

JUNG

Report



EN 20



MADE IN GERMANY SINCE 1912



KNX PUSH-BUTTON SENSOR F 10



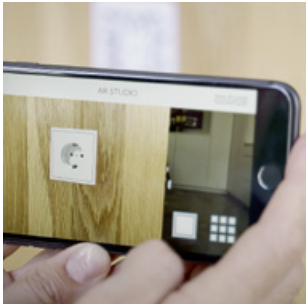
Matt finish
Switch in matt graphite black
and matt snow white



USB socket
SCHUKO® sockets
with JUNG Quick Charge



**KNX push-button
sensor F 10**
Classic design meets intelli-
gent operating concept



AR-Studio
The new app for
Augmented Planning

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Made for you. Since 1912.

Intelligent, networked, sustainable and secure – rooms and applications are changing faster than ever before. For more than 100 years, JUNG and its products have headed and reflected all changes in the industry.

Innovation, quality and design are the guiding principles for the developments of JUNG. As a leading supplier of modern building technology, we are continuously researching new forms of electrical engineering and developing new possibilities for convenient switching and building control. We are proud to present our latest product developments in this report: As founding member of the KNX Association, JUNG has been supporting the development of smart technologies from the beginning. Using intelligent voice control and partnering with Friends of Hue and Conrad Connect, JUNG now combines the world of the Internet of Things with future-proof build-

ing technology. With KNX Secure, JUNG provides security technology for networked buildings at banking standard. JUNG is also a pioneer in the field of BIM-supported building planning and provides its customers with BIM objects for download free of charge. At the same time, we are always succeeding in new developments in the field of classic electrical installation, such as the modern LS 1912 toggle lever with indicator lamp or the new matt snow white and matt graphite black lacquering for the JUNG LS and A ranges. We continue to be driven by our partners in the electrical trade and our customers worldwide: Made for you. Since 1912.

Matt graphite black



Matt snow white



The matt colours graphite black and snow white enhance the JUNG design with their unobtrusive and simple elegance.

LS 990 in matt snow white



SCHUKO® socket



Rotary dimmer



2-gang switch



Push-button sensor F 50



LS 990 in a puristic matt snow white: The lacquered switches, sockets and push-button sensors can be ideally integrated into various living styles and complement the classic with a variant with a special feel.



LS 990 in matt graphite black



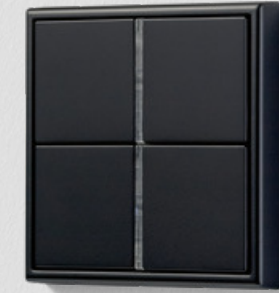
SCHUKO® socket



Rotary dimmer



Push-button sensor F 50

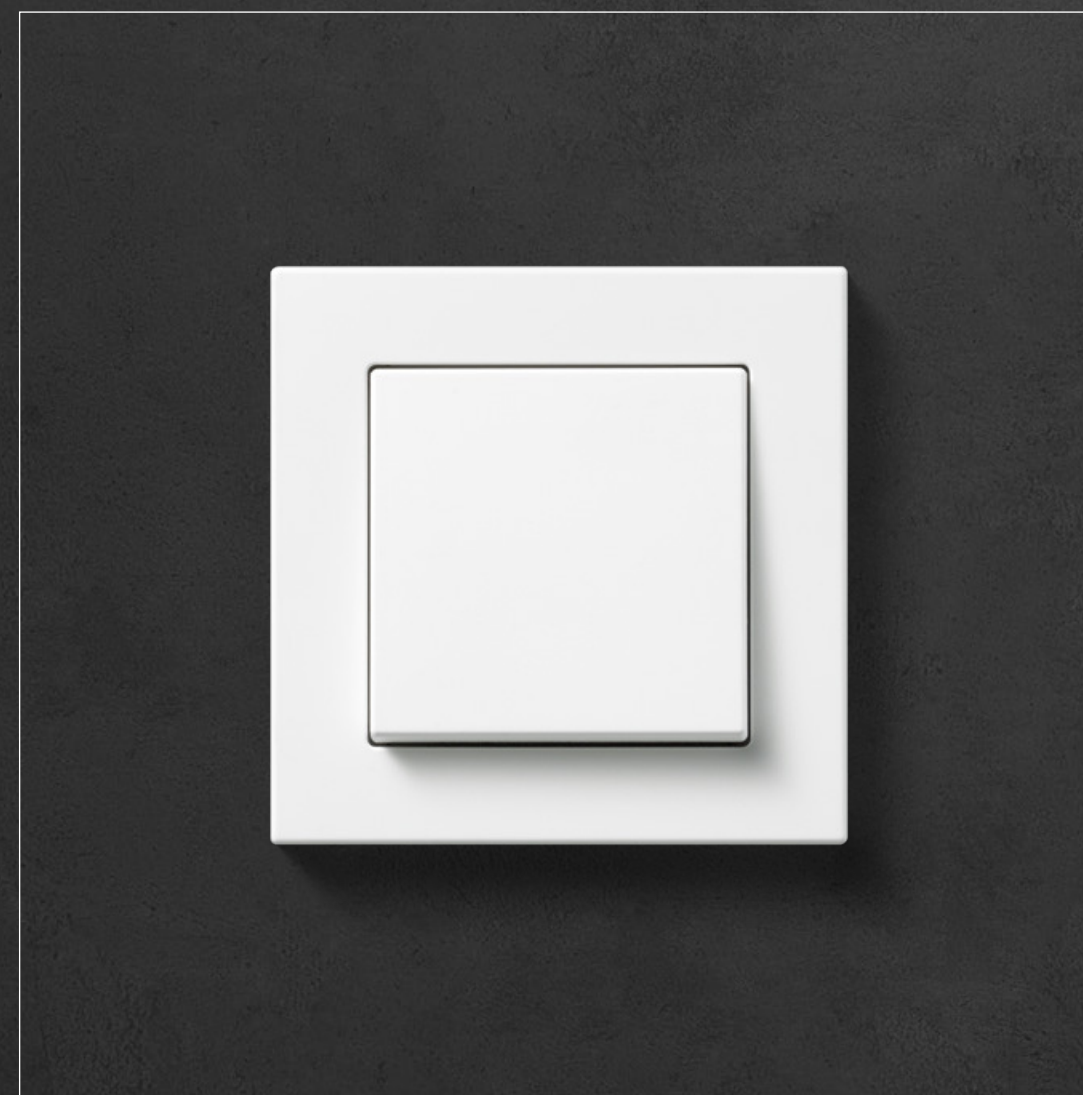


Push-button sensor F 40

Timeless and perfect in form: LS 990 with the elegant matt graphite black lacquering provides a high-contrast effect in interior design. The elegant lacquering additionally emphasises the effect of the classic range.

Expected to be available in the 3rd quarter of 2020

A 550 in matt snow white



The unobtrusive matt snow white emphasises the clear design language of the A 550. The switch range has a striking and minimalist design. A 550 is of course also available in matt graphite black.



A FLOW in matt graphite black



SCHUKO® socket



2-gang push-button sensor F 40



Rocker with SCHUKO® socket

Matt graphite black is also impressive for A FLOW. The new lacquering emphasises the special switching experience. More than 300 applications are possible thanks to the wide range of functions. The A FLOW range is also available in matt snow white.

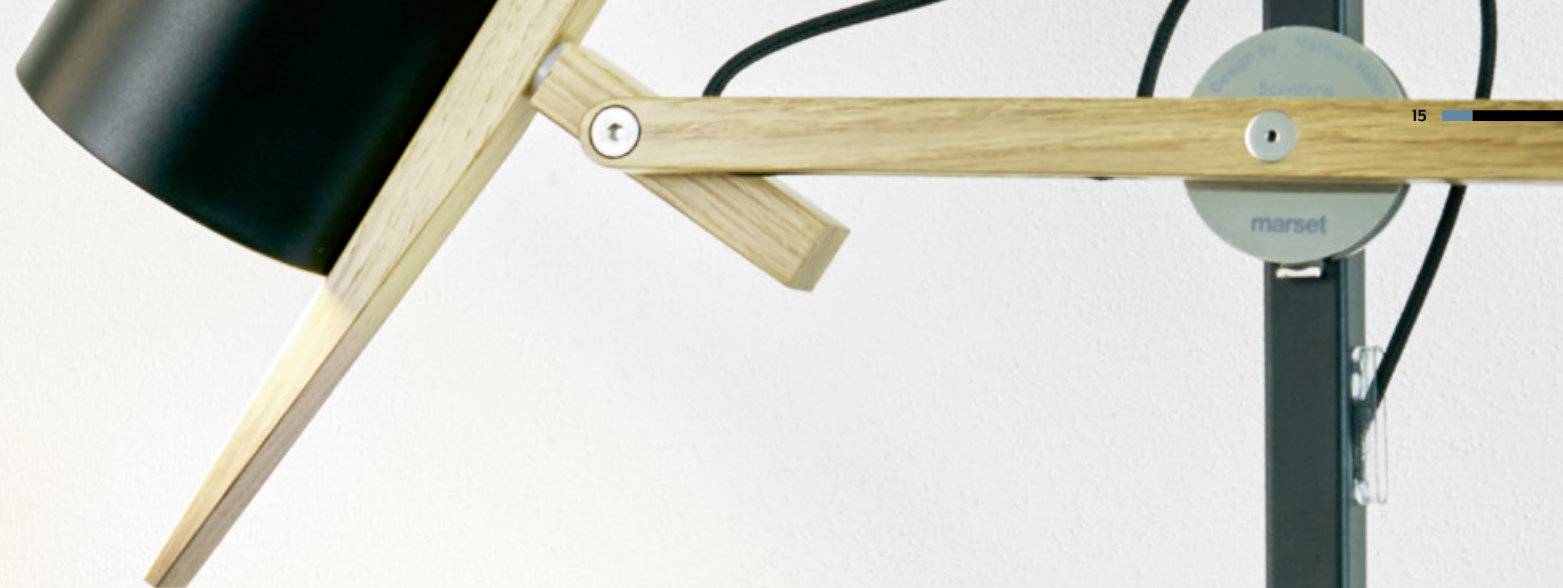
Expected to be available in the 3rd quarter of 2020

LS1912[®]



Toggle lever with LED

JUNG has consistently further developed the puristic LS 1912 switch and added an LED to the toggle lever: It signals the switching state or provides orientation.

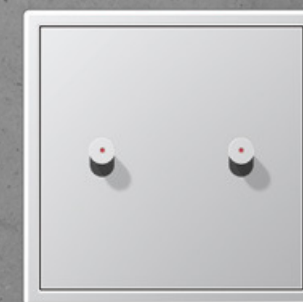




LS 1912 with indicator lamp



LS 1912 in aluminium with indicator lamp and cylindrical toggle lever



LS 1912 in aluminium with indicator lamp and double cylindrical toggle lever



LS 1912 in chrome with indicator lamp and cubic toggle lever



LS 1912 in aluminium with indicator lamp and double conical toggle lever

The future must have a past in order to transfer tradition into a contemporary form that can be experienced. JUNG consistently continues this approach with the LS 1912: The stylish toggle lever, which JUNG developed in the style of its early years, is now available with an indicator lamp. The LED is located in

the toggle lever and enables various possible applications. For example, it signals whether the light in the guest WC is switched on or provides orientation. LS 1912 is of course compatible with modern smart home technology, such as JUNG eNet SMART HOME, KNX or LB Management.

Expected to be available from July 2020

SCHUKO® sockets with USB ports

Always find the right connection with JUNG:
The SCHUKO® sockets with integrated USB ports
“Made in Germany” provide various options for
charging different devices.



SCHUKO® sockets with JUNG Quick Charge



Significantly reduced charging times: The new JUNG SCHUKO® sockets with USB port and Quick Charge recharge every battery quickly. The output of 18 watts makes it possible.

Ideal for cafés, hairdressing salons or of course in your own four walls: The new JUNG SCHUKO® sockets with USB are ideal wherever new energy is needed quickly for the smart-phone. The JUNG Quick Charge recharges

mobile devices while you relax with a cup of coffee. An iPhone 11, for example, is 100 percent charged in just 105 minutes. The SCHUKO® sockets with USB also of course have certified safety and are “Made in Germany”.

THESE STANDARDS ARE SUPPORTED:

- Apple 2.4 A
- Samsung Adaptive Fast Charging
- Qualcomm Quick Charge 3.0
- USB Battery Charging
- USB Power Delivery



SCHUKO® SOCKET



with USB-A in LS 990 in black

SCHUKO® SOCKET



with USB-C in LS 990 in white

FRENCH / BELGIAN SOCKET



with USB-A in LS 990 in white

FRENCH / BELGIAN SOCKET



with USB-C in LS 990 in black

The SCHUKO® sockets with USB and JUNG Quick Charge are available in the A and LS ranges. They are based on a SCHUKO® socket 16 A 250 V ~ with integrated child protection or a French / Belgian system socket with inte-

grated child protection. USB ports are optionally available in type A or type C. The sockets are ideal for retrofitting. The mounting requires a deep wall box.

Expected to be available from May 2020

Matt snow white and matt graphite black are expected to be available from the 3rd quarter of 2020

SCHUKO® sockets with USB types A and C

SCHUKO® SOCKET



with USB-A+C in LS 990 in white

SCHUKO® SOCKET



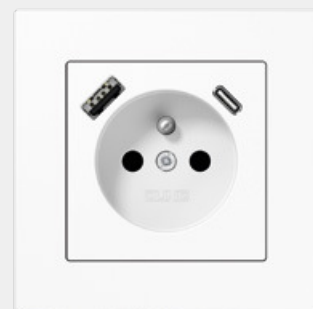
with USB-A+C in A FLOW in aluminium

FRENCH / BELGIAN SOCKET



with USB-A+C in A CREATION in white
with glass frame

FRENCH / BELGIAN SOCKET



with USB-A+C in A 550 in white

The flexible combination of SCHUKO® socket and USB ports (type A and type C) enables space-saving electrical installation: You charge the smartphone without having to occupy the socket with an additional charger.

Of course, "Made in Germany" and certified security. If several consumers are connected, the power is divided equally per USB port. The JUNG SCHUKO® sockets with USB are the optimum 2-in-1 solution for this purpose.

Expected to be available from May 2020

Matt snow white and matt graphite black are expected to be available from the 3rd quarter of 2020



USB charger with types A and C ports

The JUNG USB chargers with USB-A ports are now available in combination with a USB-C port. This enables flexible connection options with an electrical output of 15 watts.



USB charger with USB-A+C
in LS 990 in white



USB charger with USB-A+C
in A 550 in black

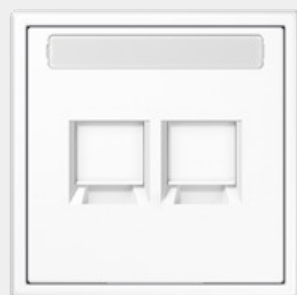
Smartphone, Bluetooth headphones and also a Smartwatch: Many everyday things need energy. The JUNG USB chargers provide exactly this flexibility and integrate themselves

ideally into the electrical installation. The new snap-on covers enable a flat and harmonious design.

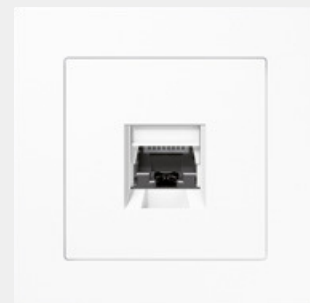
Matt snow white and matt graphite black are expected to be available from the 3rd quarter 2020
All other colours are already available



Solid snap-on cover



Snap-on cover for modular jack with two jack sockets and labelling field in LS 990



Snap-on cover for modular jack with one jack socket in A 550



The new stable and secure snap-on covers are quickly installed thanks to the mounting plate.

With the new snap-on covers, the visible screws disappear behind the attachment: While the combination head screws screw the retaining plate stably and securely into the flush-mounted insert, the cover above it is simply snapped into place. The result is a

particularly purist, reduced and uniform appearance, which is simultaneously firmly and securely anchored in the wall. The new snap-on covers are available for the JUNG A and LS ranges and are compatible with modular jack and USB sockets.

Expected to be available from April 2020

Matt snow white and matt graphite black are expected to be available from the 3rd quarter of 2020



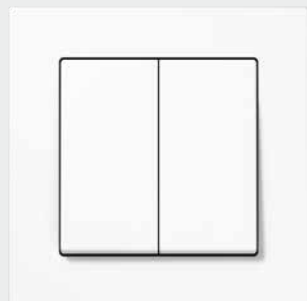
Lighting mood

JUNG enables Philips Hue to be operated via light switches.
The new wall-mounted transmitters guarantee simple control
and always create the right lighting mood.

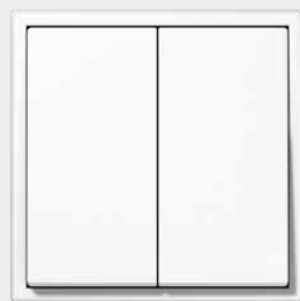


JUNG Friends of Hue

Wall-mounted transmitter without batteries.



Wall-mounted transmitter
in A 550 in white.



Wall-mounted transmitter
in LS 990 in white.

The new JUNG Friends of Hue wall-mounted transmitters dim the lamps of Philips Hue and switch light scenes at the press of a button. And that completely without batteries! The wall-mounted radio transmitters are available in the JUNG AS 550 and LS 990 ranges.



JUNG FRIENDS OF HUE WALL-MOUNTED TRANSMITTERS

The new transmitters with the ZigBee radio standard are official partner products of Philips Friends of Hue. They blend seamlessly into the lighting system.

