35215 CNP 4320T	606
LC 50 NA 32030	610
LC 50 NA 32050	610
LC 50 NA 32090	610
LC 50 NA 32121	610
LC 50 NA 32140	610
LC 50 NA 32142	610
LC 50 NA 4320A	610
LC 50 NA 4320D	610
LC 50 NA 4320F	610
LC 50 NA 4320J	610
LC 50 NA 4320K	610
LC 50 NA 4320M	610
LC 50 NA 4320R	610
LC 50 NA 4320S	610
LC 50 NA 4320T	610
LC 501 TSA 32030	608
LC 501 TSA 32050	608
LC 501 TSA 32090	608
LC 501 TSA 32121	608
LC 501 TSA 32140	608
LC 501 TSA 32142	608
LC 501 TSA 4320A	608
LC 501 TSA 4320D	608
LC 501 TSA 4320F	608
LC 501 TSA 4320J	608
LC 501 TSA 4320K	608
LC 501 TSA 4320M	608
LC 501 TSA 4320R	608
LC 501 TSA 4320S	608
LC 501 TSA 4320T	608
LC 502 TSA 32030	608
LC 502 TSA 32050	608
LC 502 TSA 32090	608
LC 502 TSA 32121	608
LC 502 TSA 32140	608
LC 502 TSA 32142	608
LC 502 TSA 4320A	608
LC 502 TSA 4320D	608
LC 502 TSA 4320F	608
LC 502 TSA 4320J	608

Ref.-no.	Page
LC 502 TSA 4320K	608
LC 502 TSA 4320M	608
LC 502 TSA 4320R	608
LC 502 TSA 4320S	608
LC 502 TSA 4320T	608
LC 503 TSA 32030	609
LC 503 TSA 32050	609
LC 503 TSA 32090	609
LC 503 TSA 32121	609
LC 503 TSA 32140	609
LC 503 TSA 32142	609
LC 503 TSA 4320A	609
LC 503 TSA 4320D	609
LC 503 TSA 4320F	609
LC 503 TSA 4320J	609
LC 503 TSA 4320K	609
LC 503 TSA 4320M	609
LC 503 TSA 4320R	609
LC 503 TSA 4320S	609
LC 503 TSA 4320T	609
LC 504 TSA 32030	609
LC 504 TSA 32050	609
LC 504 TSA 32090	609
LC 504 TSA 32121	609
LC 504 TSA 32140	609
LC 504 TSA 32142	609
LC 504 TSA 4320A	609
LC 504 TSA 4320D	609
LC 504 TSA 4320F	609
LC 504 TSA 4320J	609
LC 504 TSA 4320K	609
LC 504 TSA 4320M	609
LC 504 TSA 4320R	609
LC 504 TSA 4320S	609
LC 504 TSA 4320T	609
LC 981 32030	610
LC 981 32050	610
LC 981 32090	610
LC 981 32121	610
LC 981 32140	610
LC 981 32142	610
LC 981 4320A	610
LC 981 4320D	610
LC 981 4320F	610
LC 981 4320J	610
LC 981 4320K	610
LC 981 4320M	610
LC 981 4320R	610
LC 981 4320S	610
LC 981 4320T	610
LC 982 32030	611
LC 982 32050	611
LC 982 32090	611
LC 982 32121	611
LC 982 32140	611
LC 982 32142	611
LC 982 4320A	611
LC 982 4320D	611
LC 982 4320F	611
LC 982 4320J	611
LC 982 4320K	611
LC 982 4320M	611
LC 982 4320R	611
LC 982 4320S	611
LC 982 4320T	611
LC 983 32030	611
LC 983 32050	611
LC 983 32090	611
LC 983 32121	611
LC 983 32140	611
LC 983 32142	611
LC 983 4320A	611
LC 983 4320D	611
LC 983 4320F	611
LC 983 4320J	611
LC 983 4320K	611
LC 983 4320M	611
LC 983 4320R	611
LC 983 4320S	611

Ref.-no.	Page
LC 983 4320T	611
LC 990 32030	602
LC 990 32050	602
LC 990 32090	602
LC 990 32121	602
LC 990 32140	602
LC 990 32142	602
LC 990 4320A	602
LC 990 4320D	602
LC 990 4320F	602
LC 990 4320J	602
LC 990 4320K	602
LC 990 4320M	602
LC 990 4320R	602
LC 990 4320S	602
LC 990 4320T	602
LC 990 KO5 32030	602
LC 990 KO5 32050	602
LC 990 KO5 32090	602
LC 990 KO5 32121	602
LC 990 KO5 32140	602
LC 990 KO5 32142	602
LC 990 KO5 4320A	602
LC 990 KO5 4320D	602
LC 990 KO5 4320F	602
LC 990 KO5 4320J	602
LC 990 KO5 4320K	602
LC 990 KO5 4320M	602
LC 990 KO5 4320R	602
LC 990 KO5 4320S	602
LC 990 KO5 4320T	602
LC 995 32030	603
LC 995 32050	603
LC 995 32090	603
LC 995 32121	603
LC 995 32140	603
LC 995 32142	603
LC 995 4320A	603
LC 995 4320D	603
LC 995 4320F	603
LC 995 4320J	603
LC 995 4320K	603
LC 995 4320M	603
LC 995 4320R	603
LC 995 4320S	603
LC 995 4320T	603
LED KO6 TX 24	117
LES 01	696
LPK 63 RT	46
LPK 63 SW	46
LS 101	684
LS 101 KO5	684
LS 101 KO5 LG	684
LS 101 KO5 SW	684
LS 101 KO5 SWM	684
LS 101 KO5 WW	684
LS 101 KO5 WWM	684
LS 101 KO5P	684
LS 101 KO5P LG	684
LS 101 KO5P SW	684
LS 101 KO5P SWM	684
LS 101 KO5P WW	684
LS 101 KO5P WWM	684
LS 101 LG	684
LS 101 P	684
LS 101 P LG	684
LS 101 P SW	684
LS 101 P SWM	684
LS 101 P WW	684
LS 101 P WWM	684
LS 101 SW	684
LS 101 SWM	684
LS 101 WW	684
LS 101 WWM	684
LS 102	685
LS 102 KO5	685
LS 102 KO5 LG	685
LS 102 KO5 SW	685
LS 102 KO5 SWM	685

Ref.-no.	Page
LS 102 KO5 WW	685
LS 102 KO5 WWM	685
LS 102 KO5P	685
LS 102 KO5P LG	685
LS 102 KO5P SW	685
LS 102 KO5P SWM	685
LS 102 KO5P WW	685
LS 102 KO5P WWM	685
LS 102 LG	685
LS 102 P	685
LS 102 P LG	685
LS 102 P SW	685
LS 102 P SWM	685
LS 102 P WW	685
LS 102 P WWM	685
LS 102 SW	685
LS 102 SWM	685
LS 102 WW	685
LS 102 WWM	685
LS 11030 WW	526
LS 11030-20 WW	526
LS 11060 WW	526
LS 11120 WW	526
LS 11120-20 WW	526
LS 11240 WW	526
LS 11360 WW	526
LS 11720 WW	526
LS 1520	527
LS 1520 BF GN	527
LS 1520 BF O	527
LS 1520 BF RT	527
LS 1520 BF WW	527
LS 1520 BFKI GN	527
LS 1520 BFKI O	527
LS 1520 BFKI RT	527
LS 1520 BFKI WW	527
LS 1520 BFKIKL	538
LS 1520 BFKIKL GN	538
LS 1520 BFKIKL LG	538
LS 1520 BFKIKL O	538
LS 1520 BFKIKL RT	538
LS 1520 BFKIKL SW	538
LS 1520 BFKIKL SWM	538
LS 1520 BFKIKL WW	538
LS 1520 BFKIKL WWM	538
LS 1520 BFKINA GN	529
LS 1520 BFKINA O	529
LS 1520 BFKINA RT	529
LS 1520 BFKINA WW	529
LS 1520 BFKL	537
LS 1520 BFKL GN	537
LS 1520 BFKL LG	537
LS 1520 BFKL O	537
LS 1520 BFKL RT	537
LS 1520 BFKL SW	537
LS 1520 BFKL SWM	537
LS 1520 BFKL WW	537
LS 1520 BFKL WWM	537
LS 1520 BFNA GN	529
LS 1520 BFNA O	529
LS 1520 BFNA RT	529
LS 1520 BFNA WW	529
LS 1520 BFNAK	539
LS 1520 BFNAKL GN	539
LS 1520 BFNAKL LG	539
LS 1520 BFNAKL O	539
LS 1520 BFNAKL RT	539
LS 1520 BFNAKL SW	539
LS 1520 BFNAKL SWM	539
LS 1520 BFNAKL WW	539
LS 1520 BFNAKL WWM	539
LS 1520 BFNAKO GN	534
LS 1520 BFNAKO O	534
LS 1520 BFNAKO RT	534
LS 1520 BFNAKO WW	534
LS 1520 F-15 CA	71
LS 1520 F-15 CA LG	71
LS 1520 F-15 CA SW	71
LS 1520 F-15 CA SWM	71