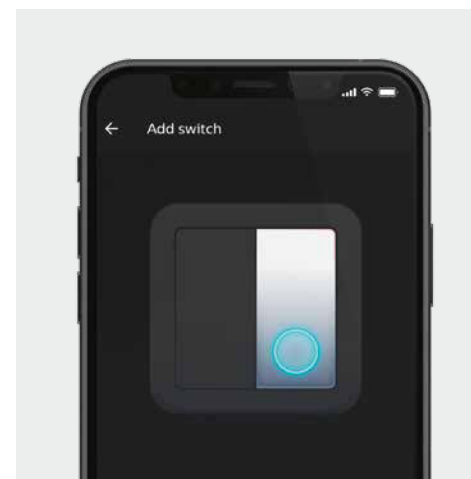


CONTROL WITHOUT BATTERIES

Battery-free by EnOcean – no external power supply is necessary. The switches with EnOcean technology generate the required energy for the switching pulse kinetically.

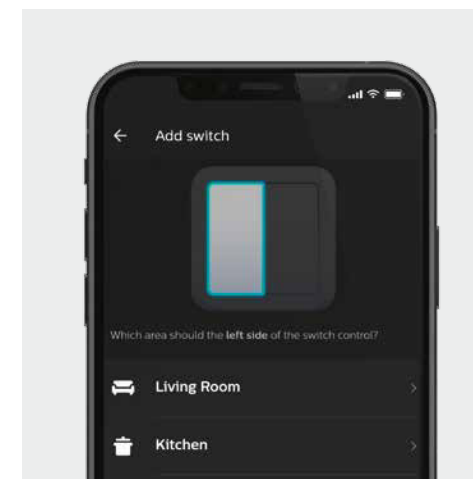
Expected to be available from August 2020

Link the new transmitters in the Philips Hue app



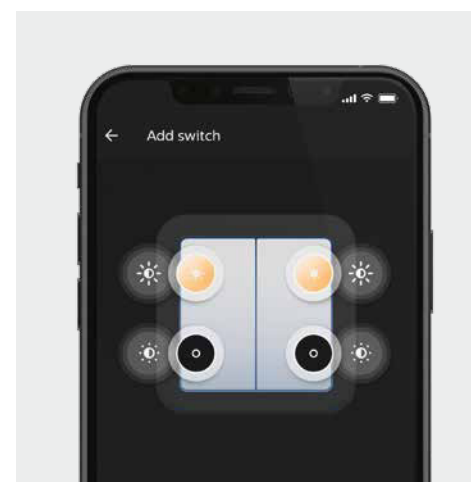
1. CONNECT TRANSMITTER

Pressing and holding the button on the bottom right starts the synchronisation. The wall transmitter then connects to the Philips Hue Bridge.



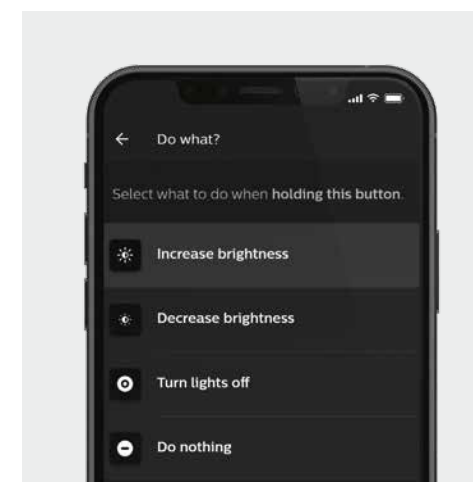
2. ASSIGN ROOM

After integration, the wall-mounted transmitter must be assigned to the room in which Philips Hue lamps should be switched.



3. DETERMINE FUNCTION

After the wall transmitter has been linked to the lamps, various functions can be individually assigned to the buttons.

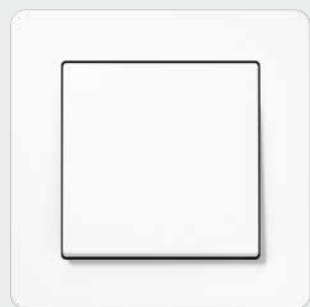


4. ADD ACCESSORIES

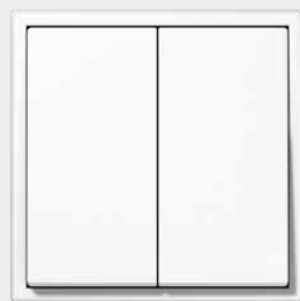
In addition to switching on or dimming light sources, additional options can be added to complete the configuration.

JUNG Bluetooth Low Energy

Wall-mounted transmitter without batteries.



Wall-mounted transmitter 1-gang
in A FLOW in white



Wall-mounted transmitter 2-gang
in LS 990 in white

The new JUNG wall transmitters switch without batteries and work with Bluetooth Low Energy. They are available in the JUNG A and LS ranges. The wall transmitters operate lamps and actuators from numerous manufacturers in compatible Smart Home systems.



BLUETOOTH LOW ENERGY

With the Bluetooth Low Energy wall transmitters, users control lamps and actuators from many manufacturers that communicate with each other via this wireless standard.

A SMALL SELECTION OF SUPPORTED PROVIDERS:

- Blu2Light
- Häfele Connect
- WiSilica
- XICATO Controls
- Casambi
- Wirepas
- WiZ Pro

Expected to be available from July 2020





JUNG meets IoT

As co-initiator of eNet SMART HOME, JUNG has been supporting the development of smart technology from the very beginning. JUNG now consistently combines modern building installations with the world of the Internet of Things.

eNet SMART HOME and Conrad Connect



eNet F 40 WALL TRANSMITTER

Entertainment, health, weather, security and much more: Conrad Connect links numerous smart technologies from more than seventy manufacturers and suppliers. The platform networks devices of the Internet of Things with each other and across borders. JUNG eNet SMART HOME is now also a part of Conrad Connect: Clever automation enables intelligently networked projects, within

which gadgets from for example Netatmo, Amazon, Ikea or apps like IFTTT can be linked. The dashboard of the Conrad Connect user account clearly displays all information. The community's many project templates provide additional inspiration. The Smart Home becomes even more intelligent with eNet SMART HOME and Conrad Connect.

Expected to be available from May 2020



Conrad Connect links intelligent devices, apps and services of different manufacturers with JUNG eNet SMART HOME. In this way, even more extensive networking and processes in the Smart Home become possible.





Automate numerous smart functions

BEFORE STARTING: SET UP CONRAD CONNECT

All that is needed for the IoT platform is a user account at Conrad Connect. After logging in, users select a product and follow the instructions for the integration of the desired device. In the “Projects” category, they then link the desired products using for example an if-then rule. In this way, the different technologies are switched in intelligently linked dependencies after a few clicks.

Project examples for Conrad Connect

RETRACT THE AWNING DURING A STORM

Conrad Connect provides both a location-dependent weather service as well as the link to weather sensors. If a weather service or a sensor reports strong wind, the eNet actuator can retract the awning to protect it from storm damage.

POSITION-DEPENDENT WELCOME MODE

With Conrad Connect, eNet owner can use the location-dependent mode of the tado heating control for a “coming home action”. This turns the heating on and also activates a welcome light and the Sonos music system.

E-MAIL FOR MOVEMENT IN THE GARDEN

In combination with Conrad Connect, the security in the eNet SMART HOME also increases. The residents are not at home and the Steinel eNet motion detector sensIQ in the garden is triggered. In this case, Conrad Connect sends an e-mail to specified recipients, who can check that everything is in order at home.

START EVENING MOOD VIA eNet WALL TRANSMITTER

Dimming the living room light and setting the optimum comfort temperature at the touch of a button is no problem in the eNet SMART HOME. With Conrad Connect, a Sonos playlist now starts and the decorative lamps of Philips Hue spread a cosy coloured light in addition.

eNet SMART HOME 2.2

JUNG is constantly expanding eNet SMART HOME and regularly implements new functions. In addition, “eNet SMART HOME remote” remote access will be permanently available free of charge from April 2020.

eNet PRESENCE DETECTOR

This movement detector has a 360-degrees lens. As soon as it registers any movement, it transmits the pulse to an eNet receiver. This capture can be linked to numerous actions via an if-then rule in the eNet SMART HOME app or Conrad Connect.



eNet RADIO CENTRE PLATE

With the eNet radio centre plate, Smart Home residents integrate the control of JUNG LB Management shutters, blinds and luminaires. This makes existing inserts smart: In order to also switch LB Management in eNet SMART HOME, only the attachments of the modular system have to be replaced with the eNet radio centre plate. Users already control the lighting conveniently via eNet SMART HOME app or push-buttons.



eNet 2.2: NUMEROUS IMPROVEMENTS

The integration of the new devices was accompanied by the release of server version 2.2. Among other things, it improves the status communication between app and server. Now it is possible to connect the app manually to the server in the local network by entering the IP address. In addition, the landscape mode ensures better operation via tablet version.



Already available



My Smart Home
now listens to me!

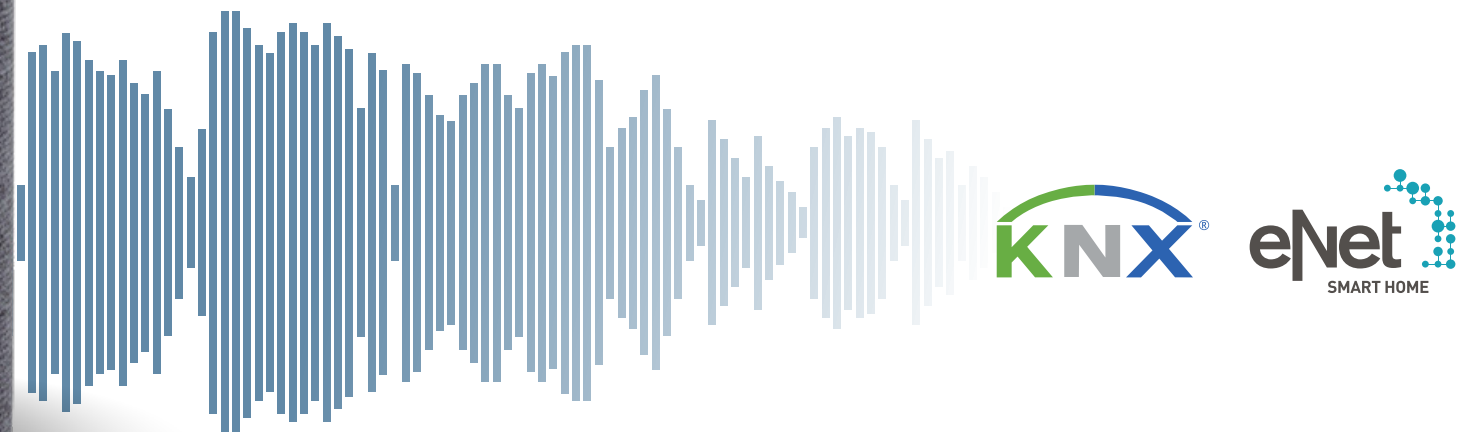


Works with **alexa**

Alexa and Google Assistant move into the JUNG Smart Home:
The intelligent linking of smart technology with modern voice control provides even more comfort.

JUNG combines modern and future-proof Smart Home technology with particularly convenient control. The JUNG Smart Visu Server, Visu Pro Server and the radio-based eNet SMART HOME Server enable the on-call control of all subsystems. All residents need is one of these JUNG products and a Smart

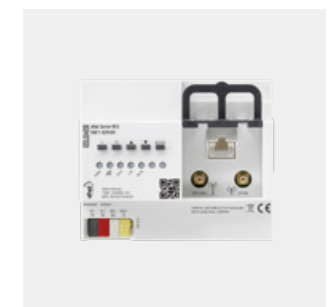
Speaker from Google or Amazon: Once integrated, Alexa or the Google Assistant are available for voice control. "Alexa, lower the blinds in the living room" or "OK, Google! Play my favourite music in the kitchen" are only two of numerous voice control possibilities in the JUNG Smart Home.



JUNG Smart Visu Server



JUNG Visu Pro Server



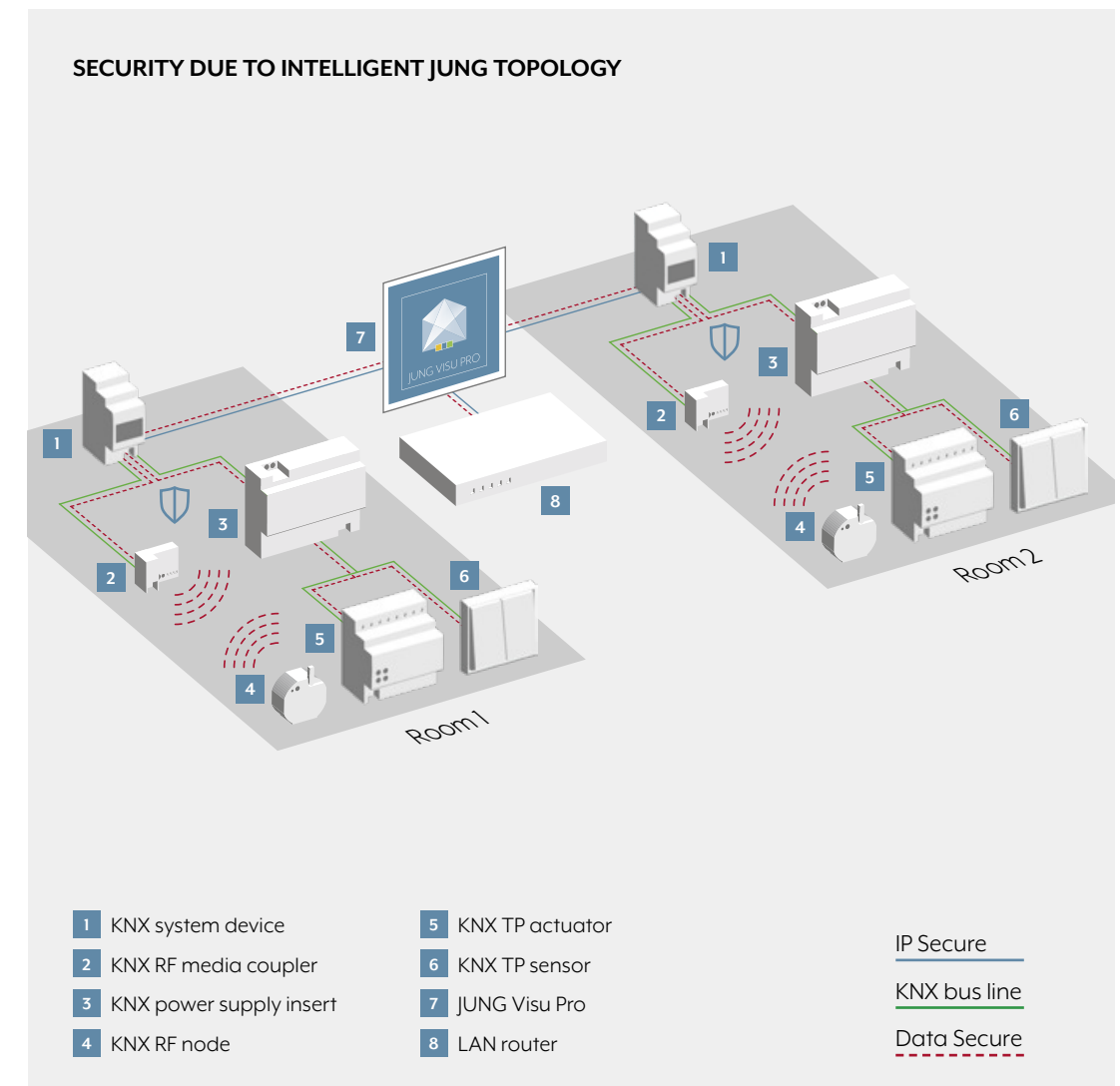
eNet Server

Already available via the server update

KNX Secure: security in the field bus and IP network

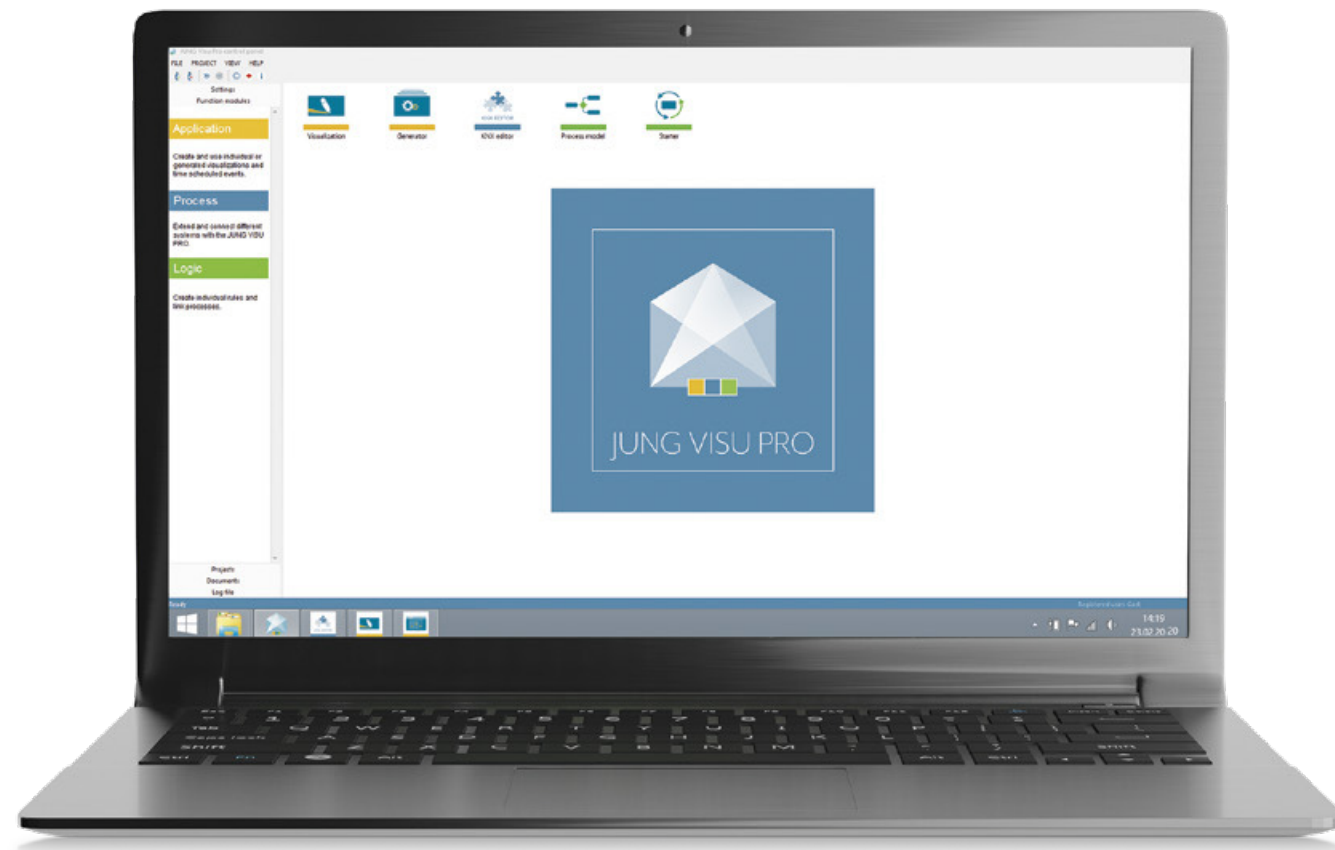


The discussion about data protection also does not stop at a smart building. Because everything you can operate digitally yourself, can theoretically also be controlled by unauthorised third parties. This is where JUNG KNX Secure comes in and provides effective protection thanks to encryption with the AES128 algorithm.