Ref.-no.	Page
LS 1520 F-15 CA WW	71
LS 1520 F-15 CA WWM	71
LS 1520 F-18 A	69
LS 1520 F-18 A LG	69
LS 1520 F-18 A SW	69
LS 1520 F-18 A SWM	69
LS 1520 F-18 A WW	69
LS 1520 F-18 A WWM	69
LS 1520 F-18 C	70
LS 1520 F-18 C LG	70
LS 1520 F-18 C SW	70
LS 1520 F-18 C SWM	70
LS 1520 F-18 C WW	70
LS 1520 F-18 C WWM	70
LS 1520 INA GN	535
LS 1520 INA KO GN	535
LS 1520 INA KO O	535
LS 1520 INA KO RT	535
LS 1520 INA KO WW	535
LS 1520 INA O	535
LS 1520 INA RT	535
LS 1520 INA WW	535
LS 1520 KI	527
LS 1520 KI GGO	527
LS 1520 KI LG	527
LS 1520 KI SW	527
LS 1520 KI SWM	527
LS 1520 KI WW	527
LS 1520 KI WWM	527
LS 1520 KIKL	538
LS 1520 KIKL LG	538
LS 1520 KIKL SW	538
LS 1520 KIKL WW	538
LS 1520 KINA	529
LS 1520 KINA LG	529
LS 1520 KINA SW	529
LS 1520 KINA SWM	529
LS 1520 KINA WW	529
LS 1520 KINA WWM	529
LS 1520 KL	537
LS 1520 KL LG	537
LS 1520 KL SW	537
LS 1520 KL WW	537
LS 1520 LG	527
LS 1520 NA	529
LS 1520 NA LG	529
LS 1520 NA SW	529
LS 1520 NA SWM	529
LS 1520 NA WW	529
LS 1520 NA WWM	529
LS 1520 NAKLKO	540
LS 1520 NAKLKO GN	540
LS 1520 NAKLKO LG	540
LS 1520 NAKLKO O	540
LS 1520 NAKLKO RT	540
LS 1520 NAKLKO SW	540
LS 1520 NAKLKO WW	540
LS 1520 NAKLSL	541
LS 1520 NAKLSL LG	541
LS 1520 NAKLSL SW	541
LS 1520 NAKLSL WW	541
LS 1520 NAKO	534
LS 1520 NAKO LG	534
LS 1520 NAKO SW	534
LS 1520 NAKO WW	534
LS 1520 SW	527
LS 1520 SWM	527
LS 1520 WW	527
LS 1520 WWM	527
LS 1520-13 SEV	542
LS 1520-13 SEV LG	542
LS 1520-13 SEV SW	542
LS 1520-13 SEV SWM	542
LS 1520-13 SEV WW	542
LS 1520-13 SEV WWM	542
LS 1520-15 CA	68
LS 1520-15 CA LG	68
LS 1520-15 CA SW	68
LS 1520-15 CA SWM	68

Ref.-no.	Page
LS 1520-15 CA WW	68
LS 1520-15 CA WWM	68
LS 1520-18 A	66
LS 1520-18 A LG	66
LS 1520-18 A SW	66
LS 1520-18 A SWM	66
LS 1520-18 A WW	66
LS 1520-18 A WWM	66
LS 1520-18 C	67
LS 1520-18 C LG	67
LS 1520-18 C SW	67
LS 1520-18 C SWM	67
LS 1520-18 C WW	67
LS 1520-18 C WWM	67
LS 1520-O LG LNW	132
LS 1520-O LNW	132
LS 1520-O SW LNW	132
LS 1520-O SWM LNW	132
LS 1520-O WW LNW	132
LS 1520-O WWM LNW	132
LS 1521	528
LS 1521 BF O	528
LS 1521 BF RT	528
LS 1521 BFKI O	528
LS 1521 BFNAKL	539
LS 1521 BFNAKL LG	539
LS 1521 BFNAKL SW	539
LS 1521 BFNAKL WW	539
LS 1521 F LG PL-1	543
LS 1521 F PL-1	543
LS 1521 F SW PL-1	543
LS 1521 F WW PL-1	543
LS 1521 FKI LG PL-1	543
LS 1521 FKI PL-1	543
LS 1521 FKI SW PL-1	543
LS 1521 FKI SWM PL-1	543
LS 1521 FKI WW PL-1	543
LS 1521 FKI WWM PL-1	543
LS 1521 FKL LG PL1	543
LS 1521 FKL PL1	543
LS 1521 FKL SW PL1	543
LS 1521 FKL SWM PL1	543
LS 1521 FKL WW PL1	543
LS 1521 FKL WWM PL1	543
LS 1521 KI	528
LS 1521 KI GGO	528
LS 1521 KI LG	528
LS 1521 KI SW	528
LS 1521 KI SWM	528
LS 1521 KI WW	528
LS 1521 KI WWM	528
LS 1521 KIKL	539
LS 1521 KIKL LG	539
LS 1521 KIKL SW	539
LS 1521 KIKL SWM	539
LS 1521 KIKL WW	539
LS 1521 KIKL WWM	539
LS 1521 KINA	530
LS 1521 KINA LG	530
LS 1521 KINA SW	530
LS 1521 KINA WW	530
LS 1521 KL	538
LS 1521 KL LG	538
LS 1521 KL SW	538
LS 1521 KL SWM	538
LS 1521 KL WW	538
LS 1521 KL WWM	538
LS 1521 LG	528
LS 1521 NA	529
LS 1521 NA LG	529
LS 1521 NA SW	529
LS 1521 NA WW	529
LS 1521 SW	528
LS 1521 SWM	528
LS 1521 WW	528
LS 1521 WWM	528
LS 1539-O LG LNW	133
LS 1539-O LNW	133
LS 1539-O SW LNW	133

Ref.-no.	Page
LS 1539-O SWM LNW	133
LS 1539-O WW LNW	133
LS 1539-O WWM LNW	133
LS 1539-OO LG LNW	133
LS 1539-OO LNW	133
LS 1539-OO SW LNW	133
LS 1539-OO SWM LNW	133
LS 1539-OO WW LNW	133
LS 1539-OO WWM LNW	133
LS 1700	231
LS 1700 LG	231
LS 1700 P	233
LS 1700 P LG	233
LS 1700 P SW	233
LS 1700 P SWM	233
LS 1700 P WW	233
LS 1700 P WWM	233
LS 1700 SW	231
LS 1700 SWM	231
LS 1700 WW	231
LS 1700 WWM	231
LS 1701	235
LS 1701 LG	235
LS 1701 P	237
LS 1701 P LG	237
LS 1701 P SW	237
LS 1701 P SWM	237
LS 1701 P WW	237
LS 1701 P WWM	237
LS 1701 SW	235
LS 1701 SWM	235
LS 1701 WW	235
LS 1701 WWM	235
LS 1702	239
LS 1702 LG	239
LS 1702 SW	239
LS 1702 SWM	239
LS 1702 WW	239
LS 1702 WWM	239
LS 17180	249
LS 17180 LG	249
LS 17180 SW	249
LS 17180 SWM	249
LS 17180 WU	251
LS 17180 WU LG	251
LS 17180 WU SW	251
LS 17180 WU SWM	251
LS 17180 WU WW	251
LS 17180 WU WWM	251
LS 17180 WW	249
LS 17180 WWM	249
LS 17181	255
LS 17181 LG	255
LS 17181 SW	255
LS 17181 SWM	255
LS 17181 WU	257
LS 17181 WU LG	257
LS 17181 WU SW	257
LS 17181 WU SWM	257
LS 17181 WU WW	257
LS 17181 WU WWM	257
LS 17181 WW	255
LS 17181 WWM	255
LS 17280	253
LS 17280 LG	253
LS 17280 SW	253
LS 17280 SWM	253
LS 17280 WW	253
LS 17280 WWM	253
LS 17281	259
LS 17281 LG	259
LS 17281 SW	259
LS 17281 SWM	259
LS 17281 WW	259
LS 17281 WWM	259
LS 1750 D SW	240
LS 1750 D WW	240
LS 1751 BT	243
LS 1751 BT LG	243

Ref.-no.	Page
LS 1751 BT SW	243
LS 1751 BT SWM	243
LS 1751 BT WW	243
LS 1751 BT WWM	243
LS 1751 PBT	245
LS 1751 PBT LG	245
LS 1751 PBT SW	245
LS 1751 PBT SWM	245
LS 1751 PBT WW	245
LS 1751 PBT WWM	245
LS 1790 D SW	264
LS 1790 D WW	264
LS 1940	551
LS 1940 KO5	687
LS 1940 KO5 LG	687
LS 1940 KO5 SW	687
LS 1940 KO5 SWM	687
LS 1940 KO5 WW	687
LS 1940 KO5 WWM	687
LS 1940 LG	551
LS 1940 SW	551
LS 1940 SWM	551
LS 1940 WW	551
LS 1940 WWM	551
LS 1941	526
LS 1941 LG	526
LS 1941 SW	526
LS 1941 SWM	526
LS 1941 WW	526
LS 1941 WWM	526
LS 1969 USB	74
LS 1969 USB LG	74
LS 1969 USB SW	74
LS 1969 USB SWM	74
LS 1969 USB WW	74
LS 1969 USB WWM	74
LS 1969-1 NA WE	572
LS 1969-1 NA WE LG	572
LS 1969-1 NA WE SW	572
LS 1969-1 NA WE SWM	572
LS 1969-1 NA WE WW	572
LS 1969-1 NA WE WWM	572
LS 1969-1 WE	571
LS 1969-1 WE LG	571
LS 1969-1 WE SW	571
LS 1969-1 WE SWM	571
LS 1969-1 WE WW	571
LS 1969-1 WE WWM	571
LS 1969-15 NAWE	575
LS 1969-15 NAWE LG	575
LS 1969-15 NAWE SW	575
LS 1969-15 NAWE SWM	575
LS 1969-15 NAWE WW	575
LS 1969-15 NAWE WWM	575
LS 1969-15 WE	574
LS 1969-15 WE LG	574
LS 1969-15 WE SW	574
LS 1969-15 WE SWM	574
LS 1969-15 WE WW	574
LS 1969-15 WE WWM	574
LS 1969-2 AT	576
LS 1969-2 AT WW	576
LS 1969-2 NA AT	577
LS 1969-2 NA AT WW	577
LS 1969-2 NA INF	577
LS 1969-2 NA INF WW	577
LS 1969-2 NA WE	572
LS 1969-2 NA WE LG	572
LS 1969-2 NA WE SW	572
LS 1969-2 NA WE SWM	572
LS 1969-2 NA WE WW	572
LS 1969-2 NA WE WWM	572
LS 1969-2 WE	571
LS 1969-2 WE LG	571
LS 1969-2 WE SW	571
LS 1969-2 WE SWM	571
LS 1969-2 WE WW	571
LS 1969-2 WE WWM	571
LS 1969-25 NA WE	575

Ref.-no.	Page
LS 1969-25 N WE LG	575
LS 1969-25 NAWE SW	575
LS 1969-25 NAWE SWM	575
LS 1969-25 NAWE WW	575
LS 1969-25 NAWE WWM	575
LS 1969-25 WE	574
LS 1969-25 WE LG	574
LS 1969-25 WE SW	574
LS 1969-25 WE SWM	574
LS 1969-25 WE WW	574
LS 1969-25 WE WWM	574
LS 20 NA	535
LS 2178	691
LS 2178 LG	691
LS 2178 ORTS	691
LS 2178 ORTS LG	691
LS 2178 ORTS SW	691
LS 2178 ORTS SWM	691
LS 2178 ORTS WW	691
LS 2178 ORTS WWM	691
LS 2178 SW	691
LS 2178 SWM	691
LS 2178 TS	691
LS 2178 TS LG	691
LS 2178 TS SW	691
LS 2178 TS SWM	691
LS 2178 TS WW	691
LS 2178 TS WWM	691
LS 2178 WW	691
LS 2178 WWM	691
LS 2567-G3	118
LS 2567-G3 SWM	118
LS 2567-G3 WW	118
LS 2567-G3 WWM	118
LS 3181	688
LS 3181 LG	688
LS 3181 SW	688
LS 3181 SWM	688
LS 3181 WW	688
LS 3181 WWM	688
LS 3181-1	689
LS 3181-1 LG	689
LS 3181-1 SW	689
LS 3181-1 SWM	689
LS 3181-1 WW	689
LS 3181-1 WWM	689
LS 3281	689
LS 3281 LG	689
LS 3281 SW	689
LS 3281 SWM	689
LS 3281 WW	689
LS 3281 WWM	689
LS 3281-1	690
LS 3281-1 LG	690
LS 3281-1 SW	690
LS 3281-1 SWM	690
LS 3281-1 WW	690
LS 3281-1 WWM	690
LS 3521-5 CN PL	546
LS 3521-5 CN SW PL	546
LS 3521-5 CN SWM PL	546
LS 3521-5 CN WW PL	546
LS 3521-5 CN WWM PL	546
LS 4 AR	674
LS 401 TSA	673
LS 401 TSA LG	673
LS 401 TSA SW	673
LS 401 TSA SWM	673
LS 401 TSA WW	673
LS 401 TSA WWM	673
LS 401 TSAP	673
LS 401 TSAP LG	673
LS 401 TSAP SW	673
LS 401 TSAP SWM	673
LS 401 TSAP WW	673
LS 401 TSAP WWM	673
LS 402 TSA	673
LS 402 TSA LG	673
LS 402 TSA SW	673

Ref.-no.	Page
LS 402 TSA SWM	673
LS 402 TSA WW	673
LS 402 TSA WWM	673
LS 402 TSAP	673
LS 402 TSAP LG	673
LS 402 TSAP SW	673
LS 402 TSAP SWM	673
LS 402 TSAP WW	673
LS 402 TSAP WWM	673
LS 403 TSA	673
LS 403 TSA LG	673
LS 403 TSA SW	673
LS 403 TSA SWM	673
LS 403 TSA WW	673
LS 403 TSA WWM	673
LS 404 TSA	673
LS 404 TSA LG	673
LS 404 TSA SW	673
LS 404 TSA SWM	673
LS 404 TSA WW	673
LS 404 TSA WWM	673
LS 404 TSA	673
LS 404 TSA LG	673
LS 404 TSA SW	673
LS 404 TSA SWM	673
LS 404 TSA WW	673
LS 404 TSA WWM	673
LS 404 TSA	673
LS 404 TSA LG	673
LS 404 TSA SW	673
LS 404 TSA SWM	673
LS 404 TSA WW	673
LS 404 TSA WWM	673
LS 404 TSA	673
LS 404 TSA LG	673
LS 404 TSA SW	673
LS 404 TSA SWM	673
LS 404 TSA WW	673
LS 404 TSA WWM	673
LS 404 TSA	673
LS 404 TSA LG	673
LS 404 TSA SW	673
LS 404 TSA SWM	673
LS 404 TSA WW	673
LS 404 TSA WWM	673
LS 404 TSA	673
LS 404 TSA LG	673
LS 404 TSA SW	673
LS 404 TSA SWM	673
LS 404 TSA WW	673
LS 404 TSA WWM	673
LS 404 TSA	673
LS 404 TSA LG	673
LS 404 TSA SW	673
LS 404 TSA SWM	673
LS 404 TSA WW	673
LS 404 TSA WWM	673
LS 409 T	676
LS 4093 TSA	676
LS 4093 TSA LG	676
LS 4093 TSA SW	676
LS 4093 TSA SWM	676
LS 4093 TSA WW	676
LS 4093 TSA WWM	676
LS 4171 GI SW PL	335
LS 4171 GI SW SW PL	335
LS 4171 GI SW SWM PL	335
LS 4171 GI SW WW PL	335
LS 4171 GI SW WWM PL	335
LS 50 NA	669
LS 50 NA LG	669
LS 50 NA SW	669
LS 50 NA SWM	669
LS 50 NA TX SW-L	669
LS 50 NA W	669
LS 50 NA WW	669
LS 50 NA WWM	669
LS 501 TSA	668
LS 501 TSA GGO	668
LS 501 TSA LG	668
LS 501 TSA SW	668
LS 501 TSA SWM	668
LS 501 TSA WW	668
LS 501 TSA WWM	668
LS 502 TSA	668
LS 502 TSA GGO	668
LS 502 TSA LG	668
LS 502 TSA SW	668
LS 502 TSA SWM	668
LS 502 TSA WW	668
LS 502 TSA WWM	668
LS 503 TSA	668
LS 503 TSA GGO	668
LS 503 TSA LG	668
LS 503 TSA SW	668
LS 503 TSA SWM	668
LS 503 TSA WW	668
LS 503 TSA WWM	668
LS 504 TSA	668
LS 504 TSA GGO	668
LS 504 TSA LG	668
LS 504 TSA SW	668
LS 504 TSA SWM	668

Ref.-no.	Page
LS 504 TSA WW	668
LS 504 TSA WWM	668
LS 5071 RF TSM	678
LS 5071 TSM	666
LS 5072 RF TSM	678
LS 5072 TSM	666
LS 5073 RF TSM	678
LS 5073 TSM	666
LS 5074 RF TSM	678
LS 5074 TSM	666
LS 5091 TSEM	667
LS 5091 TSM	666
LS 5092 TSEM	667
LS 5092 TSM	666
LS 5093 TSEM	667
LS 5093 TSM	666
LS 5094 TSEM	667
LS 5094 TSM	666
LS 5178 TSEM	667
LS 5178 TSM	667
LS 5192 KRM TS D	667
LS 5194 KRM TS D	667
LS 520-45	531
LS 520-45 LG	531
LS 520-45 SW	531
LS 520-45 WW	531
LS 5201 HYG	319
LS 5201 HYG SW	319
LS 5201 HYG WW	319
LS 521 IN WW PL	547
LS 521 NAUF WW	535
LS 521-15 SWM	544
LS 521-15 WW	544
LS 521-15 WWM	544
LS 521-20 SWM	544
LS 521-20 WW	544
LS 521-20 WWM	544
LS 5212 TSM	288
LS 5224 TSM	288
LS 5236 TSM	288
LS 5248 TSM	288
LS 539 LG LED LW-12	136
LS 539 LG LEDWB	135
LS 539 LG RGB	136
LS 539 N71LG RGB	135
LS 539 N71LGLLED B	134
LS 539 N71LGLLED W	134
LS 539 N71SW RGB	135
LS 539 N71SWLED B	134
LS 539 N71SWLED W	134
LS 539 N71WW RGB	135
LS 539 N71WWLED B	134
LS 539 N71WWLED W	134
LS 539 SW LED LW-12	136
LS 539 SW LEDWB	135
LS 539 SW RGB	136
LS 539 WW LED LW-12	136
LS 539 WW LEDWB	135
LS 539 WW RGB	136
LS 539-2 LG LED RG	135
LS 539-2 SW LED RG	135
LS 539-2 WW LED RG	135
LS 5520.30	536
LS 5520.30 SW	536
LS 5520.30 WW	536
LS 5530 FIB	536
LS 5530 FIB SW	536
LS 5530 FIB WW	536
LS 569-30 BF PL	39
LS 569-30 BF PL LG	39
LS 569-30 BF PL SW	39
LS 569-30 BF PL WW	39
LS 581 A SW	590
LS 581 A SWM	590
LS 581 A W	590
LS 581 A WW	590
LS 581 A WWM	590
LS 582 A SW	590
LS 582 A SWM	590

Ref.-no.	Page
LS 582 A W	590
LS 582 A WW	590
LS 582 A WWM	590
LS 583 A SW	591
LS 583 A SWM	591
LS 583 A W	591
LS 583 A WW	102
LS 583 A WWM	591
LS 590 CARD	107
LS 590 CARD LG	107
LS 590 CARD SW	107
LS 590 CARD SWM	107
LS 590 CARD WW	107
LS 590 CARD WWM	107
LS 594-8 WW	566
LS 594-9 WW	566
LS 61 INA BT	535
LS 90 NA	28
LS 911	542
LS 911 WW	542
LS 925	526
LS 925 LG	526
LS 925 SW	526
LS 925 SWM	526
LS 925 WW	526
LS 925 WWM	526
LS 928	525
LS 928 LG	525
LS 928 SW	525
LS 928 SWM	525
LS 928 WW	525
LS 928 WWM	525
LS 93 HP	525
LS 937	581
LS 937 LG	581
LS 937 SW	581
LS 937 WW	581
LS 961 B	579
LS 961 B WW	579
LS 961 Z	28
LS 961 Z LG	28
LS 961 Z SW	28
LS 961 Z SWM	28
LS 961 Z WW	28
LS 961 Z WWM	28
LS 961 Z5	582
LS 961 Z5 SW	582
LS 961 Z5 SWM	582
LS 961 Z5 WW	582
LS 961 Z5 WWM	582
LS 962	564
LS 962 GGO	564
LS 962 LG	564
LS 962 SW	564
LS 962 WW	564
LS 964	581
LS 964 GE	581
LS 964 WW	581
LS 965-2	579
LS 965-2 LG	579
LS 965-2 SW	579
LS 965-2 WW	579
LS 967 S	567
LS 967 S SWM	567
LS 967 S WW	567
LS 967 S WWM	567
LS 969 T	578
LS 969 T LG	578
LS 969 T SW	578
LS 969 T SWM	578
LS 969 T WW	578
LS 969 T WWM	578
LS 969-1 NAUA	569
LS 969-1 NAUA LG	569
LS 969-1 NAUA SW	569
LS 969-1 NAUA SWM	569
LS 969-1 NAUA WW	569
LS 969-1 NAUA WWM	569
LS 969-1 UA	568