KNX Secure provides double protection: KNX IP Secure encrypts the transmission at network layer. It authenticates selected telegrams regardless of the medium and encrypts the transmitted data with the AES128 algorithm. Thus the communication between sensor and actuator in the IP network cannot be interpreted or manipulated. The visual-

isation (e.g. using the JUNG Visu Pro Server) is therefore also secure. KNX Data Secure also encrypts and authenticates the data on the bus line (twisted pair) or via wireless communication (RF). This reliably prevents attack scenarios such as telegram recording, telegram repetitions or modification (man-in-the-middle attack).



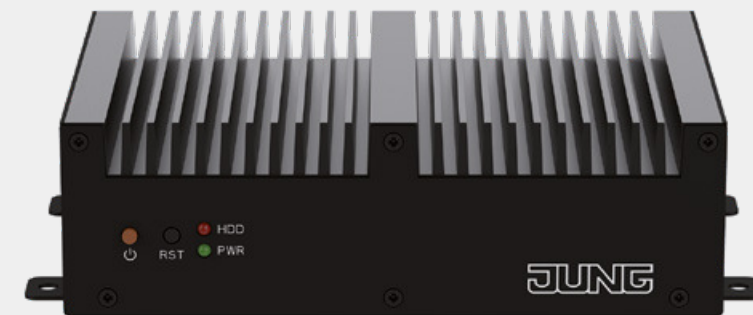
JUNG Visu Pro Server with KNX Secure

Control of the entire building automation: The JUNG Visu Pro Server and the software of the same name are ideally suitable for challenging applications in the smart building. Version 4.5 fully supports KNX Secure and also optimises many other areas.

JUNG secures the visualisation in the smart building: The JUNG Visu Pro Server encrypts the communication in the network with KNX IP Secure and KNX Data Secure. This means that the telegrams in the entire building are safe

from manipulation and cannot be intercepted. JUNG also optimises the voice control: With the update to version 4.5 of JUNG Visu Pro, in addition to Amazon Alexa, Google Assistant is now also fully available as a voice service.

JUNG VISU PRO SERVER



ENCRYPTED

The JUNG Visu Pro Server and the Visu Pro Software work with KNX Secure. JUNG thus encrypts the communication in the building. The data exchange of server and clients, e.g. Smart Control or tablet is secure: The communication is performed using HTTPS – the information can thus not be read by third parties.

OPTIMISED

A strength of the Visu Pro Server is the remote access. JUNG has also improved this: Instead of the previous subscription model, only a one-time licensing is now required. Simply purchase remote access in the MyJUNG portal and access the smart building unlimited while on the move. The remote access does not require any additional devices. This also applies for the Smart Visu Server.

UPDATED

JUNG also continuously improves existing functions. Version 4.5 extends the range of functions by an astro function, improves the handling in the software and brings numerous other optimisations. JUNG has also integrated a new online weather service in the JUNG Visu Pro Server and in the JUNG Visu Pro Software.

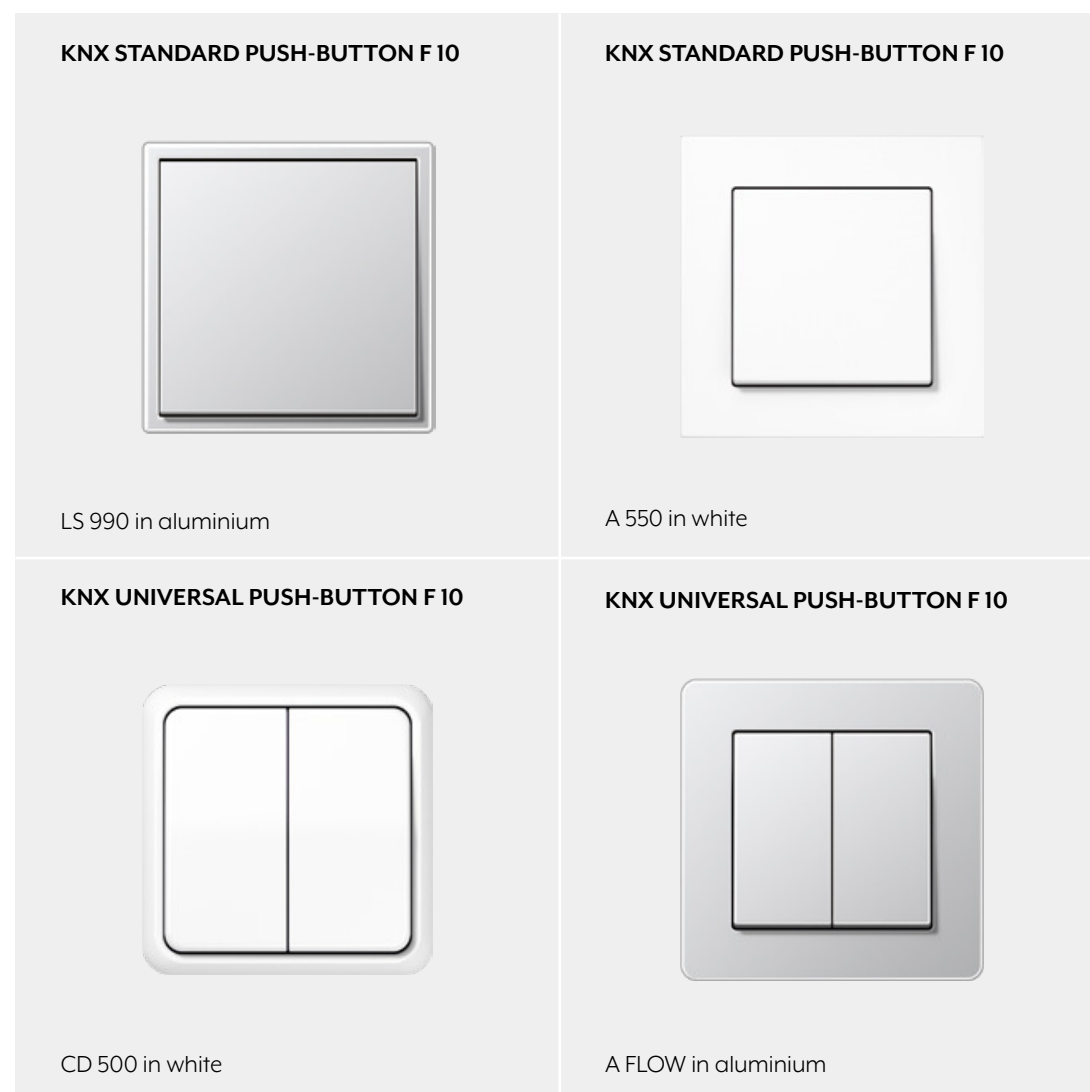
KNX push-button F 10

New switches for the Smart Home: The JUNG KNX push-button F 10 looks like a classic light switch, but masters intelligent KNX technology.

KNX PUSH-BUTTON F 10 IN MATT GRAPHITE BLACK



Classic form meets KNX



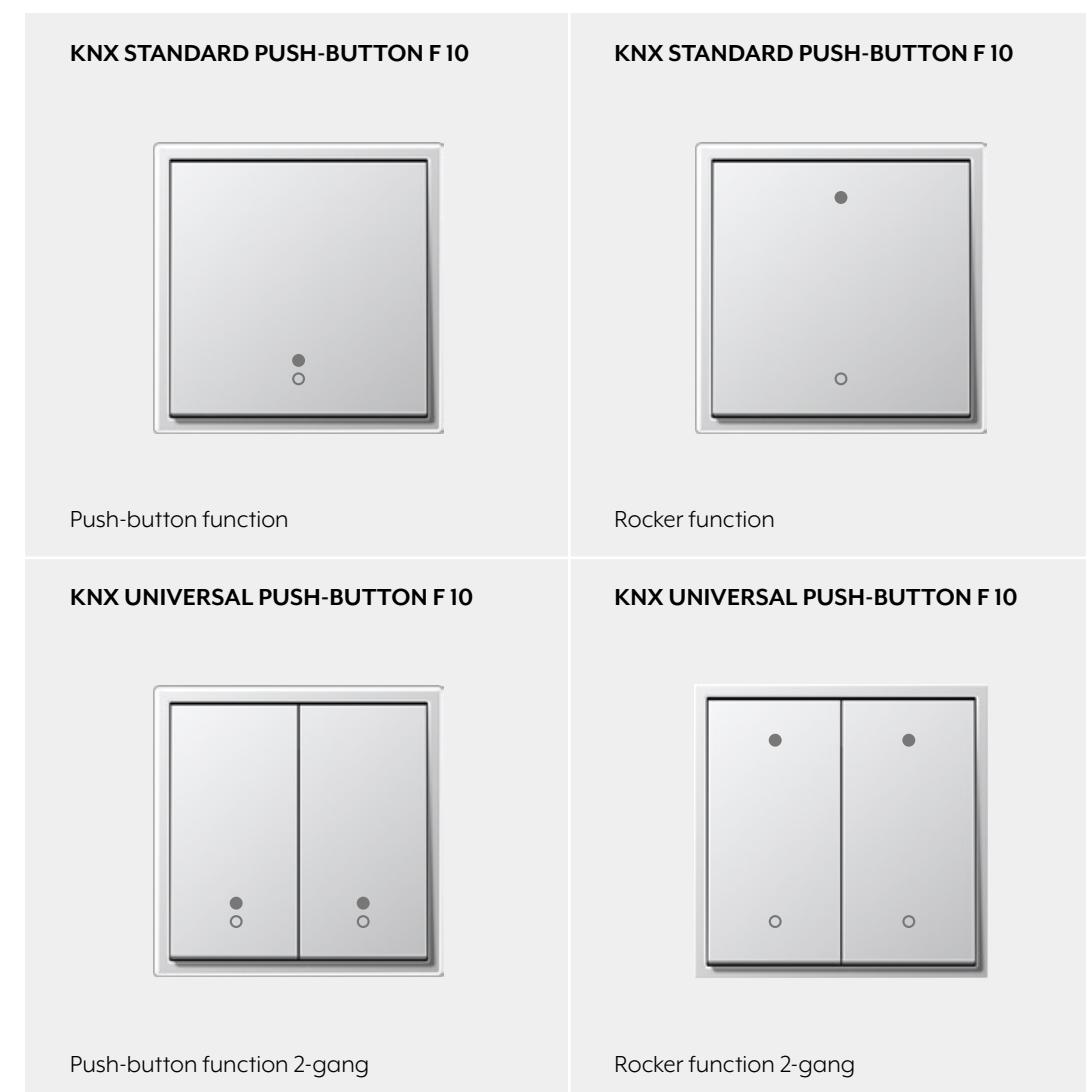
The JUNG KNX push-button F 10 is available with covers and devices of the A, AS, CD and LS ranges. It integrates itself optimally into every interior with them.



KNX SECURE

Effective protection with AES128 encryption and double protection: KNX IP Secure encrypts the transmission at network layer. KNX Data Secure encrypts and authenticates the data on the KNX bus line.

Individual button assignment



The new KNX push-buttons F 10 master both the push-button function as well as the rocker function. The rocker function of the Standard version enables additional control possibilities such as dimming lamps. Among other things, the push-button function in the Universal version enables full-surface operation. The KNX

push-button F 10 thus combines numerous functions in an elegant design. And that completely encrypted: the KNX push-button F 10 communicates using KNX Data Secure. As soon as an update is available, installers update the push-buttons using the ETS Service app.

Expected to be available from June 2020

Matt snow white and matt graphite black are expected to be available in the 3rd quarter of 2020

The functions of the F 10

KNX PUSH-BUTTON INSERT F 10



COVER IN LS 990



The new JUNG KNX push-buttons F 10 enable extensive options in the technical interior equipment of an intelligent building. Its range of functions is large, and thanks to its classic design, the KNX systems are simple to operate.

INTUITIVE AND VERSATILE OPERATION

The function assignment of the new JUNG KNX push-buttons F 10 can be completely customised. The Universal push-buttons switch blinds, dim lamps and much more. In addition, their individual switching points can be assigned multiple times thanks to a sophisticated operating concept. They thus enable particularly versatile control of the smart building.



TEMPERATURE SENSOR

The JUNG Universal push-button F 10 has a temperature sensor. It records the room temperature with pinpoint accuracy and passes the information on to, for example, a KNX temperature controller Fan Coil. This regulates the heating to a desired value.



NUMEROUS ADDITIONAL FUNCTIONS

In the guise of a classic switch, the JUNG KNX push-buttons F 10 provide a wide range of functions. Both versions have a controller satellite unit and an energy saving mode. The Universal push-button F 10 also has alarm signalling, lock function or HSV colour control.



COST-EFFICIENT EXPANSION

The JUNG Universal push-button F 10 can be connected to a KNX push-button extension via the left-justified connections. Alternatively, extensions with floating contact can be connected there, such as reed contacts or conventional light buttons. The installation is successful with a supply line of up to 30 metres in length. Thus the JUNG KNX push-buttons F 10 enable a smart and at the same time considerably more cost-efficient electrical installation.

System design for KNX Standard and Universal push-buttons

Standard 1-gang
Ref. no.: A 10711 ST

Universal 1-gang
Ref. no.: A 10911 ST

AS range

A range

Standard 2-gang
Ref. no.: A 10721 ST

Universal 2-gang
Ref. no.: A 10921 ST

AS range

A range

Standard 1-gang
Ref. no.: LS CD 10711 ST

Universal 1-gang
Ref. no.: LS CD 10911 ST

CD range

LS range

Standard 2-gang
Ref. no.: LS CD 10721 ST

Universal 2-gang
Ref. no.: LS CD 10921 ST

CD range

LS range

System design for KNX push-button extensions

Extension 1-gang
Ref. no.: A 10911 TE

Can only be combined with KNX Universal push-button

AS range

A range

Extension 2-gang
Ref. no.: A 10921 TE

Can only be combined with KNX Universal push-button

AS range

A range

Extension 1-gang
Ref. no.: LS CD 10911 TE

Can only be combined with KNX Universal push-button

CD range

LS range

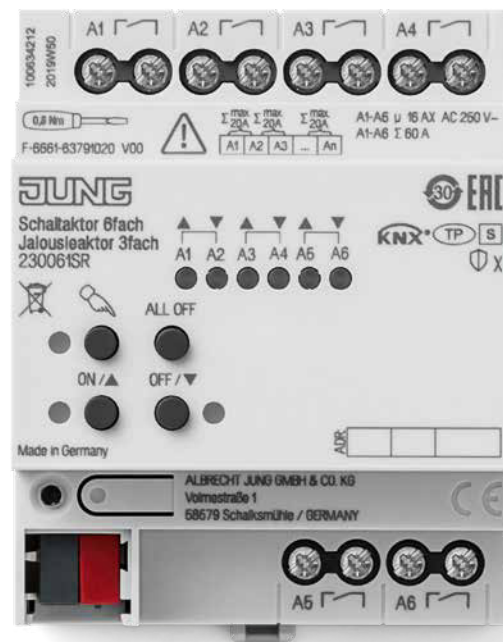
Extension 2-gang
Ref. no.: LS CD 10921 TE

Can only be combined with KNX Universal push-button

CD range

LS range

A new generation of the KNX switch and blind actuators



KNX SWITCH ACTUATOR, 6-GANG
KNX BLIND ACTUATOR, 3-GANG

Increased reliability, better energy efficiency and numerous new functions: The new JUNG KNX switch and blind actuators have a holistically improved concept. The actuators simplify mounting and increase functional diversity while reducing energy consumption.

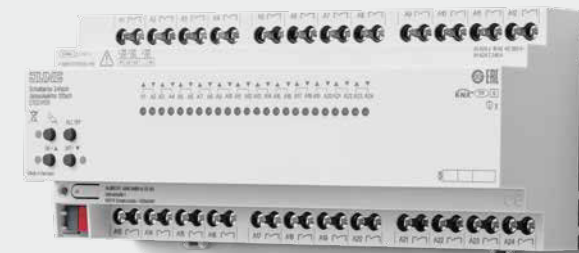
Expected to be available from June 2020



KNX switch actuator, 6-gang /
KNX blind actuator, 3-gang



KNX switch actuator, 16-gang /
KNX blind actuator, 8-gang



KNX switch actuator, 24-gang / KNX blind actuator, 12-gang

The KNX actuators of the latest generation are more compact thanks to their single-storey design. JUNG also improved the readability. Mounting is also easier. The teaching function is new: In addition to the classic setting of the travel time via ETS parameters, the installer can transmit the travel time of the blind to multiple actuators: Installed once, copied several times – the work in the property becomes easier. The owners also benefit:

The bistable relays of the actuators reduce the power loss to a minimum. This makes the actuators more energy efficient. The smart building is also more secure: The new generation of JUNG KNX actuators in the 6-gang, 16-gang and 24-gang versions communicate via KNX Data Secure. Telegrams on the twisted pair line are tap-proof. The new actuators receive updates via the also new ETS Service app.