Ref.-no.	Page
LS 969-1 UA GGO	568
LS 969-1 UA LG	568
LS 969-1 UA SW	568
LS 969-1 UA SWM	568
LS 969-1 UA WW	568
LS 969-1 UA WWM	568
LS 969-2 NAUA	570
LS 969-2 NAUA LG	570
LS 969-2 NAUA SW	570
LS 969-2 NAUA SWM	570
LS 969-2 NAUA WW	570
LS 969-2 NAUA WWM	570
LS 969-2 UA	570
LS 969-2 UA GGO	570
LS 969-2 UA LG	570
LS 969-2 UA SW	570
LS 969-2 UA SWM	570
LS 969-2 UA WW	570
LS 969-2 UA WWM	570
LS 981 GGO	589
LS 981 LG	587
LS 981 SW	587
LS 981 SWM	587
LS 981 W	587
LS 981 WW	587
LS 981 WWM	587
LS 981 Z	582
LS 981 Z LG	582
LS 981 Z SW	582
LS 981 Z SWM	582
LS 981 Z WW	582
LS 981 Z WWM	582
LS 982 GGO	589
LS 982 LG	587
LS 982 SW	587
LS 982 SWM	587
LS 982 W	587
LS 982 WW	587
LS 982 WWM	587
LS 983 GGO	589
LS 983 LG	587
LS 983 SW	587
LS 983 SWM	587
LS 983 W	587
LS 983 WW	587
LS 983 WWM	587
LS 984 GGO	589
LS 984 LG	587
LS 984 SW	587
LS 984 SWM	587
LS 984 W	587
LS 984 WW	587
LS 984 WWM	587
LS 985 LG	587
LS 985 SW	587
LS 985 SWM	587
LS 985 W	587
LS 985 WW	587
LS 985 WWM	587
LS 990	516
LS 990 A	568
LS 990 A LG	568
LS 990 A SW	568
LS 990 A SWM	568
LS 990 A WW	568
LS 990 A WWM	568
LS 990 BFKL	29
LS 990 BFKL GN	29
LS 990 BFKL LAN	121
LS 990 BFKL LAN LG	121
LS 990 BFKL LAN SW	121
LS 990 BFKL LAN WW	121
LS 990 BFKL LG	29
LS 990 BFKL O	29
LS 990 BFKL RT	29
LS 990 BFKL SOC	120
LS 990 BFKL SOC LG	120
LS 990 BFKL SOC SW	120
LS 990 BFKL SOC WW	120

Ref.-no.	Page
LS 990 BFKL SW	29
LS 990 BFKL SWM	29
LS 990 BFKL USB	75
LS 990 BFKL USB LG	75
LS 990 BFKL USB SW	75
LS 990 BFKL USB WW	75
LS 990 BFKL WW	29
LS 990 BFKL WWM	29
LS 990 BFNACL	29
LS 990 BFNACL GN	29
LS 990 BFNACL LG	29
LS 990 BFNACL O	29
LS 990 BFNACL RT	29
LS 990 BFNACL SW	29
LS 990 BFNACL WW	29
LS 990 GGO	516
LS 990 K	519
LS 990 K LG	519
LS 990 K SW	519
LS 990 K SWM	519
LS 990 K WW	519
LS 990 K WWM	519
LS 990 KL	29
LS 990 KL GGO	29
LS 990 KL SW	29
LS 990 KL WW	29
LS 990 KO5	517
LS 990 KO5 GGO	517
LS 990 KO5 K	519
LS 990 KO5 K SW	519
LS 990 KO5 K SWM	519
LS 990 KO5 K WW	519
LS 990 KO5 K WWM	519
LS 990 KO5 L	519
LS 990 KO5 L SW	519
LS 990 KO5 L SWM	519
LS 990 KO5 L WW	519
LS 990 KO5 L WWM	519
LS 990 KO5 LG	517
LS 990 KO5 SW	517
LS 990 KO5 SWM	517
LS 990 KO5 T	520
LS 990 KO5 T SW	520
LS 990 KO5 T SWM	520
LS 990 KO5 T WW	520
LS 990 KO5 T WWM	520
LS 990 KO5 WW	517
LS 990 KO5 WWM	517
LS 990 L	518
LS 990 L LG	518
LS 990 L SW	518
LS 990 L SWM	518
LS 990 L WW	518
LS 990 L WWM	518
LS 990 LG	516
LS 990 NA	516
LS 990 NA GL PL	522
LS 990 NA LG	516
LS 990 NA SW	516
LS 990 NA SWM	516
LS 990 NA WW	516
LS 990 NA WWM	516
LS 990 NAGL	522
LS 990 NAKO5	518
LS 990 NAKO5 LG	518
LS 990 NAKO5 SW	518
LS 990 NAKO5 SWM	518
LS 990 NAKO5 WW	518
LS 990 NAKO5 WWM	518
LS 990 SAT	565
LS 990 SAT LG	565
LS 990 SAT SW	565
LS 990 SAT SWM	565
LS 990 SAT WW	565
LS 990 SAT WWM	565
LS 990 SW	516
LS 990 SWM	516
LS 990 T	520
LS 990 T LG	520

Ref.-no.	Page
LS 990 T SW	520
LS 990 T SWM	520
LS 990 T WW	520
LS 990 T WWM	520
LS 990 TV	565
LS 990 TV GGO	565
LS 990 TV LG	565
LS 990 TV SW	565
LS 990 TV SWM	565
LS 990 TV WW	565
LS 990 TV WWM	565
LS 990 WW	516
LS 990 WWM	516
LS 993 BF	525
LS 993 BF LG	525
LS 993 BF SW	525
LS 993 BF SWM	525
LS 993 BF WW	525
LS 993 BF WWM	525
LS 994 B	579
LS 994 B LG	579
LS 994 B SW	579
LS 994 B SWM	579
LS 994 B WW	579
LS 994 B WWM	579
LS 994-1	579
LS 994-1 SW	579
LS 994-1 WW	579
LS 995	523
LS 995 GGO	523
LS 995 KO5	523
LS 995 KO5 LG	523
LS 995 KO5 SW	523
LS 995 KO5 SWM	523
LS 995 KO5 WW	523
LS 995 KO5 WWM	523
LS 995 LG	523
LS 995 NA	523
LS 995 NA KO5	524
LS 995 NA KO5 WW	524
LS 995 NA WW	523
LS 995 P	524
LS 995 P LG	524
LS 995 P SW	524
LS 995 P SWM	524
LS 995 P WW	524
LS 995 P WWM	524
LS 995 SW	523
LS 995 SWM	523
LS 995 WW	523
LS 995 WWM	523
LS CARD RFID	109
LS CARD RFID LG	109
LS CARD RFID SW	109
LS CARD RFID SWM	109
LS CARD RFID WW	109
LS CARD RFID WWM	109
LS CD 10711 ST	683
LS CD 10721 ST	683
LS CD 10911 ST	683
LS CD 10911 TE	683
LS CD 10921 ST	683
LS CD 10921 TE	683
LS CU KO5 D	111
LS CU KO5 D LG	111
LS CU KO5 D SW	111
LS CU KO5 D WW	111
LS CU KO5 M	113
LS CU KO5 M 230	115
LS CU KO5 M 230 LG	115
LS CU KO5 M 230 SW	115
LS CU KO5 M 230 WW	115
LS CU KO5 M 24	114
LS CU KO5 M 24 LG	114
LS CU KO5 M 24 SW	114
LS CU KO5 M 24 WW	114
LS CU KO5 M LG	113
LS CU KO5 M SW	113
LS CU KO5 M WW	113

Ref.-no.	Page
LS CU KO6 M 24 SW	116
LS CU KO6 M 24 WW	116
LS CU KO6 M SW	116
LS CU KO6 M WW	116
LS CU KO6 TX SW	117
LS CU KO6 TX WW	117
LS CU KO6 TX-2 SW	117
LS CU KO6 TX-2 WW	117
LS RU KO5 D	110
LS RU KO5 D LG	110
LS RU KO5 D SW	110
LS RU KO5 D WW	110
LS RU KO5 M	112
LS RU KO5 M LG	112
LS RU KO5 M SW	112
LS RU KO5 M WW	112
LSD 981 BF WW	593
LSD 981 LG	593
LSD 981 SW	593
LSD 981 W	593
LSD 981 WW	593
LSD 982 BF WW	593
LSD 982 LG	593
LSD 982 SW	593
LSD 982 W	593
LSD 982 WW	593
LSD 983 BF WW	593
LSD 983 LG	593
LSD 983 SW	593
LSD 983 W	593
LSD 983 WW	593
LSD 984 LG	593
LSD 984 SW	593
LSD 984 W	593
LSD 984 WW	593
LSD 985 LG	593
LSD 985 SW	593
LSD 985 W	593
LSD 985 WW	593
LSM A 4	88
LSM A 4 AL	88
LSM A 4 ANM	88
LSM A 4 CH	88
LSM A 4 MO	88
LSM A 4 SW	88
LSM A 4 SWM	88
LSM A 4 WW	88
LSM A 4 WWM	88
LSM AL 4	88
LSM AL 4 AN	88
LSM AL 4 D	88
LSM CD 4	88
LSM CD 4 GR	88
LSM CD 4 LG	88
LSM CD 4 SW	88
LSM CD 4 WW	88
LSM ES 4	88
LSM LS 4	88
LSM LS 4 LG	88
LSM LS 4 SW	88
LSM LS 4 SWM	88
LSM LS 4 WW	88
LSM LS 4 WWM	88
LSP 981 AL	599
LSP 981 ES	599
LSP 981 GCR	599
LSP 981 GL SW	599
LSP 981 GL WW	599
LSP 981 GLAS	599
LSP 982 AL	599
LSP 982 ES	599
LSP 982 GCR	599
LSP 982 GL SW	599
LSP 982 GL WW	599
LSP 982 GLAS	599
LSP 983 AL	599
LSP 983 ES	599
LSP 983 GCR	599
LSP 983 GL SW	599

Ref.-no.	Page
LSP 983 GL WW	599
LSP 983 GLAS	599
LSP 984 AL	599
LSP 984 ES	599
LSP 984 GCR	599
LSP 984 GL SW	599
LSP 984 GL WW	599
LSP 984 GLAS	599
LSP 985 AL	599
LSP 985 ES	599
LSP 985 GCR	599
LSP 985 GL SW	599
LSP 985 GL WW	599
LSP 985 GLAS	599
LSZ 981 BF SWM	614
LSZ 981 BF WW	614
LSZ 981 BF WWM	614
LSZ 982 BF SWM	614
LSZ 982 BF WW	614
LSZ 982 BF WWM	614
LSZ 983 BF SWM	614
LSZ 983 BF WW	614
LSZ 983 BF WWM	614
LSZ AL 981 BF	614
LSZ AL 981 BF D	615
LSZ AL 982 BF	614
LSZ AL 982 BF D	615
LSZ AL 983 BF	614
LSZ AL 983 BF D	615
LSZ ES 981 BF	614
LSZ ES 982 BF	614
LSZ ES 983 BF	614
LSZ ME 981 BF C	615
LSZ ME 982 BF C	615
LSZ ME 983 BF C	615
M 20 NA	29
MA 1000 AD 1	57
MA 1000 AD 2	57
MA 1000 AD 3	57
MA 1000 AD 4	57
MA A 1011	47
MA A 1011 AL	47
MA A 1011 ANM	47
MA A 1011 SW	47
MA A 1011 SWM	47
MA A 1011 WW	47
MA A 1011 WWM	47
MA A 1021	47
MA A 1021 AL	47
MA A 1021 ANM	47
MA A 1021 SW	47
MA A 1021 SWM	47
MA A 1021 WW	47
MA A 1021 WWM	47
MA A 1031	48
MA A 1031 AL	48
MA A 1031 ANM	48
MA A 1031 SW	48
MA A 1031 SWM	48
MA A 1031 WW	48
MA A 1031 WWM	48
MA A 1072	51
MA A 1072 AL	51
MA A 1072 ANM	51
MA A 1072 SW	51
MA A 1072 SWM	51
MA A 1072 WW	51
MA A 1072 WWM	51
MA A 1082	52
MA A 1082 AL	52
MA A 1082 ANM	52
MA A 1082 SW	52
MA A 1082 SWM	52
MA A 1082 WW	52
MA A 1082 WWM	52
MA A 1102	49
MA A 1102 AL	49
MA A 1102 ANM	49
MA A 1102 SW	49

Ref.-no.	Page
MA A 1102 SWM	49
MA A 1102 WW	49
MA A 1102 WWM	49
MA A 1112	50
MA A 1112 AL	50
MA A 1112 ANM	50
MA A 1112 SW	50
MA A 1112 SWM	50
MA A 1112 WW	50
MA A 1112 WWM	50
MA A 1122	50
MA A 1122 AL	50
MA A 1122 ANM	50
MA A 1122 SW	50
MA A 1122 SWM	50
MA A 1122 WW	50
MA A 1122 WWM	50
MA A 1133	53
MA A 1133 AL	53
MA A 1133 ANM	53
MA A 1133 SW	53
MA A 1133 SWM	53
MA A 1133 WW	53
MA A 1133 WWM	53
MA A 1153	53
MA A 1153 AL	53
MA A 1153 ANM	53
MA A 1153 SW	53
MA A 1153 SWM	53
MA A 1153 WW	53
MA A 1153 WWM	53
MA A 1163	54
MA A 1163 AL	54
MA A 1163 ANM	54
MA A 1163 SW	54
MA A 1163 SWM	54
MA A 1163 WW	54
MA A 1163 WWM	54
MA A 1173	55
MA A 1173 AL	55
MA A 1173 ANM	55
MA A 1173 SW	55
MA A 1173 SWM	55
MA A 1173 WW	55
MA A 1173 WWM	55
MA A 1193	56
MA A 1193 AL	56
MA A 1193 ANM	56
MA A 1193 SW	56
MA A 1193 SWM	56
MA A 1193 WW	56
MA A 1193 WWM	56
MA AL 1011	47
MA AL 1011 AN	47
MA AL 1021	48
MA AL 1021 AN	48
MA AL 1031	49
MA AL 1031 AN	49
MA AL 1072	52
MA AL 1072 AN	52
MA AL 1082	52
MA AL 1082 AN	52
MA AL 1102	49
MA AL 1102 AN	49
MA AL 1112	50
MA AL 1112 AN	50
MA AL 1122	51
MA AL 1122 AN	51
MA AL 1133	53
MA AL 1133 AN	53
MA AL 1153	54
MA AL 1153 AN	54
MA AL 1163	55
MA AL 1163 AN	55
MA AL 1173	55
MA AL 1173 AN	55
MA AL 1193	56
MA AL 1193 AN	56
MA CD 1011 WW	47

Ref.-no.	Page
MA CD 1021 WW	48
MA CD 1031 WW	48
MA CD 1072 WW	51
MA CD 1082 WW	52
MA CD 1102 WW	49
MA CD 1112 WW	50
MA CD 1122 WW	51
MA CD 1133 WW	53
MA CD 1153 WW	54
MA CD 1163 WW	54
MA CD 1173 WW	55
MA CD 1193 WW	56
MA ES 1011	47
MA ES 1021	48
MA ES 1031	49
MA ES 1072	52
MA ES 1082	52
MA ES 1102	49
MA ES 1112	50
MA ES 1122	51
MA ES 1133	53
MA ES 1153	54
MA ES 1163	55
MA ES 1173	55
MA ES 1193	56
MA LS 1011	47
MA LS 1011 LG	47
MA LS 1011 SW	47
MA LS 1011 SWM	47
MA LS 1011 WW	47
MA LS 1011 WWM	47
MA LS 1021	48
MA LS 1021 LG	48
MA LS 1021 SW	48
MA LS 1021 SWM	48
MA LS 1021 WW	48
MA LS 1021 WWM	48
MA LS 1031	49
MA LS 1031 LG	49
MA LS 1031 SW	49
MA LS 1031 SWM	49
MA LS 1031 WW	49
MA LS 1031 WWM	49
MA LS 1072	52
MA LS 1072 LG	52
MA LS 1072 SW	52
MA LS 1072 SWM	52
MA LS 1072 WW	52
MA LS 1072 WWM	52
MA LS 1082	52
MA LS 1082 LG	52
MA LS 1082 SW	52
MA LS 1082 SWM	52
MA LS 1082 WW	52
MA LS 1082 WWM	52
MA LS 1102	49
MA LS 1102 LG	49
MA LS 1102 SW	49
MA LS 1102 SWM	49
MA LS 1102 WW	49
MA LS 1102 WWM	49
MA LS 1112	50
MA LS 1112 LG	50
MA LS 1112 SW	50
MA LS 1112 SWM	50
MA LS 1112 WW	50
MA LS 1112 WWM	50
MA LS 1122	51
MA LS 1122 LG	51
MA LS 1122 SW	51
MA LS 1122 SWM	51
MA LS 1122 WW	51
MA LS 1122 WWM	51
MA LS 1133	53
MA LS 1133 LG	53
MA LS 1133 SW	53
MA LS 1133 SWM	53
MA LS 1133 WW	53
MA LS 1133 WWM	53

Ref.-no.	Page
MA LS 1153	54
MA LS 1153 LG	54
MA LS 1153 SW	54
MA LS 1153 SWM	54
MA LS 1153 WW	54
MA LS 1153 WWM	54
MA LS 1163	55
MA LS 1163 LG	55
MA LS 1163 SW	55
MA LS 1163 SWM	55
MA LS 1163 WW	55
MA LS 1163 WWM	55
MA LS 1173	55
MA LS 1173 LG	55
MA LS 1173 SW	55
MA LS 1173 SWM	55
MA LS 1173 WW	55
MA LS 1173 WWM	55
MA LS 1193	56
MA LS 1193 LG	56
MA LS 1193 SW	56
MA LS 1193 SWM	56
MA LS 1193 WW	56
MA LS 1193 WWM	56
MBT 2424	697
MBT 2424 SW	697
MBT 2424 WW	697
ME 101 AT	684
ME 101 C	684
ME 101 KO5 AT	684
ME 101 KO5 C	684
ME 101 KO5P AT	684
ME 101 KO5P C	684
ME 101 P AT	684
ME 101 P C	684
ME 102 AT	685
ME 102 C	685
ME 102 KO5 AT	685
ME 102 KO5 C	685
ME 102 KO5P AT	685
ME 102 KO5P C	685
ME 102 P AT	685
ME 102 P C	685
ME 12-0 C K 25	622
ME 12-0 C R 25	620
ME 12-0 KO C K 25	622
ME 12-0 KO C R 25	620
ME 12-20 C K 25	622
ME 12-20 C R 25	620
ME 12-200 C K 25	622
ME 12-200 C R 25	620
ME 12-25 C K 25	623
ME 12-25 C R 25	621
ME 12-250 C K 25	623
ME 12-250 C R 25	621
ME 12-5 C K 25	623
ME 12-5 C R 25	621
ME 12-5 KO C K 25	623
ME 12-5 KO C R 25	621
ME 12-5 P C K 25	623
ME 12-5 P C R 25	621
ME 1520 AT	527
ME 1520 C	527
ME 1520 F-15 CA AT-L	71
ME 1520 F-15 CA C-L	71
ME 1520 F-18 A AT-L	69
ME 1520 F-18 A C-L	69
ME 1520 F-18 C AT-L	70
ME 1520 F-18 C C-L	70
ME 1520 KI AT	527
ME 1520 KI C	527
ME 1520 KIKL AT	538
ME 1520 KIKL C	538
ME 1520 KINA AT	530
ME 1520 KINA C	530
ME 1520 KL AT	537
ME 1520 KL C	537
ME 1520 NA AT	530
ME 1520 NA C	530