KNX Power supply with IP interface

JUNG extends the KNX system devices and brings two essential areas together. The new KNX power supply with IP interface enables more efficient operation – on several levels simultaneously.

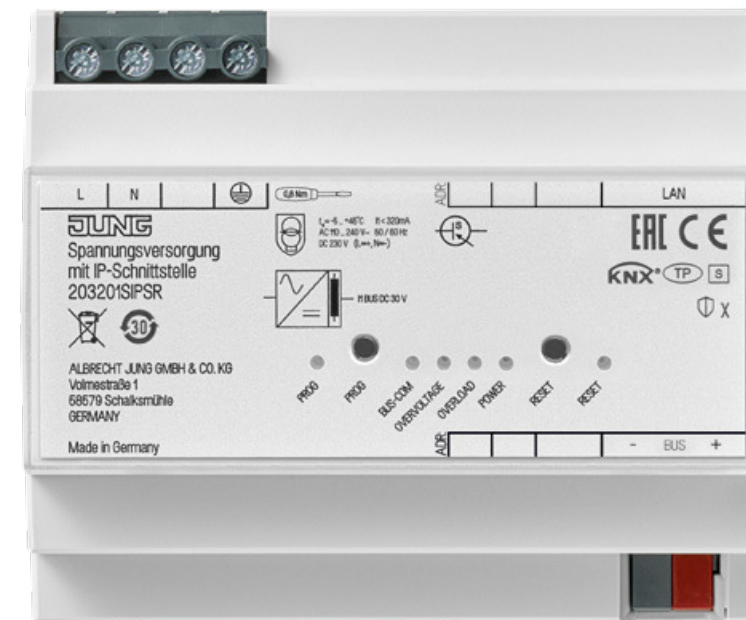
Thanks to the combination of power supply and IP interface, two essential system devices are combined in only one component. With the new power supply with IP interface,

professional installers can implement KNX installations more cost-effectively. This makes it easier to select components already at the planning stage.

OVERVIEW OF THE ADVANTAGES:

- KNX Data Secure
- KNX IP Secure
- Power supply of KNX nodes
- Has application-oriented logic

Already available



KNX POWER SUPPLY WITH IP INTERFACE

Upgrade with IPS-Remote

Remote maintenance of the KNX system.



Simple and cost-efficient remote maintenance and programming of all KNX components: IPS-Remote makes it possible. Remote maintenance is convenient for the expert and cost-effective for the building owner.

Expected to be available from June 2020



SOFTWARE LICENCE IPS-L IN THE MYJUNG PORTAL

With encrypted remote maintenance via IPS-Remote, system integrators only access the customer's KNX components. Time-consuming and cost-intensive journeys are eliminated. The necessary requirements for this are clear: The ETS app IPS-Remote, the IP interface IPS 300 SREG and the remote maintenance licence IPS-L bound to this interface. System integrators acquire these via their MyJUNG access. Once linked, professional installers maintain the KNX components behind the IP

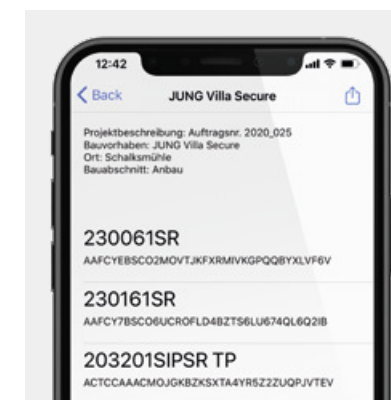
interface as usual via ETS5. If necessary, the customer must grant access – this can be done conveniently via the visualisation (e.g. via Smart Visu Server app) or via connection to a push-button sensor. In this way, the control always remains with the customer. System integrators can already switch actuators, configure wall transmitters and much more. Remote maintenance concentrates exclusively on the KNX line and its integrated components.

JUNG.DE/MYJUNG



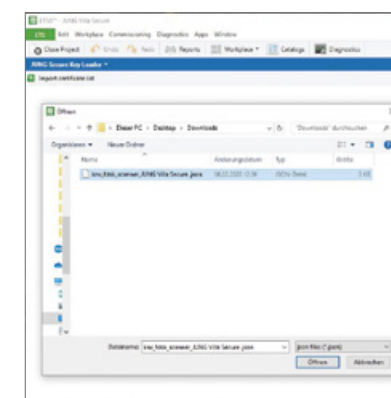
JUNG KNX Secure Apps: Secure & fast in operation

Professional installers need the device certificates of the individual KNX Secure components to make a KNX installation secure. They are printed on the devices as a QR code and must be integrated into the ETS. The easiest way to do this is via app.



APP: JUNG KNX SECURE SCANNER

With the new app, JUNG closes the trade interface between installer, distribution engineer and system integrator: Installers simply scan the QR codes instead of manually entering each code into the ETS. The Secure keys are displayed in the app as a list view. With the app, they then create a protected JSON file or list the Secure keys in a password-protected PDF. JUNG KNX Secure Scanner is available at no charge in the App Stores.



ETS APP: JUNG KNX SECURE KEY LOADER

In order to securely integrate the scanned device certificates into the ETS, the installer transfers the JSON files created with the JUNG KNX Secure Scanner to his computer. Several files can come together there, which he archives and imports into the ETS project using the ETS app JUNG KNX Secure Key Loader. This extension is available via the KNX Association App-Shop and is bound to the ETS dongle. The installation is performed via the App menu in the main menu of ETS 5 Professional.



Modular timber construction European School Frankfurt

Architects: nkbak BDA, Nicole Kerstin Berganski,
Andreas Krawczyk, Frankfurt

PLUG GO

E-solution for modular construction

plug + go is the pre-assembled solution for quick and clean electrical installation. The secret of plug + go: plug in instead of wiring – assembly time and total costs are reduced.

Serial and modular building in the electrical trade is the solution for projects where rooms are repeated frequently. With the innovative solution plug + go, JUNG, in cooperation with Wieland and Wago, presents a prefabricated installation system that enables quick, cost-effective and flexible electrical installation in cavity walls. This means considerable simplification for the work of the installer: The installer only has to plug in on site instead of

using screws. This shortens the overall installation time by up to 70 percent. The industrially prefabricated installation units as well as colour-coded and mechanically coded connectors also significantly reduce the error rate during the installation. In addition, a plug-gable installation minimises the total cable length and as a result the fire load is reduced. The new plug + go Configurator makes planning even easier.



3-fach Variante
3-f. Dose luftdicht VDE 0606-1,
Halogenfrei, Horizontal
531EU, WAGO Winsta Midi Stecker br.
506EU, WAGO Winsta Midi Stecker br.
1520NEINS, WAGO Winsta Midi
Stecker sw.

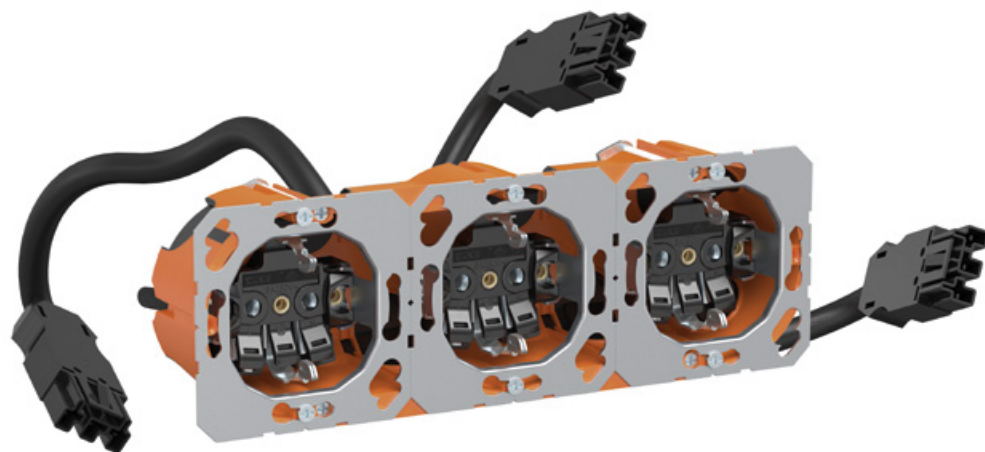
101095954

TESTED AND APPROVED BY JUNG

plug + go is ready to plug in and 100 percent tested. Each individual order receives the test label "Tested and Approved by JUNG" as a seal of quality.

New components

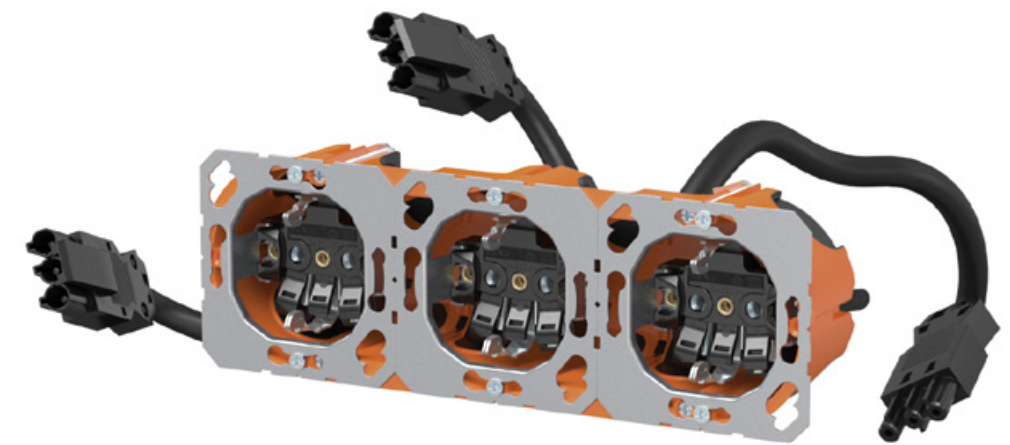
WAGO



JUNG PLUG + GO MODULE WITH WINSTA® MIDI FROM WAGO

The WINSTA® MIDI system from Wago ensures and optimises reliable electrical installations in the areas of energy management, lighting control, heating, ventilation and air conditioning. Wago is one of the leading suppliers of connection and automation technology and interface electronics.

wieland



JUNG PLUG + GO MODULE WITH GESIS® CLASSIC FROM WIELAND

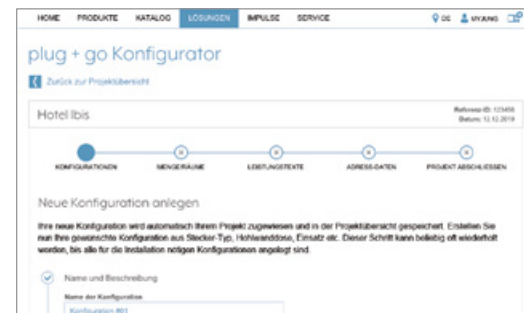
geis® from Wieland provides the possibility to carry out the complete electrical installation, including all operating equipment, in accordance with the binding installation regulations. With application knowledge about the product, technical support and training services, Wieland provides electronic components worldwide.

plug + go Configurator

In just a few clicks to a customised configuration: With the new plug + go Configurator, electrical installers can specify their configuration requirements and determine individual quantities. The Configurator simplifies the ordering of plug + go via electrical wholesalers.

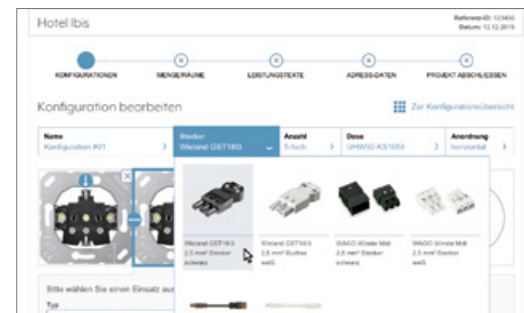
CREATE NEW PROJECT

In the first step, professional installers create a new project, e.g. the construction of a hotel. A fitting name, the specification of the country in which plug + go is to be installed and a confirmation of professional installation – and the new project is created. In the next step, the professional creates the actual configuration.



CONFIGURE PLUG CONNECTIONS

This step starts with the selection of the connector type, the cavity wall box, the number of inserts and their arrangement. In the next step of the configuration, installers determine the insert type. This configuration can be repeated as often as required until all combinations required for the electrical installation have been created.



DETERMINE QUANTITIES AND CREATE ROOMS

plug + go shows its strengths in buildings with repetitive rooms. Therefore, in the next step, the installer can define the rooms and determine the number of respective configurations, e.g. 20 configurations for a bedside table module of the single rooms, 40 configurations for the double rooms, etc.



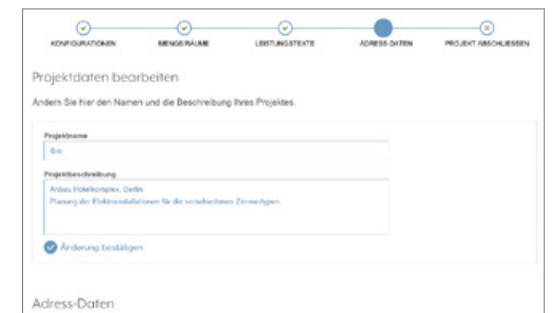
READ SERVICE TEXTS

After all configurations have been created, specialist planners can import the service texts of each individual component. Using them, they make sure that they have created the correct combinations with the plug + go Configurator. If required, they download the service texts as PDF files.



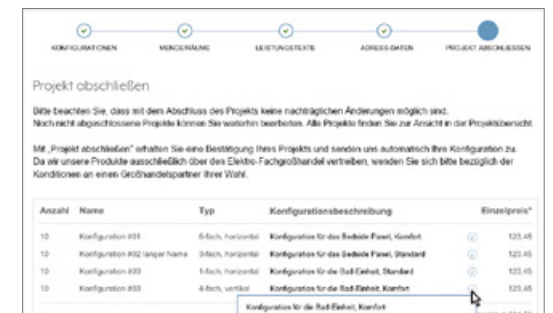
ENTER ADDRESS DETAILS

The address details are necessary for smooth correspondence with the electrical wholesale trade. Company, personal details, address and telephone numbers: With this information, the wholesaler can make the appropriate quotation as quickly as possible.



REVIEW AND FINALISE PROJECT

In the last part of the simple step-by-step configuration, electrical specialist partners have another opportunity to review the project. The plug + go Configurator lists all configurations in detail. Changes can of course still be made here before the project is finalised.



Augmented planning with JUNG AR-Studio

A completely new way to experience JUNG products digitally:
The JUNG app AR-Studio makes surfaces, materials and colours
a photo realistic experience. But AR-Studio provides much more:
The app for augmented planning provides numerous added
values and is therefore an ideal planning tool.



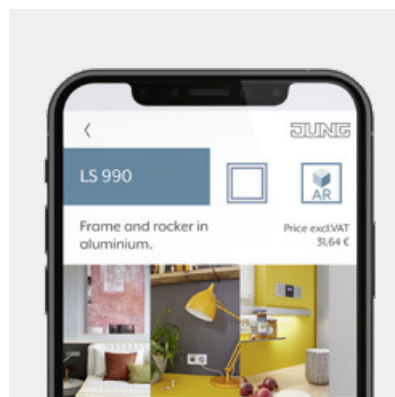
The app AR-Studio presents the entire range of the JUNG portfolio. Switches, push-button sensors, sockets, touch displays and much more: Prepared in true-to-life illustrations in large format, it shows numerous JUNG products. The app AR-Studio is a comprehensive tool that uses augmented reality to simplify planning. Augmented reality enhances reality

and provides an interactive experience of the real environment via smartphone or tablet. In the live display, AR-Studio presents JUNG objects virtually. With the new app, users can view and consider JUNG switch ranges in all the material and colour variants in the room at any time and anywhere.



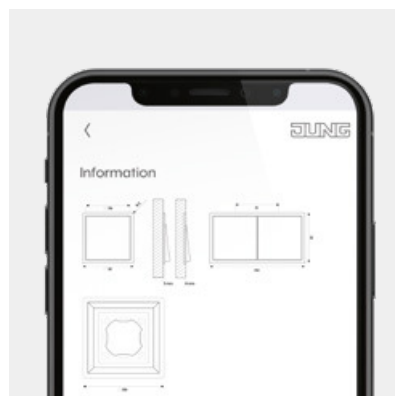
THE ADVANTAGES AT A GLANCE:

- Augmented planning in real-time
- Frame dimensions of the switch ranges
- Selected reference images
- True-to-life representation in the room
- Extensive background knowledge



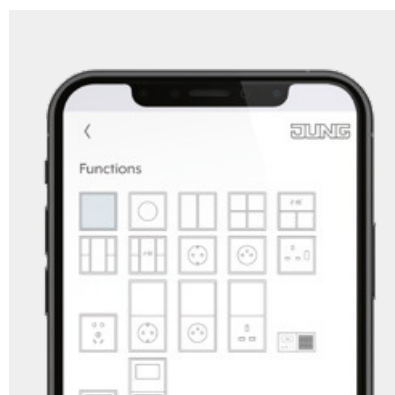
BACKGROUND KNOWLEDGE

In AR-Studio, users first select a switch range, then material and a colour. In addition to the live view of the product, the app provides extensive background information about the JUNG ranges and building technologies. All these contents are also available offline – ideal for the planning directly in the property.



FRAME DIMENSIONS

The AR-Studio-app for augmented planning also provides specialist planners with the frame dimensions of the individual JUNG ranges. The electrical installation is thus planned quickly and precisely and the installation of all technology can be performed efficiently. In the app, the frame dimensions are listed just below the product descriptions.



VARIETY OF COMBINATIONS AND FUNCTIONS

The variety of the digital AR product invites you to experiment: What effect do the other frame designs have? Will a multiple frame also fit next to my door? Of course all this works with the switches and sockets from the JUNG range as well as with KNX control elements, USB chargers or Smart Radio DAB+.

EXPERIENCE MARKER

The key to the virtual product world of JUNG



Stored in the app. Simply print out.

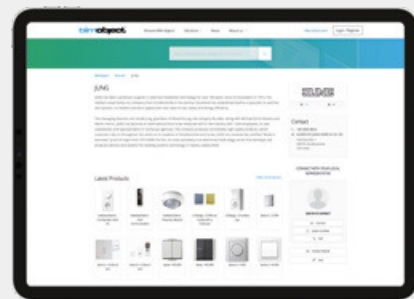


JUNG AR-Studio is installed quickly and easily. The app is optionally available via the Apple App Store or Google Play. After the installation, users must print out the experience marker (stored in the app) and attach it to the location where the switch should be installed later. The app then inserts virtual models of the selected products into the live image of the rooms.

JUNG goes BIM

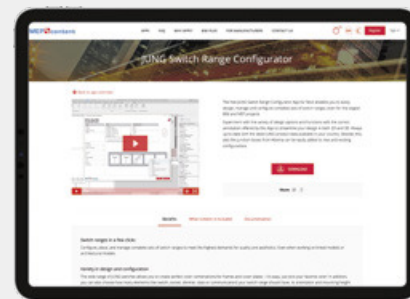
Quality, up-to-dateness and transparency: JUNG provides BIM objects for download free of charge for digital building planning. All relevant data and characteristics are stored in the BIM models.

JUNG IN THE BIMOBJECT CLOUD



Architects receive JUNG objects for ArchiCAD and Revit in LOD 500 via the BIMobject Cloud.

JUNG WITH MEPCONTENT



Architects obtain the Revit app Jung Switch Configurator via MEPcontent – for the integration of JUNG objects directly into the planning.

Building Information Modeling (BIM) defines the structural processes in the planning process and enables architects and planners to develop a component-oriented, three-dimensional building model.

All important information can be retrieved by all project participants using BIM. Planning with BIM simplifies the communication between the individual trades and contributes to cost-efficient planning.

JUNG.DE/BIM



JUNG by FEELSMART 2.0

Now even smarter planning with eNet SMART HOME and KNX.



Only four steps to the Smart Home: Building owners do not need specialist knowledge for the configuration of the intelligent home. With JUNG by FEELSMART, the Smart Home can be planned quickly – the consulting effort of the professional is significantly reduced.

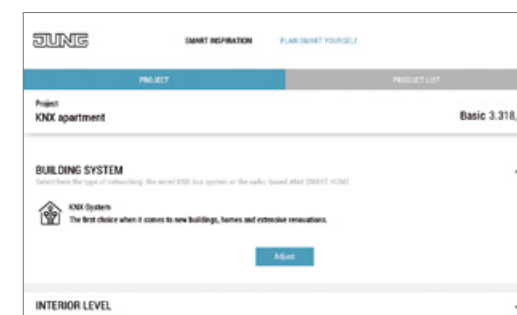
SELECT BUILDING

From the rental apartment to the detached house to the city villa with garden: The planning with FEELSMART starts with the information about the building and the rooms that should be renovated. For a quick start, suggestions are already preconfigured and can be easily changed.



DETERMINE TECHNOLOGY FOR THE SMART HOME

Wired KNX system or radio-based Smart Home? The selection of the technology follows directly in second place. Preconfigured equipment packages are available that automatically equip the Smart Home.



SELECT EXTRAS AND ADDITIONAL OPTIONS

A clear visualisation, a specific JUNG switch range, convenient voice control and much more: Numerous additional options provide even more comfort in the Smart Home. The price is constantly updated.



COMMISSION PROFESSIONAL INSTALLER

At the end of the step-by-step configuration process, building owners and modernisers receive a planning code and the overview of their planning as a PDF file. You can give these to a specialist partner for finalisation. The created configuration provides a quick and reliable basis for a specification sheet. Building owners can find the right contact person at mein-elektroinstallateur.de.





SCHUKO® SOCKET WITH USB-C

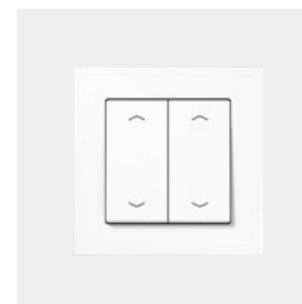
Catalogue contents



80
SCHUKO® sockets
with USB-A+C



100
LS 1912 with
indicator lamp



102
Smart operating concept
KNX push-button F 10



108
New KNX actuators with
improved concept

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Sockets with USB A range

Available May 2020,
matt snow white and matt graphite black
3rd quarter 2020

Ref.-no.



SCHUKO® socket with USB charger

with child protection (shutter)

with 1 USB port type A

with quick charge function

Installation into flush box min. 63 mm (depth)

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**

Rated voltage: AC 220 ... 250 V ~
Mains frequency: 50/60 Hz
Output voltage USB: DC 9/5 V
Output current USB: 2/3 A
Stand-by power: ≤ 60 mW
Ambient temperature: +5 ... +35 °C
Storage/transport temperature: -20 ... +70 °C
Protection level: IP 20
Connection: screwless connection
stranded without ferrule: 2 x 1.5 ... 2.5 mm²



SCHUKO® socket with USB charger

with child protection (shutter)

with 1 USB port type C

with quick charge function

Installation into flush box min. 63 mm (depth)

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**

Rated voltage: AC 220 ... 250 V ~
Mains frequency: 50/60 Hz
Output voltage USB: DC 9/5 V
Output current USB: 2/3 A
Stand-by power: ≤ 25 mW
Ambient temperature: +5 ... +35 °C
Storage/transport temperature: -20 ... +70 °C
Protection level: IP 20
Connection: screwless connection
stranded without ferrule: 2 x 1.5 ... 2.5 mm²

Sockets with USB A range

Available May 2020,
matt snow white and matt graphite black
3rd quarter 2020

Ref.-no.



SCHUKO® socket with USB charger

with child protection (shutter)

with 1 USB port type A and 1 USB port type C

Installation into flush box min. 63 mm (depth)

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**

Rated voltage: AC 220 ... 250 V ~
Mains frequency: 50/60 Hz
Output voltage USB: DC 5 V
Output current USB: 3 A
Stand-by power: ≤ 25 mW
Ambient temperature: +5 ... +35 °C
Storage/transport temperature: -20 ... +70 °C
Protection level: IP 20
Connection: screwless connection
stranded without ferrule: 2 x 1.5 ... 2.5 mm²

Sockets with USB A range

Available
May 2020

Ref.-no.



Socket, French/Belgian system with USB charger

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

with child protection (shutter)

with 1 USB port type A

with quick charge function



Installation into flush box min. 63 mm (depth)

Thermoplastic (breakproof) high-gloss

white **A 1520 F-18 A**

white **A 1520 F-18 A WW**

black **A 1520 F-18 A SW**

Duroplastic 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 anthracite **A 1520F-18 A ANM**

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



Socket, French/Belgian system with USB charger

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

with child protection (shutter)

with 1 USB port type C

with quick charge function



Installation into flush box min. 63 mm (depth)

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 anthracite **A 1520F-18 C ANM**

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

Sockets with USB A range

Available
May 2020

Ref.-no.



Socket, French/Belgian system with USB charger

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

with child protection (shutter)

with 1 USB port type A and 1 USB port type C

Installation into flush box min. 63 mm (depth)

Thermoplastic (breakproof) high-gloss

ivory **A 1520 F-15 CA**

white **A 1520 F-15 CA WW**

black **A 1520 F-15 CA SW**

Duroplastic 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 anthracite **A 1520F-15 CA ANM**

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

Sockets with USB LS range

Available May 2020,
matt snow white and matt graphite black
3rd quarter 2020

Ref.-no.



SCHUKO® socket with USB charger

with child protection (shutter)

with 1 USB port type A

with quick charge function

Installation into flush box min. 63 mm (depth)

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 versions

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**

Rated voltage: AC 220 ... 250 V ~
Mains frequency: 50/60 Hz
Output voltage USB: DC 9/5 V
Output current USB: 2/3 A
Stand-by power: ≤ 60 mW
Ambient temperature: +5 ... +35 °C
Storage/transport temperature: -20 ... +70 °C
Protection level: IP 20
Connection: screwless connection
stranded without ferrule: 2 x 1.5 ... 2.5 mm²



SCHUKO® socket with USB charger

with child protection (shutter)

with 1 USB port type C

with quick charge function

Installation into flush box min. 63 mm (depth)

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 versions

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**

Rated voltage: AC 220 ... 250 V ~
Mains frequency: 50/60 Hz
Output voltage USB: DC 9/5 V
Output current USB: 2/3 A
Stand-by power: ≤ 25 mW
Ambient temperature: +5 ... +35 °C
Storage/transport temperature: -20 ... +70 °C
Protection level: IP 20
Connection: screwless connection
stranded without ferrule: 2 x 1.5 ... 2.5 mm²

Sockets with USB LS range

Available May 2020,
matt snow white and matt graphite black
3rd quarter 2020

Ref.-no.



SCHUKO® socket with USB charger

with child protection (shutter)

with 1 USB port type A and 1 USB port type C

Installation into flush box min. 63 mm (depth)

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 versions

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**

Rated voltage: AC 220 ... 250 V ~
Mains frequency: 50/60 Hz
Output voltage USB: DC 5 V
Output current USB: 3 A
Stand-by power: ≤ 25 mW
Ambient temperature: +5 ... +35 °C
Storage/transport temperature: -20 ... +70 °C
Protection level: IP 20
Connection: screwless connection
stranded without ferrule: 2 x 1.5 ... 2.5 mm²

Sockets with USB LS range

Available May 2020,
matt snow white and matt graphite black
3rd quarter 2020

Ref.-no.



Socket, French/Belgian system with USB charger
2-pole + male earth pin, 16 A / 250 V ~
with child protection (shutter)
with 1 USB port type A
with quick charge function



Installation into flush box min. 63 mm (depth)

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 versions

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**

Rated voltage: AC 220 ... 250 V ~
Mains frequency: 50/60 Hz
Output voltage USB: DC 9/5 V
Output current USB: 2/3 A
Stand-by power: ≤ 60 mW
Ambient temperature: +5 ... +35 °C
Storage/transport temperature: -20 ... +70 °C
Protection level: IP 20
Connection: screwless connection
stranded without ferrule: 2 x 1.5 ... 2.5 mm²



Socket, French/Belgian system with USB charger
2-pole + male earth pin, 16 A / 250 V ~
with child protection (shutter)
with 1 USB port type C
with quick charge function



Installation into flush box min. 63 mm (depth)

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 versions

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**

Rated voltage: AC 220 ... 250 V ~
Mains frequency: 50/60 Hz
Output voltage USB: DC 9/5 V
Output current USB: 2/3 A
Stand-by power: ≤ 25 mW
Ambient temperature: +5 ... +35 °C
Storage/transport temperature: -20 ... +70 °C
Protection level: IP 20
Connection: screwless connection
stranded without ferrule: 2 x 1.5 ... 2.5 mm²

Sockets with USB LS range

Available May 2020,
matt snow white and matt graphite black
3rd quarter 2020

Ref.-no.



Socket, French/Belgian system with USB charger
2-pole + male earth pin, 16 A / 250 V ~
with child protection (shutter)
with 1 USB port type A and 1 USB port type C
Installation into flush box min. 63 mm (depth)

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 versions

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**

Rated voltage: AC 220 ... 250 V ~
Mains frequency: 50/60 Hz
Output voltage USB: DC 5 V
Output current USB: 3 A
Stand-by power: ≤ 25 mW
Ambient temperature: +5 ... +35 °C
Storage/transport temperature: -20 ... +70 °C
Protection level: IP 20
Connection: screwless connection
stranded without ferrule: 2 x 1.5 ... 2.5 mm²

USB charger Snap-on covers

Matt snow white and matt graphite black
available 3rd quarter 2020,
all other colours available

Ref.-no.



USB charger

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

USB 15 CA WW
USB 15 CA SW

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: screw terminals
Output voltage: DC 5 V (± 5 %)
Output current
AC 120 ... 240 V ~ max. 3000 mA
AC 90 ... 108 V ~ max. 2500 mA

Centre plate

for USB charger ref.-no.: USB 3-2 WW, USB 3-2 SW,
USB 15 CA WW, USB 15 CA SW

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory **A 1569 USB**
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**

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**

Snap-on covers Modular jack

Available May 2020,
matt snow white and matt graphite black
3rd quarter 2020

Ref.-no.



Centre plate

with supporting frame, screw fixing only
for universal modular jack socket ref.-no.: UMA-CAT6A

Shutter with spring for 1 socket

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory **A 1569-1 WE**
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 LS range

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**

Centre plate with inscription field 9 x 58 mm

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**

Centre plate with inscription field 12 x 55 mm

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**

Snap-on covers Modular jack

Available May 2020,
matt snow white and matt graphite black
3rd quarter 2020

Ref.-no.



Centre plate

with supporting frame, screw fixing only
for universal modular jack socket ref.-no.: UMA-CAT6A




Shutter with spring for 2 sockets

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory  **A 1569-2 WE**
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 LS range



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**

Centre plate with inscription field 9 x 58 mm

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**

Centre plate with inscription field 12 x 55 mm

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**



Snap-on covers Modular jack

Available May 2020,
matt snow white and matt graphite black
3rd quarter 2020

Ref.-no.



Centre plate

with supporting frame, screw fixing only
for cable Ø max. 6.1 mm
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

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory  **A 1569-15 WE**
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 LS range




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**

Centre plate with inscription field 9 x 58 mm

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**

Snap-on covers Modular jack

Available May 2020,
matt snow white and matt graphite black
3rd quarter 2020

Ref.-no.



Centre plate with inscription field 12 x 55 mm

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

Centre plate

with supporting frame, screw fixing only
for cable Ø max. 6.1 mm
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 2 sockets

for AS and A ranges

Thermoplastic (breakproof) high-gloss

ivory	A 1569-25 WE
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

for LS range

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

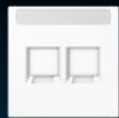
aluminium	AL 1969-25 WE
stainless steel	ES 1969-25 WE
anthracite (aluminium lacquered)	AL 1969-25 WE AN
dark (aluminium lacquered)	AL 1969-25 WE D
classic brass	ME 1969-25 WE C
antique brass	ME 1969-25 WE AT



Snap-on covers Modular jack

Available May 2020,
matt snow white and matt graphite black
3rd quarter 2020

Ref.-no.



Centre plate with inscription field 9 x 58 mm

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

Centre plate with inscription field 12 x 55 mm






















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












Snap-on covers Modular jack

Available
April 2020

	Ref.-no.
	Centre plate 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
	for AS and A ranges Thermoplastic (breakproof) high-gloss ivory  A 1569-2 AT white  A 1569-2 AT WW
	for LS range 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
	Centre plate with inscription field 9 x 58 mm Thermoplastic (breakproof) high-gloss ivory  LS 1969-2 NA AT white  LS 1969-2 NA AT WW
	Centre plate with inscription field 12 x 55 mm metal versions aluminium  AL 1969-2 NA AT stainless steel  ES 1969-2 NA AT
	Centre plate 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
	for AS and A ranges Thermoplastic (breakproof) high-gloss ivory  A 1569-2 PAND white  A 1569-2 PAND WW
	Centre plate 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

























Snap-on covers Modular jack

Available
April 2020

	Ref.-no.
	Centre plate 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
	Centre plate 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
	for LS range Thermoplastic (breakproof) high-gloss ivory  LS 1969-2 NA INF white  LS 1969-2 NA INF WW















Matt lacquering A range

Available
3rd quarter 2020

	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 1-gang push-button BCU neutral position ref.-no.: 4071.02 LED switch position ref.-no.: 4071.01 LED matt lacquered matt snow white   A 590 WWM matt graphite black  A 590 SWM
	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 for 1-gang push-button BCU neutral position ref.-no.: 4071.02 LED switch position ref.-no.: 4071.01 LED matt lacquered matt snow white   A 590 K05 WWM matt graphite black  A 590 K05 SWM
	1-gang rocker with arrow symbols for 1-gang push-button BCU neutral position ref.-no.: 4071.02 LED matt lacquered matt snow white A 590 P WWM matt graphite black A 590 P SWM
	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 2-gang push-button BCU neutral position ref.-no.: 4072.02 LED switch position ref.-no.: 4072.01 LED matt lacquered matt snow white   A 595 WWM matt graphite black  A 595 SWM
	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 for 2-gang push-button BCU neutral position ref.-no.: 4072.02 LED switch position ref.-no.: 4072.01 LED matt lacquered matt snow white   A 595 K05 WWM matt graphite black  A 595 K05 SWM
	2-gang rocker with arrow symbols for blind switch insert ref.-no.: 509 VU for blind push-button insert ref.-no.: 539 VU for 2-gang push-button BCU switch position ref.-no.: 4072.01 LED matt lacquered matt snow white  A 595 P WWM matt graphite black  A 595 P SWM
	3-gang rocker for 3-gang switch insert ref.-no.: 5301 EU, 5306 EU matt lacquered matt snow white  A 593 BF WWM matt graphite black A 593 BF SWM
	SCHUKO® socket 16 A / 250 V ~ Supporting frame, claws and claw screws are integrated into the earth protection. matt lacquered matt snow white  A 1520 BF WWM matt graphite black A 1520 BF SWM

