Ref.-no.	Page
ME 1520 NAKL AT	540
ME 1520 NAKL C	540
ME 1520 NAKLSL AT	541
ME 1520 NAKLSL C	541
ME 1520-15 CA AT-L	68
ME 1520-15 CA C-L	68
ME 1520-18 A AT-L	66
ME 1520-18 A C-L	66
ME 1520-18 C AT-L	67
ME 1520-18 C C-L	67
ME 1520-O AT LNW	132
ME 1520-O C LNW	132
ME 1521 AT	528
ME 1521 C	528
ME 1521 F AT PL-1	543
ME 1521 F C PL-1	543
ME 1521 FKI AT PL-1	543
ME 1521 FKI C PL-1	543
ME 1521 FKL AT PL1L	543
ME 1521 FKL C PL1L	543
ME 1521 KI AT	528
ME 1521 KI C	528
ME 1521 KL AT	538
ME 1521 KL C	538
ME 1539-O AT LNW	133
ME 1539-O C LNW	133
ME 1539-OO AT LNW	133
ME 1539-OO C LNW	133
ME 1700 AT	231
ME 1700 C	231
ME 1700 P AT	233
ME 1700 P C	233
ME 1701 AT	235
ME 1701 C	235
ME 1701 P AT	237
ME 1701 P C	237
ME 1702 AT	239
ME 1702 C	239
ME 17180 AT	249
ME 17180 C	249
ME 17180 WU AT	251
ME 17180 WU C	251
ME 17181 AT	255
ME 17181 C	255
ME 17181 WU AT	257
ME 17181 WU C	257
ME 17280 AT	253
ME 17280 C	253
ME 17281 AT	259
ME 17281 C	259
ME 1751 BT AT	243
ME 1751 BT C	243
ME 1751 PBT AT	245
ME 1751 PBT C	245
ME 1940 AT	551
ME 1940 C	551
ME 1940 KO5 AT	687
ME 1940 KO5 C	687
ME 1941 AT	526
ME 1941 C	526
ME 1969 USB AT	74
ME 1969 USB C	74
ME 1969-1 NA WE AT	573
ME 1969-1 NA WE C	573
ME 1969-1 WE AT	571
ME 1969-1 WE C	571
ME 1969-15 NA WE AT	576
ME 1969-15 NA WE C	576
ME 1969-15 WE AT	574
ME 1969-15 WE C	574
ME 1969-2 NA WE AT	573
ME 1969-2 NA WE C	573
ME 1969-2 WE AT	571
ME 1969-2 WE C	571
ME 1969-25 NA WE AT	576
ME 1969-25 NA WE C	576
ME 1969-25 WE AT	574
ME 1969-25 WE C	574
ME 2178 AT	691

Ref.-no.	Page
ME 2178 C	691
ME 2178 ORTS AT	691
ME 2178 ORTS C	691
ME 2178 TS AT	691
ME 2178 TS C	691
ME 2401 TSA AT	673
ME 2401 TSA C	673
ME 2402 TSA AT	673
ME 2402 TSA C	673
ME 2402 TSAP AT	673
ME 2402 TSAP C	673
ME 2403 TSA AT	673
ME 2403 TSA C	673
ME 2404 TSA AT	673
ME 2404 TSA C	673
ME 2404 TSAP AT 14	674
ME 2404 TSAP AT 23	674
ME 2404 TSAP C 14	674
ME 2404 TSAP C 23	674
ME 2501 TSA AT	668
ME 2501 TSA C	668
ME 2502 TSA AT	668
ME 2502 TSA C	668
ME 2503 TSA AT	668
ME 2503 TSA C	668
ME 2504 TSA AT	668
ME 2504 TSA C	668
ME 2521 IN AT PL	547
ME 2521 IN C PL	547
ME 2521-15 AT	544
ME 2521-15 C	544
ME 2521-20 AT	544
ME 2521-20 C	544
ME 2539 LEDWB AT	135
ME 2539 LEDWB C	135
ME 2539 RGB AT	136
ME 2539 RGB C	136
ME 2539-2 LED RG AT	135
ME 2539-2 LED RG C	135
ME 2925 AT	526
ME 2925 C	526
ME 2928 AT	525
ME 2928 C	525
ME 2962-1 AT	564
ME 2962-1 C	564
ME 2962-2 AT	564
ME 2962-2 C	564
ME 2969 T AT	578
ME 2969 T C	578
ME 2969-1 NAUA AT	569
ME 2969-1 NAUA C	569
ME 2969-1 UA AT	568
ME 2969-1 UA C	568
ME 2969-2 NAUA AT	570
ME 2969-2 NAUA C	570
ME 2969-2 UA AT	570
ME 2969-2 UA C	570
ME 2981 AT	589
ME 2981 C	589
ME 2982 AT	589
ME 2982 C	589
ME 2983 AT	589
ME 2983 C	589
ME 2984 AT	589
ME 2984 C	589
ME 2985 AT	589
ME 2985 C	589
ME 2990 A AT	568
ME 2990 A C	568
ME 2990 AT	516
ME 2990 C	516
ME 2990 CARD AT	107
ME 2990 CARD C	107
ME 2990 K AT	519
ME 2990 K C	519
ME 2990 KL AT	29
ME 2990 KL C	29
ME 2990 KL LAN AT	121
ME 2990 KL LAN C	121

Ref.-no.	Page
ME 2990 KL SOC AT	120
ME 2990 KL SOC C	120
ME 2990 KL USB AT	75
ME 2990 KL USB C	75
ME 2990 KO5 AT	517
ME 2990 KO5 C	517
ME 2990 KO5 K AT	519
ME 2990 KO5 K C	519
ME 2990 KO5 L AT	519
ME 2990 KO5 L C	519
ME 2990 KO5 T AT	520
ME 2990 KO5 T C	520
ME 2990 L AT	518
ME 2990 L C	518
ME 2990 NA AT	517
ME 2990 NA C	517
ME 2990 SAT AT	565
ME 2990 SAT C	565
ME 2990 T AT	520
ME 2990 T C	520
ME 2990 TV AT	565
ME 2990 TV C	565
ME 2994 B AT	579
ME 2994 B C	579
ME 2995 AT	523
ME 2995 C	523
ME 2995 KO5 AT	523
ME 2995 KO5 C	523
ME 2995 P AT	524
ME 2995 P C	524
ME 3181 AT	688
ME 3181 C	688
ME 3181-1 AT	689
ME 3181-1 C	689
ME 3281 AT	689
ME 3281 C	689
ME 3281-1 AT	690
ME 3281-1 C	690
ME 3521-5 CN AT PL	546
ME 3521-5 CN C PL	546
ME 4093 TSA AT	676
ME 4093 TSA C	676
ME 50 NA AT-L	669
ME 50 NA C-L	669
ME 569-30 BF PL AT L	39
ME 569-30 BF PL C-L	39
ME 993 AT	525
ME 993 C	525
ME CARD RFID AT	109
ME CARD RFID C	109
ME CU KO5 D AT	111
ME CU KO5 D C	111
ME CU KO5 M 230 AT	115
ME CU KO5 M 230 C	115
ME CU KO5 M 24 AT	114
ME CU KO5 M 24 C	114
ME CU KO5 M AT	113
ME CU KO5 M C	113
ME RU KO5 D AT	110
ME RU KO5 D C	110
ME RU KO5 M AT	112
ME RU KO5 M C	112
MED 2981 AT	594
MED 2981 C	594
MED 2982 AT	594
MED 2982 C	594
MED 2983 AT	594
MED 2983 C	594
MK 100 RF	679
MK-POF-2UAE	36
MK-POF-UAE-REG	37
MM 100	697
MMD A 4521 WW	45
MMD LS 4521 WW	45
MS TR 231	368
MS TR 231 AL	424
MS TR 231 AL AN	562
MS TR 231 BB	480
MS TR 231 BR	480

Ref.-no.	Page
MS TR 231 CH	424
MS TR 231 ES	562
MS TR 231 GR	480
MS TR 231 LG	480
MS TR 231 MO	424
MS TR 231 PG	480
MS TR 231 SW	424
MS TR 231 WW	368
NRS AS 0834	96
NRS AS 0834 AT	97
NRS AS 0834 AT WW	97
NRS AS 0834 DZE	98
NRS AS 0834 DZE WW	98
NRS AS 0834 NT	97
NRS AS 0834 NT WW	97
NRS AS 0834 RM	97
NRS AS 0834 RM WW	97
NRS AS 0834 RT	99
NRS AS 0834 RT WW	99
NRS AS 0834 WW	96
NRS AS 0834 ZT	96
NRS AS 0834 ZT WW	96
NRS CD 0834 AT WW	97
NRS CD 0834 DZE WW	98
NRS CD 0834 NT WW	97
NRS CD 0834 RM WW	97
NRS CD 0834 RT WW	99
NRS CD 0834 WW	96
NRS CD 0834 ZT WW	96
NRS DZT 20 WW	98
NRS DZT AP WW	99
NRS LS 0834	96
NRS LS 0834 AT	97
NRS LS 0834 AT LG	97
NRS LS 0834 AT SW	97
NRS LS 0834 AT WW	97
NRS LS 0834 DZE	98
NRS LS 0834 DZE LG	98
NRS LS 0834 DZE SW	98
NRS LS 0834 DZE WW	98
NRS LS 0834 LG	96
NRS LS 0834 NT	97
NRS LS 0834 NT LG	97
NRS LS 0834 NT SW	97
NRS LS 0834 NT WW	97
NRS LS 0834 RM	97
NRS LS 0834 RM LG	97
NRS LS 0834 RM SW	97
NRS LS 0834 RM WW	97
NRS LS 0834 RT	99
NRS LS 0834 RT LG	99
NRS LS 0834 RT SW	99
NRS LS 0834 RT WW	99
NRS LS 0834 SW	96
NRS LS 0834 WW	96
NRS LS 0834 ZT	96
NRS LS 0834 ZT LG	96
NRS LS 0834 ZT SW	96
NRS LS 0834 ZT WW	96
NT 1220 REG VDC	188
NT 2405 VDC	118
NT 2415 REG VDC	119
NT-AUDIO	80
PA 981 G 125-0	615
PA 981 G 125-3	615
PA 982 G 125-0	615
PA 982 G 125-3	615
PA 983 G 125-0	615
PA 983 G 125-3	615
PCF 6042	21
PL 08 U	140
PL A DMS AL	141
PL A DMS SW	141
PL A DMS WW	141
PL AL DMS-L	141
PL ES DMS-L	141
PL F1 D05 AL-L	143
PL F1 D05 ES-L	143
PL F1 D05 SW	143