Matt lacquering A range

Available
3rd quarter 2020

	Ref.-no.
	SCHUKO® socket 16 A / 250 V ~ screw fixing only, without claws With screw terminals: ref.-no. ..1521.. Supporting frame is integrated into the earth protection. matt lacquered matt snow white  A 1520 NBF WWM matt graphite black A 1520 NBF SWM
	SCHUKO® socket 16 A / 250 V ~ Screw terminals for wires up to 2.5 mm ² Without claws: ref.-no. with additional "N", e.g.: ..1521 N.. Supporting frame, claws and claw screws are integrated into the earth protection. matt lacquered matt snow white  A 1521 BF WWM matt graphite black A 1521 BF SWM
	SCHUKO® socket 16 A / 250 V ~ with child protection (shutter) 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. matt lacquered matt snow white  A 1520 BFKI WWM matt graphite black A 1520 BFKI SWM
	SCHUKO® socket 16 A / 250 V ~ with child protection (shutter) Screw terminals for wires up to 2.5 mm ² Supporting frame, claws and claw screws are integrated into the earth protection. matt lacquered matt snow white  A 1521 BFKI WWM matt graphite black A 1521 BFKI SWM
	SCHUKO® socket 16 A / 250 V ~ with inscription field 6 x 46 mm 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. matt lacquered matt snow white A 1520 BFNA WWM matt graphite black A 1520 BFNA SWM
	SCHUKO® socket 16 A / 250 V ~ with child protection (shutter) with inscription field 6 x 46 mm 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. matt lacquered matt snow white A 1520 BFKINA WWM matt graphite black A 1520 BFKINA SWM
	SCHUKO® socket with USB charger with child protection (shutter) with 1 USB port type A with quick charge function Installation into flush box min. 63 mm (depth) matt lacquered matt snow white  A 1520-18 A WWM matt graphite black A 1520-18 A SWM
	SCHUKO® socket with USB charger with child protection (shutter) with 1 USB port type C with quick charge function Installation into flush box min. 63 mm (depth) matt lacquered matt snow white  A 1520-18 C WWM matt graphite black A 1520-18 C SWM
























Matt lacquering A range

Available
3rd quarter 2020

	Ref.-no.
	SCHUKO® socket with USB charger with child protection (shutter) with 1 USB port type A and 1 USB port type C Installation into flush box min. 63 mm (depth) matt lacquered matt snow white  A 1520-15 CA WWM matt graphite black  A 1520-15 CA SWM
	SCHUKO® socket 16 A / 250 V ~ with hinged lid (with spring) 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. matt lacquered matt snow white   A 1520 BFKL WWM matt graphite black   A 1520 BFKL SWM
	SCHUKO® socket 16 A / 250 V ~ with hinged lid (with spring) with child protection (shutter) 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. matt lacquered matt snow white   A 1520 BFKIKL WWM matt graphite black   A 1520 BFKIKL SWM
	SCHUKO® socket 16 A / 250 V ~ with LED floor pilot light with integrated brightness sensor with child protection (shutter) Screwless terminals for wires up to 2.5 mm ² 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. matt lacquered matt snow white A 1520-O WWM LNW matt graphite black A 1520-O SWM LNW
	LED floor pilot light with integrated brightness sensor Screwless terminals for wires up to 2.5 mm ² 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. matt lacquered matt snow white A 1539-O WWM LNW matt graphite black A 1539-O SWM LNW
	LED floor pilot light Screwless terminals for wires up to 2.5 mm ² 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. matt lacquered matt snow white A 1539-OO WWM LNW matt graphite black A 1539-OO SWM LNW









Matt lacquering A range

Available
3rd quarter 2020

	Ref.-no.
	Socket, French/Belgian system 2-pole + male earth pin, 16 A / 250 V ~ with child protection (shutter) Screwless terminals for wires up to 2.5 mm ² Supporting frame, claws and claw screws are integrated into the earth protection. matt lacquered matt snow white  A 1520 FBFKI WWM matt graphite black  A 1520 FBFKI SWM
	Socket, French/Belgian system 2-pole + male earth pin, 16 A / 250 V ~ with child protection (shutter) Screw terminals for wires up to 2.5 mm ² acc. to NFC 61-314 Supporting frame, claws and claw screws are integrated into the earth protection. matt lacquered matt snow white  A 1521 FBFKI WWM matt graphite black  A 1521 FBFKI SWM
	Centre plate for socket insert French/Belgian system, ref.-no.: 1520 ..F EINS, 1521 ..F EINS with child protection (shutter) matt lacquered matt snow white  A 1521 FKI WWM PL-1 matt graphite black  A 1521 FKI SWM PL-1
	Socket, 2-pole without earth 16 A / 250 V ~ Screw terminals for wires up to 2.5 mm ² matt lacquered matt snow white  A 511 N WWM matt graphite black  A 511 N SWM
	Centre plate for socket insert ref.-no. 3171-5 EINS matt lacquered matt snow white A 3171-5 WWM PL matt graphite black A 3171-5 SWM PL
	Centre plate for socket insert ref.-no. 3171 KO EINS matt lacquered matt snow white A 3171 BFKO WWM PL matt graphite black A 3171 BFKO SWM PL
	Centre plate for socket insert ref.-no. 3171 EINS matt lacquered matt snow white A 3171 BF WWM PL matt graphite black A 3171 BF SWM PL
	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, 240-31 for DALI potentiometer insert ref.-no.: 240 DPE, 240 PDPE, 240 PDPE TW matt lacquered matt snow white   A 1540 BF WWM matt graphite black   A 1540 BF SWM
	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 matt lacquered matt snow white  A 1700 BF WWM matt graphite black  A 1700 BF SWM










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	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 matt lacquered matt snow white A 1700 BFP WWM matt graphite black A 1700 BFP SWM
	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 matt lacquered matt snow white A 1701 BF WWM matt graphite black A 1701 BF SWM
	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 matt lacquered matt snow white A 1701 BFP WWM matt graphite black A 1701 BFP SWM
	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 matt lacquered matt snow white A 1751 BFBT WWM matt graphite black A 1751 BFBT SWM
	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 matt lacquered matt snow white A 1751 BFPBT WWM matt graphite black A 1751 BFPBT SWM
	Standard centre plate 2-gang for LB Management inserts "light" ref.-no.: 1702 SE, 1712 DE, 1713 DSTE, 1723 NE matt lacquered matt snow white A 1702 BF WWM matt graphite black A 1702 BF SWM
	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 matt lacquered matt snow white A 17180 WWM matt graphite black A 17180 SWM
	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 matt lacquered matt snow white A 17181 WWM matt graphite black A 17181 SWM















Matt lacquering A range

Available
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	Ref.-no.
	Room thermostat (1-way contact) 1-pole NC contact 10 (4) A, AC 230 V ~, 50/60 Hz matt lacquered matt snow white TR A 231 WWM matt graphite black TR A 231 SWM
	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. matt lacquered matt snow white TR A 236 WWM matt graphite black TR A 236 SWM
	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 matt lacquered matt snow white A 506 BF NUZ WWM matt graphite black A 506 BF NUZ SWM
	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 matt lacquered matt snow white A 528 PL WWM matt graphite black A 528 PL SWM One escutcheon plate with symbols and one without symbols included in delivery.
	Centre plate for TV-FM sockets ref.-no.: EDU 04 F, GEDU 10, GEDU 15 matt lacquered matt snow white A 561 BFPLTV WWM matt graphite black A 561 BFPLTV SWM
	Centre plate for SAT-TV-FM socket outlet inserts ref.-no.: EDA 302 F, GDA 313 F for standard SAT-TV-FM sockets matt lacquered matt snow white A 561 BFPLSAT WWM matt graphite black A 561 BFPLSAT SWM
	Centre plate for 4-hole SAT-TV socket (Ankaro) matt lacquered matt snow white A 561-4 SAT2 WWM matt graphite black A 561-4 SAT2 SWM
	Cable outlet with supporting frame, screw fixing only for cables 3 x 1.5 mm² up to 5 x 2.5 mm² (Ø 7 up to 13 mm) matt lacquered matt snow white A 590 BFA WWM matt graphite black A 590 BFA SWM
	Centre plate for modular jack sockets 1 x 8-pol. for WLAN access point ref.-no.: WLAN-AC-UAE, WLAN-AC-POE-UAE matt lacquered matt snow white A 569-1 BFPLUA WWM matt graphite black A 569-1 BFPLUA SWM



















Matt lacquering A range

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	Ref.-no.
	Centre plate for modular jack sockets 2 x 8-pol. for media converter 2-gang ref.-no.: MK-POF-2UAE matt lacquered matt snow white  A 569-2 BFPLUA WWM matt graphite black A 569-2 BFPLUA SWM
	Centre plate for stereo loudspeaker socket for 2-gang supporting frame in connection with universal modular jack socket cat. 6A iso, type A for USB data interface ref.-no.: 2131 USBS, 2130 USB matt lacquered matt snow white  A 569 BFPLT WWM matt graphite black A 569 BFPLT SWM
	Centre plate for USB charger ref.-no.: USB 3-2 WW, USB 3-2 SW, USB 15 CA WW, USB 15 CA SW matt lacquered matt snow white  A 1569 USB WWM matt graphite black A 1569 USB SWM
	Centre plate with supporting frame, screw fixing only for universal modular jack socket ref.-no.: UMA-CAT6A Shutter with spring for 1 socket matt lacquered matt snow white  A 1569-1 WE WWM matt graphite black A 1569-1 WE SWM
	Centre plate with supporting frame, screw fixing only for universal modular jack socket ref.-no.: UMA-CAT6A Shutter with spring for 2 sockets matt lacquered matt snow white  A 1569-2 WE WWM matt graphite black A 1569-2 WE SWM
	Centre plate with supporting frame, screw fixing only for cable Ø max. 6.1 mm Shutter with spring for 1 socket matt lacquered matt snow white  A 1569-15 WE WWM matt graphite black A 1569-15 WE SWM
	Centre plate with supporting frame, screw fixing only for cable Ø max. 6.1 mm Shutter with spring for 2 sockets matt lacquered matt snow white  A 1569-25 WE WWM matt graphite black A 1569-25 WE SWM 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















Matt lacquering A range

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	Ref.-no.
	Blank centre plate (snap-on fixing) with supporting frame, screw fixing only matt lacquered matt snow white  A 594-0 WWM matt graphite black  A 594-0 SWM
	Intermediate frame to install devices with 50 x 50 mm cover (DIN 49075) matt lacquered matt snow white A 590 Z WWM matt graphite black A 590 Z SWM
	Cover kit 1-gang to clip on F50 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 matt lacquered matt snow white  A 501 TSA WWM matt graphite black A 501 TSA SWM
	Cover kit 2-gang to clip on F50 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 matt lacquered matt snow white  A 502 TSA WWM matt graphite black A 502 TSA SWM
	Cover kit 3-gang to clip on F50 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 matt lacquered matt snow white  A 503 TSA WWM matt graphite black A 503 TSA SWM
	Cover kit 4-gang to clip on F50 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, ZLL A 5004 M matt lacquered matt snow white  A 504 TSA WWM matt graphite black A 504 TSA SWM
	Neutral cover to clip on F50 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, ZLL A 5004 M dimensions: 25 x 55 mm matt lacquered matt snow white  A 50 NA WWM matt graphite black A 50 NA SWM
	Cover kit 1-gang to clip on F40 push-button modules 1-gang ref.-no.: 4071 TSM, 4191 TSM, 4091 TSEM, 4071 RF TSM, 4212 TSM, 4008 TSM, FM 4001 M matt lacquered matt snow white  A 401 TSA WWM matt graphite black A 401 TSA SWM
	Cover kit 2-gang to clip on F40 push-button modules 2-gang ref.-no.: 4072 TSM, 4192 TSM, 4092 TSEM, 4072 RF TSM, 4224 TSM, 4008 TSM, FM 4002 M matt lacquered matt snow white  A 402 TSA WWM matt graphite black A 402 TSA SWM
















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	Ref.-no.
	Cover kit 3-gang to clip on F40 push-button modules 3-gang ref.-no.: 4073 TSM, 4193 TSM, 4093 TSEM, 4073 RF TSM, 4236 TSM, 4008 TSM, FM 4003 M matt lacquered matt snow white  A 403 TSA WWM matt graphite black A 403 TSA SWM
	Cover kit 4-gang to clip on F40 push-button modules 4-gang ref.-no.: 4074 TSM, 4194 TSM, 4094 TSEM, 4074 RF TSM, 4248 TSM, 4008 TSM, FM 4004 M matt lacquered matt snow white  A 404 TSA WWM matt graphite black A 404 TSA SWM
	Cover kit to clip on room controller display compact module ref.-no.: 4093 KRM TS D matt lacquered matt snow white  A 4093 TSA WWM matt graphite black A 4093 TSA SWM
	1-gang rocker for KNX push-button 1-gang ref.-no.: A 10711 ST, A 10911 ST, A 10911 TE matt lacquered matt snow white  A 101 BF WWM matt graphite black A 101 BF SWM
	1-gang rocker with lens for KNX push-button 1-gang ref.-no.: A 10711 ST, A 10911 ST matt lacquered matt snow white  A 101 KO5 BF WWM matt graphite black A 101 KO5 BF SWM
	2-gang rocker for KNX push-button 2-gang ref.-no.: A 10721 ST, A 10921 ST, A 10921 TE matt lacquered matt snow white  A 102 BF WWM matt graphite black A 102 BF SWM
	2-gang rocker with lens for KNX push-button 2-gang ref.-no.: A 10721 ST, A 10921 ST matt lacquered matt snow white  A 102 KO5 BF WWM matt graphite black A 102 KO5 BF SWM



























Matt lacquering A range

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	Ref.-no.
	Frame for horizontal and vertical installation for A range Labelling is possible with labelling kit ref.-no. AC 80 NAS 1-gang frames also suitable for British Standard installations (supporting frame must be compatible) 1-gang 85 x 85 x 10 mm 2-gang 85 x 156 x 10 mm 3-gang 85 x 227 x 10 mm 4-gang 85 x 298 x 10 mm 5-gang 85 x 369 x 10 mm
	Frame A 550 matt snow white Thermoplastic (breakproof) lacquered 1-gang  A 5581 BF WWM 2-gang  A 5582 BF WWM 3-gang  A 5583 BF WWM 4-gang  A 5584 BF WWM 5-gang  A 5585 BF WWM
	matt graphite black Thermoplastic (breakproof) lacquered 1-gang A 5581 BF SWM 2-gang A 5582 BF SWM 3-gang A 5583 BF SWM 4-gang A 5584 BF SWM 5-gang A 5585 BF SWM
	Frame A flow matt snow white Thermoplastic (breakproof) lacquered 1-gang  AF 581 BF WWM 2-gang  AF 582 BF WWM 3-gang  AF 583 BF WWM 4-gang  AF 584 BF WWM 5-gang  AF 585 BF WWM
	matt graphite black Thermoplastic (breakproof) lacquered 1-gang AF 581 BF SWM 2-gang AF 582 BF SWM 3-gang AF 583 BF SWM 4-gang AF 584 BF SWM 5-gang AF 585 BF SWM


















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	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) for 1-gang push-button BCU neutral position ref.-no.: 4071.02 LED switch position ref.-no.: 4071.01 LED matt lacquered matt snow white   LS 990 WWM matt graphite black   LS 990 SWM
	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 for 1-gang push-button BCU neutral position ref.-no.: 4071.02 LED switch position ref.-no.: 4071.01 LED matt lacquered matt snow white   LS 990 NA WWM matt graphite black   LS 990 NA SWM
	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 for 1-gang push-button BCU neutral position ref.-no.: 4071.02 LED switch position ref.-no.: 4071.01 LED matt lacquered matt snow white   LS 990 KO5 WWM matt graphite black   LS 990 KO5 SWM
	1-gang rocker with arrow symbols for 1-gang push-button BCU neutral position ref.-no.: 4071.02 LED matt lacquered matt snow white LS 990 P WWM matt graphite black LS 990 P SWM
	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) for 2-gang push-button BCU neutral position ref.-no.: 4072.02 LED switch position ref.-no.: 4072.01 LED matt lacquered matt snow white   LS 995 WWM matt graphite black   LS 995 SWM
	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 for 2-gang push-button BCU neutral position ref.-no.: 4072.02 LED switch position ref.-no.: 4072.01 LED matt lacquered matt snow white   LS 995 KO5 WWM matt graphite black   LS 995 KO5 SWM


















Matt lacquering LS range

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	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 for 2-gang push-button BCU switch position ref.-no.: 4072.01 LED matt lacquered matt snow white  LS 995 P WWM matt graphite black  LS 995 P SWM
	3-gang rocker for 3-gang switch insert ref.-no.: 5301 EU, 5306 EU matt lacquered matt snow white  LS 993 BF WWM matt graphite black LS 993 BF SWM
	SCHUKO® socket 16 A / 250 V ~ Supporting frame, claws and claw screws are integrated into the earth protection. matt lacquered matt snow white  LS 1520 WWM matt graphite black LS 1520 SWM
	SCHUKO® socket 16 A / 250 V ~ screw fixing only, without claws With screw terminals: ref.-no. ..1521.. Supporting frame is integrated into the earth protection. matt lacquered matt snow white  LS 1520 N WWM matt graphite black LS 1520 N SWM
	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. matt lacquered matt snow white  LS 1521 WWM matt graphite black LS 1521 SWM
	SCHUKO® socket 16 A / 250 V ~ with child protection (shutter) 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. matt lacquered matt snow white  LS 1520 KI WWM matt graphite black LS 1520 KI SWM
	SCHUKO® socket 16 A / 250 V ~ with child 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. matt lacquered matt snow white  LS 1521 KI WWM matt graphite black LS 1521 KI SWM
	SCHUKO® socket 16 A / 250 V ~ with inscription field 9 x 58 mm 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. matt lacquered matt snow white  LS 1520 NA WWM matt graphite black LS 1520 NA SWM











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	Ref.-no.
	SCHUKO® socket 16 A / 250 V ~ with child protection (shutter) with inscription field 9 x 58 mm 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. matt lacquered matt snow white  LS 1520 KINA WWM matt graphite black LS 1520 KINA SWM
	SCHUKO® socket with USB charger with child protection (shutter) with 1 USB port type A with quick charge function Installation into flush box min. 63 mm (depth) matt lacquered matt snow white LS 1520-18 A WWM matt graphite black LS 1520-18 A SWM
	SCHUKO® socket with USB charger with child protection (shutter) with 1 USB port type C with quick charge function Installation into flush box min. 63 mm (depth) matt lacquered matt snow white LS 1520-18 C WWM matt graphite black LS 1520-18 C SWM
	SCHUKO® socket with USB charger with child protection (shutter) with 1 USB port type A and 1 USB port type C Installation into flush box min. 63 mm (depth) matt lacquered matt snow white LS 1520-15 CA WWM matt graphite black LS 1520-15 CA SWM
	SCHUKO® socket 16 A / 250 V ~ with hinged lid (with spring) Supporting frame, claws and claw screws are integrated into the earth protection. matt lacquered matt snow white  LS 1520 BFKL WWM matt graphite black  LS 1520 BFKL SWM
	SCHUKO® socket 16 A / 250 V ~ with hinged lid (with spring) With screw terminals: ref.-no. ..1521.. Supporting frame is integrated into the earth protection. matt lacquered matt snow white  LS 1520 NBFKL WWM matt graphite black  LS 1520 NBFKL SWM
	SCHUKO® socket 16 A / 250 V ~ with hinged lid (with spring) Screw terminals for wires up to 2.5 mm ² Without claws: ref.-no. with additional "N", e.g.: ..1521 N.. Supporting frame, claws and claw screws are integrated into the earth protection. matt lacquered matt snow white  LS 1521 KL WWM matt graphite black  LS 1521 KL SWM
	SCHUKO® socket 16 A / 250 V ~ with hinged lid (with spring) with child protection (shutter) 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. matt lacquered matt snow white  LS 1520 BFKIKL WWM matt graphite black  LS 1520 BFKIKL SWM













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	Ref.-no.
	SCHUKO® socket 16 A / 250 V ~ with hinged lid (with spring) with child protection (shutter) Screw terminals for wires up to 2.5 mm ² Without claws: ref.-no. with additional "N", e.g.: ..1521 N.. matt lacquered matt snow white  LS 1521 KIKL WWM matt graphite black  LS 1521 KIKL SWM
	SCHUKO® socket 16 A / 250 V ~ with hinged lid (with spring) with inscription field 9 x 58 mm with child protection (shutter) 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. matt lacquered matt snow white  LS 1520 BFNKL WWM matt graphite black  LS 1520 BFNKL SWM
	SCHUKO® socket 16 A / 250 V ~ with LED floor pilot light with integrated brightness sensor with child protection (shutter) Screwless terminals for wires up to 2.5 mm ² 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. matt lacquered matt snow white LS 1520-O WWM LNW matt graphite black LS 1520-O SWM LNW
	LED floor pilot light with integrated brightness sensor Screwless terminals for wires up to 2.5 mm ² 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. matt lacquered matt snow white LS 1539-O WWM LNW matt graphite black LS 1539-O SWM LNW
	LED floor pilot light Screwless terminals for wires up to 2.5 mm ² 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. matt lacquered matt snow white LS 1539-OO WWM LNW matt graphite black LS 1539-OO SWM LNW
	Socket, French/Belgian system with USB charger 2-pole + male earth pin, 16 A / 250 V ~ with child protection (shutter) with 1 USB port type A with quick charge function Installation into flush box min. 63 mm (depth) matt lacquered matt snow white LS 1520 F-18 A WWM matt graphite black LS 1520 F-18 A SWM




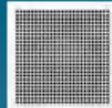








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	Ref.-no.
	Socket, French/Belgian system with USB charger 2-pole + male earth pin, 16 A / 250 V ~ with child protection (shutter) with 1 USB port type C with quick charge function  Installation into flush box min. 63 mm (depth) matt lacquered matt snow white LS 1520 F-18 C WWM matt graphite black LS 1520 F-18 C SWM
	Socket, French/Belgian system with USB charger 2-pole + male earth pin, 16 A / 250 V ~ with child protection (shutter) with 1 USB port type A and 1 USB port type C Installation into flush box min. 63 mm (depth) matt lacquered matt snow white LS 1520 F-15 CA WWM matt graphite black LS 1520 F-15 CA SWM
	Centre plate for socket insert ref.-no.: 1520 ..F EINS, 1521 ..F EINS with child protection (shutter) matt lacquered matt snow white  LS 1521 FKI WWM PL-1 matt graphite black LS 1521 FKI SWM PL-1
	Centre plate for Chinese socket combination, ref.-no. 3521-5 CN EINS matt lacquered matt snow white  LS 3521-5 CN WWM PL matt graphite black LS 3521-5 CN SWM PL
	Centre plate for socket insert ref.-no. 4171 GI SW EINS only in combination with frames in the LS range for socket insert ref.-no. GI 2171 SW EINS only in combination with frames BS 2181.. matt lacquered matt snow white LS 4171 GI SW WWM PL matt graphite black LS 4171 GI SW SWM PL
	Centre plate for socket insert ref.-no. 3171 EINS only in combination with frames in the LS range for socket insert ref.-no. BS 2171 EINS only in combination with frames BS 2181.. Duroplastic lacquered matt lacquered matt snow white BS 2171 WWM PL matt graphite black BS 2171 SWM PL
	Centre plate for socket insert ref.-no. 3171 KO EINS only in combination with frames in the LS range for socket insert ref.-no. BS 2171 KO EINS only in combination with frames BS 2181.. matt lacquered matt snow white BS 2171 KO WWM PL matt graphite black BS 2171 KO SWM PL
	Centre plate for socket insert ref.-no. BS 2172 EINS only in combination with 2-gang frames BS 2182.. matt lacquered matt snow white BS 2172 WWM PL matt graphite black BS 2172 SWM PL
	









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	Ref.-no.
	Centre plate for socket insert ref.-no. BS 2172 KO EINS only in combination with 2-gang frames BS 2182.. matt lacquered matt snow white BS 2172 KO WWM PL matt graphite black BS 2172 KO SWM PL
	Centre plate for socket insert ref.-no. 3521 EINS only in combination with frames in the LS range for socket BS 2521 EINS only in combination with frames BS 2181.. matt lacquered matt snow white BS 2521 WWM PL matt graphite black BS 2521 SWM PL
	Centre plate for sockets BS 2522 EINS and BS 3522 EINS matt lacquered matt snow white BS 2522 WWM PL matt graphite black BS 2522 SWM PL
	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 matt lacquered matt snow white LSM LS 4 WWM matt graphite black LSM LS 4 SWM
	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 matt lacquered matt snow white  LS 1941 WWM matt graphite black  LS 1941 SWM
	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, 240-31 for DALI potentiometer insert ref.-no.: 240 DPE, 240 PDPE, 240 PDPE TW matt lacquered matt snow white  LS 1940 WWM matt graphite black  LS 1940 SWM
	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 matt lacquered matt snow white  LS 1700 WWM matt graphite black LS 1700 SWM






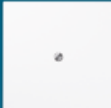


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	Ref.-no.
	Standard centre plate "arrows" for LB Management inserts "blinds" ref.-no.: 1730 JE and 1731 JE for LB Management inserts "light" ref.-no.: 1701 SE, 1704 ESE, 1702 SE, 1710 DE, 1711 DE, 1713 DSTE, 1720 NE, 1723 NE, 1708 IE matt lacquered matt snow white LS 1700 P WWM matt graphite black LS 1700 P SWM
	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 matt lacquered matt snow white LS 1701 WWM matt graphite black LS 1701 SWM
	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 matt lacquered matt snow white LS 1701 P WWM matt graphite black LS 1701 P SWM
	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 matt lacquered matt snow white LS 1751 BT WWM matt graphite black LS 1751 BT SWM
	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 matt lacquered matt snow white LS 1751 PBT WWM matt graphite black LS 1751 PBT SWM
	Standard centre plate 2-gang for LB Management inserts "light" ref.-no.: 1702 SE, 1712 DE, 1713 DSTE, 1723 NE matt lacquered matt snow white LS 1702 WWM matt graphite black LS 1702 SWM
	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 matt lacquered matt snow white LS 17180 WWM matt graphite black LS 17180 SWM
	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 matt lacquered matt snow white LS 17181 WWM matt graphite black LS 17181 SWM

















Matt lacquering LS range

Available
3rd quarter 2020

	Ref.-no.
	Room thermostat (1-way contact) 1-pole NC contact 10 (4) A, AC 230 V ~, 50/60 Hz matt lacquered matt snow white TR LS 231 WWM matt graphite black TR LS 231 SWM
	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. matt lacquered matt snow white TR LS 236 WWM matt graphite black TR LS 236 SWM
	Centre plate for TV-FM sockets ref.-no.: EDU 04 F, GEDU 10, GEDU 15 matt lacquered matt snow white LS 990 TV WWM matt graphite black LS 990 TV SWM
	Centre plate for SAT-TV-FM socket outlet inserts ref.-no.: EDA 302 F, GDA 313 F for standard SAT-TV-FM sockets matt lacquered matt snow white LS 990 SAT WWM matt graphite black LS 990 SAT SWM
	Centre plate for 4-hole SAT-TV socket (Ankaro) matt lacquered matt snow white LS 990-4 SAT2 WWM matt graphite black LS 990-4 SAT2 SWM
	Cable outlet with supporting frame, screw fixing only for cables 3 x 1.5 mm ² up to 5 x 2.5 mm ² (Ø 7 up to 13 mm) matt lacquered matt snow white LS 990 A WWM matt graphite black LS 990 A SWM
	Centre plate for modular jack sockets 1 x 8-pol. for WLAN access point ref.-no.: WLAN-AC-UAE, WLAN-AC-POE-UAE matt lacquered matt snow white LS 969-1 UA WWM matt graphite black LS 969-1 UA SWM
	Centre plate with inscription field 9 x 58 mm for modular jack sockets 1 x 8-pol. for WLAN access point ref.-no.: WLAN-AC-UAE, WLAN-AC-POE-UAE matt lacquered matt snow white LS 969-1 NAUA WWM matt graphite black LS 969-1 NAUA SWM


















Matt lacquering LS range

Available
3rd quarter 2020

	Ref.-no.
	Centre plate for modular jack sockets 2 x 8-pol. for media converter 2-gang ref.-no.: MK-POF-2UAE matt lacquered matt snow white  LS 969-2 UA WWM matt graphite black LS 969-2 UA SWM
	Centre plate with inscription field 9 x 58 mm for modular jack sockets 2 x 8-pol. for media converter 2-gang ref.-no.: MK-POF-2UAE matt lacquered matt snow white  LS 969-2 NAUA WWM matt graphite black LS 969-2 NAUA SWM
	Centre plate for stereo loudspeaker socket for 2-gang supporting frame in connection with universal modular jack socket cat. 6A iso, type A for USB data interface ref.-no.: 2131 USBs, 2130 USB matt lacquered matt snow white  LS 969 T WWM matt graphite black LS 969 T SWM
	Centre plate for USB charger ref.-no.: USB 3-2 WW, USB 3-2 SW, USB 15 CA WW, USB 15 CA SW matt lacquered matt snow white  LS 1969 USB WWM matt graphite black LS 1969 USB SWM
	Centre plate with supporting frame, screw fixing only for universal modular jack socket ref.-no.: UMA-CAT6A Shutter with spring for 1 socket matt lacquered matt snow white  LS 1969-1 WE WWM matt graphite black LS 1969-1 WE SWM
	Centre plate 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 matt lacquered matt snow white  LS 1969-1 NA WE WWM matt graphite black LS 1969-1 NA WE SWM
	Centre plate with supporting frame, screw fixing only for universal modular jack socket ref.-no.: UMA-CAT6A Shutter with spring for 2 sockets matt lacquered matt snow white  LS 1969-2 WE WWM matt graphite black LS 1969-2 WE SWM
	Centre plate 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 2 sockets matt lacquered matt snow white  LS 1969-2 NA WE WWM matt graphite black LS 1969-2 NA WE SWM









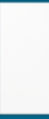



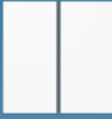

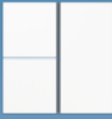

Matt lacquering LS range

Available
3rd quarter 2020

	Ref.-no.
	Centre plate with supporting frame, screw fixing only for cable Ø max. 6.1 mm Shutter with spring for 1 socket matt lacquered matt snow white  LS 1969-15 WE WWM matt graphite black LS 1969-15 WE SWM
	Centre plate with inscription field 9 x 58 mm with supporting frame, screw fixing only for cable Ø max. 6.1 mm Shutter with spring for 1 socket matt lacquered matt snow white  LS 1969-15 NA WE WWM matt graphite black LS 1969-15 NA WE SWM
	Centre plate with supporting frame, screw fixing only for cable Ø max. 6.1 mm Shutter with spring for 2 sockets matt lacquered matt snow white  LS 1969-25 WE WWM matt graphite black LS 1969-25 WE SWM
	Centre plate with inscription field 9 x 58 mm with supporting frame, screw fixing only for cable Ø max. 6.1 mm Shutter with spring for 2 sockets matt lacquered matt snow white  LS 1969-25 NA WE WWM matt graphite black LS 1969-25 NA WE SWM
	Blank centre plate (snap-on fixing) with supporting frame, screw fixing only matt lacquered matt snow white   LS 994 B WWM matt graphite black   LS 994 B SWM
	Intermediate frame to install devices with 50 x 50 mm cover (DIN 49075) matt lacquered matt snow white LS 961 Z WWM matt graphite black LS 961 Z SWM
	Intermediate frame to install devices of other manufacturers with 55 x 55 mm cover Not suitable for devices of the AS / A ranges. matt lacquered matt snow white LS 961 Z5 WWM matt graphite black LS 961 Z5 SWM
	Hinged lid with spring for sockets and devices with 50 x 50 mm cover matt lacquered matt snow white  LS 990 BFKL WWM matt graphite black LS 990 BFKL SWM













Matt lacquering LS range

Available
3rd quarter 2020

	Ref.-no.
	Cover kit 1-gang to clip on F50 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 matt lacquered matt snow white  LS 501 TSA WWM matt graphite black LS 501 TSA SWM
	Cover kit 2-gang to clip on F50 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 matt lacquered matt snow white  LS 502 TSA WWM matt graphite black LS 502 TSA SWM
	Cover kit 3-gang to clip on F50 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 matt lacquered matt snow white  LS 503 TSA WWM matt graphite black LS 503 TSA SWM
	Cover kit 4-gang to clip on F50 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, ZLL LS 5004 M matt lacquered matt snow white  LS 504 TSA WWM matt graphite black LS 504 TSA SWM
	Neutral cover to clip on F50 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, ZLL LS 5004 M dimensions: 33 x 70.5 mm matt lacquered matt snow white  LS 50 NA WWM matt graphite black LS 50 NA SWM
	Cover kit 1-gang to clip on F40 push-button modules 1-gang ref.-no.: 4071 TSM, 4191 TSM, 4091 TSEM, 4071 RF TSM, 4212 TSM, 4008 TSM, FM 4001 M matt lacquered matt snow white  LS 401 TSA WWM matt graphite black LS 401 TSA SWM
	Cover kit 2-gang to clip on F40 push-button modules 2-gang ref.-no.: 4072 TSM, 4192 TSM, 4092 TSEM, 4072 RF TSM, 4224 TSM, 4008 TSM, FM 4002 M matt lacquered matt snow white  LS 402 TSA WWM matt graphite black LS 402 TSA SWM
	Cover kit 3-gang to clip on F40 push-button modules 3-gang ref.-no.: 4073 TSM, 4193 TSM, 4093 TSEM, 4073 RF TSM, 4236 TSM, 4008 TSM, FM 4003 M matt lacquered matt snow white  LS 403 TSA WWM matt graphite black LS 403 TSA SWM




Matt lacquering LS range

Available
3rd quarter 2020

	Ref.-no.
	Cover kit 4-gang to clip on F40 push-button modules 4-gang ref.-no.: 4074 TSM, 4194 TSM, 4094 TSEM, 4074 RF TSM, 4248 TSM, 4008 TSM, FM 4004 M matt lacquered matt snow white  LS 404 TSA WWM matt graphite black LS 404 TSA SWM
	Cover kit to clip on room controller display compact module ref.-no.: 4093 KRM TS D matt lacquered matt snow white  LS 4093 TSA WWM matt graphite black LS 4093 TSA SWM
	1-gang rocker for KNX push-button 1-gang ref.-no.: LS CD 10711 ST, LS CD 10911 ST, LS CD 10911 TE matt lacquered matt snow white  LS 101 WWM matt graphite black LS 101 SWM
	1-gang rocker with lens for KNX push-button 1-gang ref.-no.: LS CD 10711 ST, LS CD 10911 ST matt lacquered matt snow white  LS 101 KO5 WWM matt graphite black LS 101 KO5 SWM
	2-gang rocker for KNX push-button 2-gang ref.-no.: LS CD 10721 ST, LS CD 10921 ST, LS CD 10921 TE matt lacquered matt snow white  LS 102 WWM matt graphite black LS 102 SWM
	2-gang rocker with lens for KNX push-button 2-gang ref.-no.: LS CD 10721 ST, LS CD 10921 ST matt lacquered matt snow white  LS 102 KO5 WWM matt graphite black LS 102 KO5 SWM















Matt lacquering LS range

Available
3rd quarter 2020

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 matt lacquered matt snow white LS 581 A WWM matt graphite black LS 581 A SWM
	
	2-gang, 152 x 81 x 47 mm matt lacquered matt snow white LS 582 A WWM matt graphite black LS 582 A SWM
	
	3-gang, 223 x 81 x 47 mm matt lacquered matt snow white LS 583 A WWM matt graphite black LS 583 A SWM

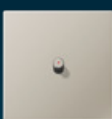
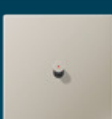

Matt lacquering LS range

Available
3rd quarter 2020

Ref.-no.	
	LS 990
	Frame for horizontal and vertical installation for LS range 1-gang 81 x 81 x 11 mm 2-gang 81 x 152 x 11 mm 3-gang 81 x 223 x 11 mm 4-gang 81 x 294 x 11 mm 5-gang 81 x 365 x 11 mm
	matt lacquered matt snow white 1-gang  LS 981 WWM 2-gang  LS 982 WWM 3-gang  LS 983 WWM 4-gang  LS 984 WWM 5-gang  LS 985 WWM
	matt graphite black 1-gang  LS 981 SWM 2-gang  LS 982 SWM 3-gang  LS 983 SWM 4-gang  LS 984 SWM 5-gang  LS 985 SWM
	
	
	LS ZERO
	Frame for the installation of devices and covers of the LS range into the plastering frame ref.-no.: PA 98.. for horizontal and vertical installation
	matt lacquered matt snow white 1-gang LSZ 981 BF WWM 2-gang LSZ 982 BF WWM 3-gang LSZ 983 BF WWM
	matt graphite black 1-gang LSZ 981 BF SWM 2-gang LSZ 982 BF SWM 3-gang LSZ 983 BF SWM
	
	



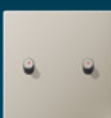
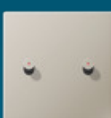

Illuminated toggle lever LS 1912

Available
July 2020

Ref.-no.	
	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..
	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
	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
	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

Illuminated toggle lever LS 1912

Available
July 2020

Ref.-no.	
	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) 1-pole 1-way with 2 LED lamps K 505 EU 5 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) 1-pole 1-way with 2 LED lamps K 505 KO EU 5 for centre plates with toggle lever ref.-no.: ..12-5 KO..
	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 "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 "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

Ref.-no.