Ref.-no.	Page
PL F1 D05 WW	143
PL F1 WD05 AL-L	143
PL F1 WD05 ES-L	143
PL F1 WD05 SW	143
PL F1 WD05 WW	143
PL LS DMS SW	141
PL LS DMS WW	141
PL MAGNET 01	141
PL S1 D05 AL SW	142
PL S1 D05 SW SW	142
PL S1 D05 WW	142
PL S1 D05 WW SW	142
PL S1 WD05 AL SW	142
PL S1 WD05 SW SW	142
PL S1 WD05 WW	142
PL S1 WD05 WW SW	142
PM-KAPPE	260
PM-KAPPE AL	260
PM-KAPPE AL-1	688
PM-KAPPE-1	688
PMM-AP-SET-WW	687
PMM-UP-SET-WW	687
R 75	44
RA 23024 REGHE	696
RAD-ANT	79
RS 8 REGHE	282
RW 95	294
RWM 200 SW	90
RWM 200-G	90
RWM-MTS	90
SA 13	18
SC 0081 U	699
SC 5 SW	159
SCREW-30	21
SCREW-50	21
SCREW-70	21
SI 4 A AL	147
SI 4 A W	147
SI 4 A WW	147
SI 4 AD AL	147
SI 4 AD W	147
SI 4 AD WW	147
SI 46074 AD KIT	147
SI A6 A DC AL	157
SI A6 A DC ANM	157
SI A6 A DC CH	157
SI A6 A DC MO	157
SI A6 A DC SW	157
SI A6 A DC W	157
SI A6 A DC WW	157
SI A6 AL DC	158
SI A6 AL DC AN	158
SI A6 AL DC D	158
SI A6 CD DC W	157
SI A6 CD DC WW	157
SI A6 ES DC	158
SI A6 LS DC LG	158
SI A6 LS DC SW	158
SI A6 LS DC W	158
SI A6 LS DC WW	158
SI AI A 6 AL	149
SI AI A 6 ANM	149
SI AI A 6 CH	149
SI AI A 6 MO	149
SI AI A 6 SW	149
SI AI A 6 W	149
SI AI A 6 WW	149
SI AI AL 6	149
SI AI AL 6 AN	149
SI AI AL 6 D	149
SI AI CD 6 W	149
SI AI CD 6 WW	149
SI AI ES 6	149
SI AI LS 6 LG	149
SI AI LS 6 SW	149
SI AI LS 6 W	149
SI AI LS 6 WW	149
SI AM A 5 AL	152
SI AM A 5 ANM	152

Ref.-no.	Page
SI AM A 5 CH	152
SI AM A 5 MO	152
SI AM A 5 SW	152
SI AM A 5 W	152
SI AM A 5 WW	152
SI AM AL 5	152
SI AM AL 5 AN	152
SI AM AL 5 D	152
SI AM CD 5 W	152
SI AM CD 5 WW	152
SI AM ES 5	152
SI AM LS 5 LG	152
SI AM LS 5 SW	152
SI AM LS 5 W	152
SI AM LS 5 WW	152
SI AM-AK 20	156
SI AM-AK 70	156
SI AV 6 A	156
SI AV 6 CD	156
SI AV 6 LS	156
SI KB 2	158
SI KB 4	158
SI KB 6	158
SI TM A 5073	153
SI TM A 5093	154
SI TM CD 5073	153
SI TM CD 5093	154
SI TM LS 5073	153
SI TM LS 5093	154
SI V-RC	158
SI V6 A DC AL	157
SI V6 A DC ANM	157
SI V6 A DC CH	157
SI V6 A DC MO	157
SI V6 A DC SW	157
SI V6 A DC W	157
SI V6 A DC WW	157
SI V6 AL DC	158
SI V6 AL DC AN	158
SI V6 AL DC D	158
SI V6 CD DC W	157
SI V6 CD DC WW	157
SI V6 ES DC	158
SI V6 LS DC LG	158
SI V6 LS DC SW	158
SI V6 LS DC W	158
SI V6 LS DC WW	158
SI VI A 622 AL	151
SI VI A 622 ANM	151
SI VI A 622 CH	151
SI VI A 622 MO	151
SI VI A 622 SW	151
SI VI A 622 W	151
SI VI A 622 WW	151
SI VI AL 627	151
SI VI AL 627 AN	151
SI VI AL 627 D	151
SI VI CD 627 W	151
SI VI CD 627 WW	151
SI VI ES 627	151
SI VI LS 627 LG	151
SI VI LS 627 SW	151
SI VI LS 627 W	151
SI VI LS 627 WW	151
SI VM 22 A	155
SI VM 27 CD	155
SI VM 27 LS	155
SI VM-AK 22	156
SI VM-AK 70	156
SK 180-90 WW	262
SKS 1101-20	16
SKS 1101-20 WW	16
SKS 1101-4	16
SKS 1101-4 WW	16
SKS 11015	16
SKS 11015 WW	16
SKS 11120-20	16
SKS 11120-20 WW	16
SKS 1234.10	16

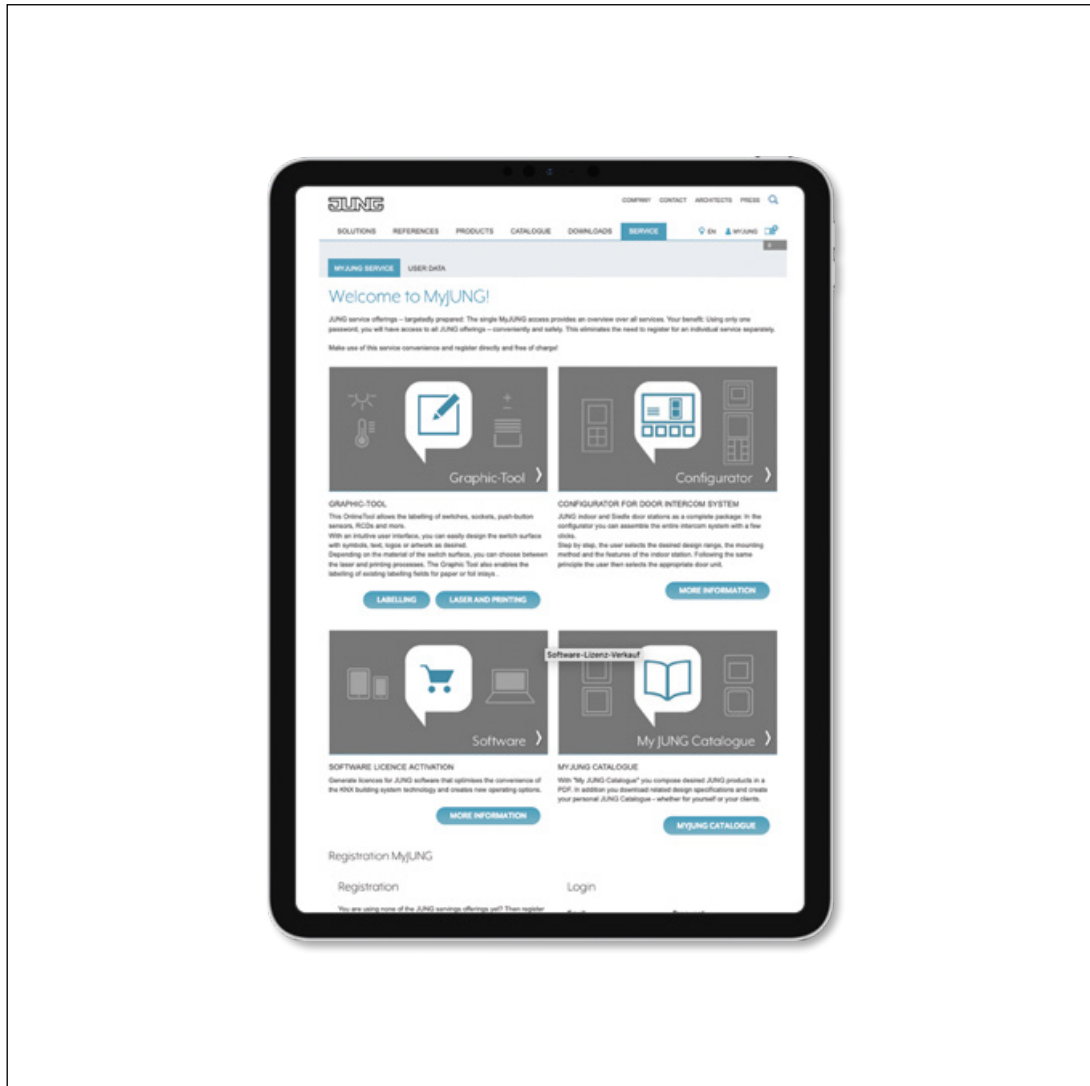
Ref.-no.	Page
SKS 1234.10 WW	16
SL 1540 GB, ..SW, ..WW	507
SL 1541 GB, ..SW, ..WW	506
SL 511 KI GB	507
SL 511 KI SW	507
SL 511 KI WW	507
SL 520 GB, ..SW, ..WW	506
SL 520 KI GB	506
SL 520 KI SW	506
SL 520 KI WW	506
SL 521 FKI GB	507
SL 521 FKI SW	507
SL 521 FKI WW	507
SL 521 GB, ..SW, ..WW	506
SL 521 KI GB	507
SL 521 KI SW	507
SL 521 KI WW	507
SL 561 B GB	510
SL 561 B SW	510
SL 561 B WW	510
SL 561 SAT GB	509
SL 561 SAT SW	509
SL 561 SAT WW	509
SL 561 TV GB	509
SL 561 TV SW	509
SL 561 TV WW	509
SL 562 GB, ..SW, ..WW	509
SL 569 T GB, ..GB, ..WW	74
SL 569-1 UA GB	510
SL 569-1 UA SW	510
SL 569-1 UA WW	510
SL 569-2 UA GB	510
SL 569-2 UA SW	510
SL 569-2 UA WW	510
SL 581 GB, ..SI, ..WW	511
SL 582 GB, ..SI, ..WW	511
SL 5820 GB	511
SL 5820 SI	511
SL 5820 WW	511
SL 583 GB, ..SI, ..WW	511
SL 5830 GB	511
SL 5830 SI	511
SL 5830 WW	511
SL 584 GB, ..SI, ..WW	511
SL 5840 GB	511
SL 5840 SI	511
SL 5840 WW	511
SL 585 GB, ..SI, ..WW	511
SL 5850 GB, ..SI, ..WW	511
SL 590 A GB	509
SL 590 A SW	509
SL 590 A WW	509
SL 590 CARD GB	107
SL 590 CARD SW	107
SL 590 CARD WW	107
SL 590 GB, ..SW, ..WW	504
SL 590 K GB	504
SL 590 K SW	504
SL 590 K WW	504
SL 590 KL GB	28
SL 590 KL SW	28
SL 590 KL WW	28
SL 590 KO5 GB	504
SL 590 KO5 SW	504
SL 590 KO5 WW	504
SL 590 L GB	504
SL 590 L SW	504
SL 590 L WW	504
SL 590 T GB	504
SL 590 T SW	504
SL 590 T WW	504
SL 595 GB, ..SW, ..WW	505
SL 595 KO5 GB	505
SL 595 KO5 SW	505
SL 595 KO5 WW	505
SL 595 P GB	505
SL 595 P SW	505
SL 595 P WW	505
SL 90 HP	504

Ref.-no.	Page
SL 95 HP	505
SLA 2 AN	46
SLA 2 WW	46
SM 1608	286
SNT 105 F	278
SNT 105-35	278
SNT 150	279
SNT 200	279
SNT 40	278
SNT 70 Q	278
SO 7522 EINS	122
SO A 7522 AL PL	122
SO A 7522 BF SW PL	122
SO A 7522 BF WW PL	122
SO A 7522 CH PL	122
SO A 7522 MO PL	122
SO A 7522 SW PL	122
SO A 7522 SWM PL	122
SO A 7522 WW PL	122
SO A 7522 WWM PL	122
SO AL 7522 D PL	122
SO AL 7522 PL	122
SO AN 7522 PL	122
SO ES 7522 PL	122
SO GCR 7522 PL	122
SO GO 7522 PL	122
SO LS 7522 LG PL	122
SO LS 7522 PL	122
SO LS 7522 SW PL	122
SO LS 7522 SWM PL	122
SO LS 7522 WW PL	122
SO LS 7522 WWM PL	122
SO ME 7522 AT PL	122
SO ME 7522 C PL	122
SP 0081 U	699
ST NT 12 VDC	198
SV 539 LED	134
SV 539-948 LED	134
SV-S-INT-SC 5 SW	700
SV-S-SC 5 SW	700
SV-SERVER	700
SV-SERVER-INT	700
SV-SERVER-L	700
TR A 231	303
TR A 231 AL	303
TR A 231 ANM	303
TR A 231 CH	303
TR A 231 MO	303
TR A 231 SW	303
TR A 231 SWM	303
TR A 231 WW	303
TR A 231 WWM	303
TR A 236	306
TR A 236 AL	306
TR A 236 ANM	306
TR A 236 CH	306
TR A 236 MO	306
TR A 236 SW	306
TR A 236 SWM	306
TR A 236 WW	306
TR A 236 WWM	306
TR A 241	304
TR A 241 AL	304
TR A 241 ANM	304
TR A 241 CH	304
TR A 241 MO	304
TR A 241 SW	304
TR A 241 WW	304
TR A 246	308
TR A 246 AL	308
TR A 246 ANM	308
TR A 246 CH	308
TR A 246 MO	308
TR A 246 SW	308
TR A 246 WW	308
TR AL 231	304
TR AL 231 AN	304
TR AL 231 D	304
TR AL 236	307

Ref.-no.	Page
TR AL 236 AN	307
TR AL 236 D	307
TR AL 241	305
TR AL 241 AN	305
TR AL 241 D	305
TR AL 246	309
TR AL 246 AN	309
TR AL 246 D	309
TR CD 231	303
TR CD 231 BR	303
TR CD 231 GB, ..PT	303
TR CD 231 GR	303
TR CD 231 LG	303
TR CD 231 SW	303
TR CD 231 WW	303
TR CD 236	306
TR CD 236 BR	306
TR CD 236 GB, ..PT	306
TR CD 236 GR	306
TR CD 236 LG	306
TR CD 236 SW	306
TR CD 236 WW	306
TR CD 241	305
TR CD 241 BR	305
TR CD 241 GB, ..PT	305
TR CD 241 GR	305
TR CD 241 LG	305
TR CD 241 SW	305
TR CD 241 WW	305
TR CD 246	308
TR CD 246 BR	308
TR CD 246 GB, ..PT	308
TR CD 246 GR	308
TR CD 246 LG	308
TR CD 246 SW	308
TR CD 246 WW	308
TR D A 1790 SW	265
TR D A 1790 WW	265
TR D CD 1790 SW	265
TR D CD 1790 WW	265
TR D LS 1790 SW	265
TR D LS 1790 WW	265
TR ES 231	304
TR ES 236	307
TR ES 241	305
TR ES 246	309
TR GCR 231	304
TR GCR 236	307
TR GCR 241	305
TR GCR 246	309
TR GO 231	304
TR GO 236	307
TR GO 241	305
TR GO 246	309
TR LS 231	304
TR LS 231 GGO	304
TR LS 231 LG	304
TR LS 231 SW	304
TR LS 231 SWM	304
TR LS 231 WW	304
TR LS 231 WWM	304
TR LS 236	307
TR LS 236 GGO	307
TR LS 236 LG	307
TR LS 236 SW	307
TR LS 236 SWM	307
TR LS 236 WW	307
TR LS 236 WWM	307
TR LS 241	305
TR LS 241 GGO	305
TR LS 241 LG	305
TR LS 241 SW	305
TR LS 241 WW	305
TR LS 246	309
TR LS 246 GGO	309
TR LS 246 LG	309
TR LS 246 SW	309
TR LS 246 WW	309
TR ME 231 AT	304

Ref.-no.	Page
TR ME 231 C	304
TR ME 236 AT	307
TR ME 236 C	307
TR ME 241 AT	305
TR ME 241 C	305
TR ME 246 AT	309
TR ME 246 C	309
TR SL 231 GB	303
TR SL 231 SW	303
TR SL 231 WW	303
TR SL 236 GB	307
TR SL 236 SW	307
TR SL 236 WW	307
TR SL 241 GB	305
TR SL 241 SW	305
TR SL 241 WW	305
TR SL 246 GB	309
TR SL 246 SW	309
TR SL 246 WW	309
TR-S	290
TR-S REG	290
TR-SUP	290
TRD A 523028 SW	124
TRD A 523028 WW	124
TRD A 523048 SW	126
TRD A 523048 WW	126
TRD A 5248 SW	128
TRD A 5248 WW	128
TRD A-DISP SW	127
TRD A-DISP WW	127
TRD LS 923028 SW	124
TRD LS 923028 WW	124
TRD LS 923048 SW	126
TRD LS 923048 WW	126
TRD LS 9248 SW	128
TRD LS 9248 WW	128
TRD LS-DISP SW	127
TRD LS-DISP WW	127
TRD-NT 2302	125
TRD-NT 2304	127
TVA 230 NC WW	312
UAE 2X8 UPO	32
UAE 8 UPO	32
UAE 8 UPOK6	33
UAE 8-8 UPO	32
UAE 8-8 UPO K6 US	32
UAE 8-8 UPOK6	33
UD 1755 REG	276
UDS 4 REGHE	284
ULZ 1755 REG	277
UMA-CAT6A	34
UMA-MA2	34
UMB-CAT6A	34
USB 15 CA SW	72
USB 15 CA WW	72
USB 2130 RF	679
W 110.120 A WW	367
W 110.120-20 A WW	367
W 110.240 A WW	367
W 110.360 A WW	367
W 110.720 A WW	367
W 11015 A WW	367
W 11030 A WW	367
W 11030-20 A WW	367
W 11060 A WW	367
W 220 WW	93
W-KEIL	18
WLAN-AC-POE-UAE	35
WLAN-AC-UAE	35
WS 10 D	697
WS 10 H	697
WS 10 KS	293
WS 10 T	697
WS 10 W	697
WSK 100 REG	291
WSSV 10	292
Z 506 NUZ VWW	461
Z 506 NUZV	461
ZS-34 KO5S	18

MyJUNG



The JUNG service packages are prepared specifically for you: All services can be found in one place at the central MyJUNG access point. Your benefit: Using only one password, you will have access to all JUNG offerings – conveniently and safely.

JUNG Brand Store London



Experience aesthetics in the heart of Clerkenwell, London – an architectural melting pot. Roman heritage, Georgian house fronts, modern skyscrapers define the cityscape just like Victorian bay and sash windows.



Architecture icons like Lord Norman Foster and Zaha Hadid set up their offices here. The London architecture scene is characterised by innovation and internationality – a familiar setting for JUNG. In the creative district of Clerkenwell the German premium

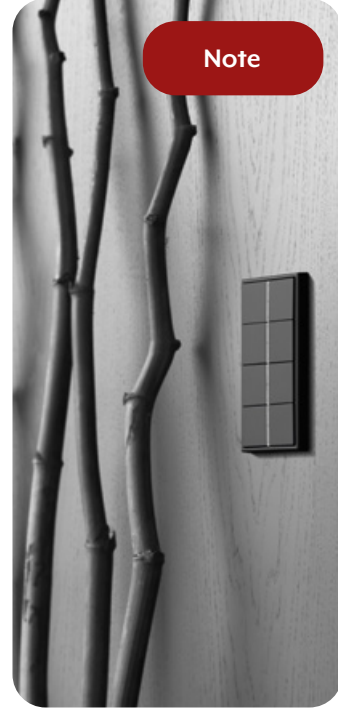
manufacturer of modern building technology opened its first showroom in the United Kingdom. JUNG's design apartment shows its high-quality products and individual solutions to potential customers.

JUNG UK, BRANDSTORE LONDON

6/7 Albemarle Way
Farringdon
London EC1V 4JB

JUNG.DE/UK

Follow the inspiration



Follow JUNG on Pinterest and Instagram if you are always looking for new ideas and inspiration. On these channels you will discover inspiring designs and fascinating technology staged in high quality.



PINTEREST



INSTAGRAM











ALBRECHT JUNG GMBH & CO. KG

Volmestraße 1

58579 Schalksmühle

Germany

Phone +49 2355 806-0

Fax +49 2355 806-204

international@jung.de

For sales contacts in your country see:

www.jung-group.com/contact

JUNG-GROUP.COM