Friends of Hue radio transmitters

- Smart switch for wireless remote control of Philips Hue and Friends of Hue lamps
- For switching, dimming and controlling individual light scenes
- Mounting on appliance box according to DIN 49073, screw fixing on walls or adhesive fixing on smooth, even surfaces (glass). Adhesive pad included.
- 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

Radio frequency: 2.402 ... 2.480 GHz
Transmission range
in free field: up to 75 m
in buildings: approx. 20 m
Transmitting power: 7 dBm / 5 mW
Ambient temperature: -5 ... +45 °C
Storage/transport temperature: -25 ... +65 °C

A range

Friends of Hue radio transmitter set

4-channel
max. 4 light scenes
including A550 frame ref.: A 5581 BF WW

Thermoplastic (breakproof) high-gloss
white **FOHS A 550 595 WW**

LS range

Friends of Hue radio transmitter set

4-channel
max. 4 light scenes
including LS990 frame ref.: LS 981 WW

Thermoplastic (breakproof) high-gloss
white **FOHS LS 995 WW**



Ref.-no.

Bluetooth Low Energy radio transmitters

- Smart switch for wireless device control using wireless standard Bluetooth Low Energy (BLE)
- For switching, dimming and controlling individual light scenes
- Mounting on appliance box according to DIN 49073, screw fixing on walls or adhesive fixing on smooth, even surfaces (glass). Adhesive pad included.
- 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 code
- Compatible with these wireless Bluetooth systems: Casambi, XICATO Controls, Häfele Connect, WiZ Pro, 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

Radio frequency: 2.402 ... 2.480 GHz
Transmission range
in free field: up to 75 m
in buildings: approx. 10 m
Transmitting power: 0.4 dBm / 1.1 mW
Ambient temperature: -5 ... +45 °C
Storage/transport temperature: -25 ... +65 °C

A range

Bluetooth Low Energy radio transmitter

2-channel
Thermoplastic (breakproof) high-gloss
white **BLE A 590 WW**
Thermoplastic (breakproof) lacquered
matt anthracite **BLE A 590 ANM**

Bluetooth Low Energy radio transmitter

4-channel
Thermoplastic (breakproof) high-gloss
white **BLE A 595 WW**
Thermoplastic (breakproof) 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**

Bluetooth Low Energy radio transmitter

4-channel
Thermoplastic (breakproof) high-gloss
white **BLE LS 995 WW**
black **BLE LS 995 SW**


















KNX push-buttons F 10

	<p>KNX push-button</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, colour values, calling up and saving light scenes, etc. • Installation in flush box according to DIN 49073 <p>Standard</p> <p>Product characteristics</p> <ul style="list-style-type: none"> • 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 • Compatible with KNX Data-Secure products <p>Universal</p> <p>Product characteristics</p> <ul style="list-style-type: none"> • 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 • Compatible with KNX Data-Secure products <p>Extension</p> <p>Product characteristics</p> <ul style="list-style-type: none"> • 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
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











KNX push-buttons F 10 AS range

Available
June 2020

Ref.-no.	
	KNX push-button standard 1-gang A 10711 ST
	KNX push-button universal 1-gang 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
























KNX push-buttons F 10 AS range

Available
June 2020

	Ref.-no.
	KNX push-button standard 2-gang A 10721 ST
	KNX push-button universal 2-gang A 10921 ST
	KNX push-button extension 2-gang A 10921 TE
	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
	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
	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
	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

KNX push-buttons F 10 A range







Available June 2020,
matt snow white and matt graphite black
3rd quarter 2020

	Ref.-no.
	KNX push-button standard 1-gang A 10711 ST
	KNX push-button universal 1-gang 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 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
	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 anthracite A 101 P BF ANM
	1-gang rocker with lens for KNX push-button 1-gang ref.-no.: A 10711 ST, A 10911 ST Duroplastic (scratch-proof) glossy white  A 101 KO5 WW black A 101 KO5 SW Duroplastic lacquered aluminium   A 101 KO5 AL champagne  A 101 KO5 CH mocha A 101 KO5 MO Thermoplastic (breakproof) high-gloss white  A 101 KO5 BF WW black  A 101 KO5 BF SW 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

KNX push-buttons F 10

A range



Available June 2020,
matt snow white and matt graphite black
3rd quarter 2020

	Ref.-no.
	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 white A 101 KO5P WW black A 101 KO5P SW Duroplastic lacquered aluminium A 101 KO5P AL champagne A 101 KO5P CH mocha A 101 KO5P MO Thermoplastic (breakproof) high-gloss white A 101 KO5P BF WW black A 101 KO5P BF SW matt lacquered matt anthracite A 101 KO5P BF ANM
	KNX push-button standard 2-gang A 10721 ST
	KNX push-button universal 2-gang A 10921 ST
	KNX push-button extension 2-gang A 10921 TE
	2-gang rocker for KNX push-button 2-gang ref.-no.: A 10721 ST, A 10921 ST, A 10921 TE Duroplastic (scratch-proof) glossy white A 102 WW black A 102 SW Duroplastic lacquered aluminium A 102 AL champagne A 102 CH mocha A 102 MO Thermoplastic (breakproof) high-gloss white A 102 BF WW black A 102 BF SW matt lacquered matt snow white A 102 BF WWM matt graphite black A 102 BF SWM matt anthracite A 102 BF ANM
	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 white A 102 P WW black A 102 P SW Duroplastic lacquered aluminium A 102 P AL champagne A 102 P CH mocha A 102 P MO Thermoplastic (breakproof) high-gloss white A 102 P BF WW black A 102 P BF SW matt lacquered matt anthracite A 102 P BF ANM

KNX push-buttons F 10


















A range

Available June 2020,
matt snow white and matt graphite black
3rd quarter 2020

	Ref.-no.
	2-gang rocker with lens for KNX push-button 2-gang ref.-no.: A 10721 ST, A 10921 ST Duroplastic (scratch-proof) glossy white A 102 KO5 WW black A 102 KO5 SW Duroplastic lacquered aluminium A 102 KO5 AL champagne A 102 KO5 CH mocha A 102 KO5 MO Thermoplastic (breakproof) high-gloss white A 102 KO5 BF WW black A 102 KO5 BF SW 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
	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 white A 102 KO5P WW black A 102 KO5P SW Duroplastic lacquered aluminium A 102 KO5P AL champagne A 102 KO5P CH mocha A 102 KO5P MO Thermoplastic (breakproof) high-gloss white A 102 KO5P BF WW black A 102 KO5P BF SW matt lacquered matt anthracite A 102 KO5P BF ANM


















KNX push-buttons F 10 CD range

Available
June 2020

	Ref.-no.
	KNX push-button standard 1-gang LS CD 10711 ST
	KNX push-button universal 1-gang LS CD 10911 ST
	KNX push-button extension 1-gang LS CD 10911 TE
	1-gang rocker for KNX push-button 1-gang ref.-no.: LS CD 10711 ST, LS CD 10911 ST, LS CD 10911 TE 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 for KNX push-button 1-gang ref.-no.: LS CD 10711 ST, LS CD 10911 ST, LS CD 10911 TE 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
	1-gang rocker with lens for KNX push-button 1-gang ref.-no.: LS CD 10711 ST, LS CD 10911 ST 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 for KNX push-button 1-gang ref.-no.: LS CD 10711 ST, LS CD 10911 ST 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-buttons F 10 CD range

Available
June 2020

	Ref.-no.
	KNX push-button standard 2-gang LS CD 10721 ST
	KNX push-button universal 2-gang 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  CD 102 white  CD 102 WW brown CD 102 BR grey CD 102 GR light grey  CD 102 LG black CD 102 SW metal versions (anodized aluminium) gold-bronze  CD 102 GB platinum  CD 102 PT
	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 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 versions (anodized aluminium) gold-bronze CD 102 P GB platinum CD 102 P PT
	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  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 versions (anodized aluminium) gold-bronze  CD 102 K05 GB platinum  CD 102 K05 PT
	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 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 versions (anodized aluminium) gold-bronze CD 102 K05P GB platinum CD 102 K05P PT













KNX push-buttons F 10 LS range

Available June 2020,
matt snow white and matt graphite black
3rd quarter 2020

	Ref.-no.
	KNX push-button standard 1-gang LS CD 10711 ST
	KNX push-button universal 1-gang LS CD 10911 ST
	KNX push-button extension 1-gang LS CD 10911 TE
	1-gang rocker for KNX push-button 1-gang ref.-no.: LS CD 10711 ST, LS CD 10911 ST, LS CD 10911 TE Duroplastic (scratch-proof) glossy ivory  LS 101 white  LS 101 WW light grey  LS 101 LG black LS 101 SW matt lacquered matt snow white  LS 101 WWM matt graphite black LS 101 SWM 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
	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 Duroplastic (scratch-proof) glossy ivory LS 101 P white LS 101 P WW light grey LS 101 P LG black LS 101 P SW 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

KNX push-buttons F 10 LS range

Available June 2020,
matt snow white and matt graphite black
3rd quarter 2020

	Ref.-no.
	1-gang rocker with lens for KNX push-button 1-gang ref.-no.: LS CD 10711 ST, LS CD 10911 ST Duroplastic (scratch-proof) glossy ivory  LS 101 KO5 white  LS 101 KO5 WW light grey  LS 101 KO5 LG black LS 101 KO5 SW matt lacquered matt snow white  LS 101 KO5 WWM matt graphite black LS 101 KO5 SWM 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
	1-gang rocker with lens and arrow symbols for KNX push-button 1-gang ref.-no.: LS CD 10711 ST, LS CD 10911 ST Duroplastic (scratch-proof) glossy ivory LS 101 KO5P white LS 101 KO5P WW light grey LS 101 KO5P LG black LS 101 KO5P SW 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

KNX push-buttons F 10 LS range

Available June 2020,
matt snow white and matt graphite black
3rd quarter 2020

Ref.-no.



KNX push-button standard 2-gang

LS CD 10721 ST



KNX push-button universal 2-gang

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

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

KNX push-buttons F 10 LS range

Available June 2020,
matt snow white and matt graphite black
3rd quarter 2020

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

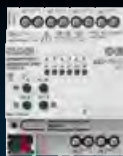
Duroplastic (scratch-proof) glossy

ivory LS 102 KO5P
white LS 102 KO5P WW
light grey LS 102 KO5P LG
black LS 102 KO5P SW

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

<p>KNX switch / blinds actuators</p> <p>Intended use</p> <ul style="list-style-type: none"> Switching of electrical loads with floating contacts Switching of electrically-driven blinds, shutters, awnings and similar hangings Mounting on DIN rail according to EN 60715 in distribution boxes <p>Product characteristics</p> <ul style="list-style-type: none"> Outputs can be operated manually, construction site mode Feedback in manual mode and in bus mode Disabling of individual outputs manually or by bus Central functions Cyclical monitoring Compatible with KNX Data-Secure products Can be updated with the ETS Service App <p>Characteristics switching operation</p> <ul style="list-style-type: none"> Operation as NO or NC contacts Feedback function Logic operation and forcing function Central switching function with collective feedback Time functions: switch-on delay, switch-off delay, staircase lighting timer with pre-warning function Scene function Operating hours counter <p>Characteristics blinds operation</p> <ul style="list-style-type: none"> Suitable for 230 V AC motors Operation modes 'Blind with slats', 'Shutter/awning', 'Ventilation flap/skylight' Blind/shutter position directly controllable Slat position directly controllable Feedback of movement status, blind/shutter position and slat position Cyclical feedback during movement Forced position through higher-level controller Safety function: 3 independent wind alarms, rain alarm, frost alarm Sun protection function with auto Heating/Cooling Scene function <p>Logic functions</p> <ul style="list-style-type: none"> Up to 8 independent logic operations can be set Logic gate with up to 4 inputs, e.g. for AND, OR and XOR operations Conversion of data point types, e.g. from 1-bit to 8-bit Blocking element: filter / time Comparative operations, e.g. <, >, ≤, ≥ Limit switch with hysteresis

Ref.-no.
 <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 ETS product family: Output Product type: Binary output</p> <p>23006 1S R</p> <p>Ambient temperature: -5 ... +45 °C Storage/transport temperature: -25 ... +70 °C KNX Rated voltage KNX: DC 21 ... 32 V SELV Current consumption KNX: 4 ... 18 mA Outputs Switching voltage: AC 250 V ~ Switching current AC1 (cos φ > 0.8): 16 A Fluorescent lamps: 16 AX Current carrying capacity Neighbouring outputs: Σ 20 A Loads per output Ohmic load: 3000 W Capacitive load: 16 A / 140 µF Motors: 1380 VA Switch-on current 200 µs: max. 800 A Switch-on current 20 ms: max. 165 A Lamp loads 230 V Incandescent lamps: 3000 W HV halogen lamps: 2500 W HV LED lamps: max. 400 W LV halogen lamps with electronic transformers: 1500 W inductive transformers: 1200 VA Fluorescent lamps T5/T8 non-compensated: 1000 W parallel compensated: 1160 W / 140 µF Compact fluorescent lamps non-compensated: 1000 W parallel compensated: 1160 W / 140 µF Mercury vapour lamps non-compensated: 1000 W parallel compensated: 1160 W / 140 µF Mounting width: 72 mm (4 rail units) Connection, power supply and load Connection mode: screw terminals single wire: 0.5 ... 4 mm² stranded without ferrule: 0.5 ... 4 mm² stranded with ferrule: 0.5 ... 2.5 mm²</p>

Ref.-no.

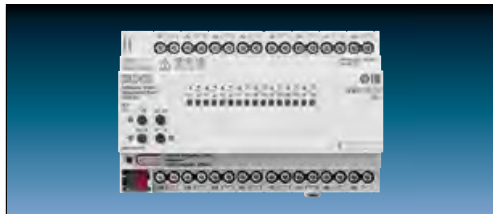
KNX switch actuator 16-gang

KNX blinds actuator 8-gang

Rail mounting device, 8 rail units
with manual electronic operation and LED status indication
ETS product family: Output
Product type: Binary output

23016 1S R

Ambient temperature:	-5 ... +45 °C
Storage/transport temperature:	-25 ... +70 °C
KNX	
Rated voltage KNX:	DC 21 ... 32 V SELV
Current consumption KNX:	4 ... 18 mA
Outputs	
Switching voltage:	AC 250 V ~
Switching current AC1 (cos φ > 0.8):	16 A
Fluorescent lamps:	16 AX
Current carrying capacity	
Neighbouring outputs:	Σ 20 A
Loads per output	
Ohmic load:	3000 W
Capacitive load:	16 A / 140 μ F
Motors:	1380 VA
Switch-on current 200 μ s:	max. 800 A
Switch-on current 20 ms:	max. 165 A
Lamp loads 230 V	
Incandescent lamps:	3000 W
HV halogen lamps:	2500 W
HV LED lamps:	max. 400 W
LV halogen lamps with	
electronic transformers:	1500 W
inductive transformers:	1200 VA
Fluorescent lamps T5/T8	
non-compensated:	1000 W
parallel compensated:	1160 W / 140 μ F
Compact fluorescent lamps	
non-compensated:	1000 W
parallel compensated:	1160 W / 140 μ F
Mercury vapour lamps	
non-compensated:	1000 W
parallel compensated:	1160 W / 140 μ F
Mounting width:	144 mm (8 rail units)
Connection, power supply and load	
Connection mode:	screw terminals
single wire:	0.5 ... 4 mm ²
stranded without ferrule:	0.5 ... 4 mm ²
stranded with ferrule:	0.5 ... 2.5 mm ²



Ref.-no.

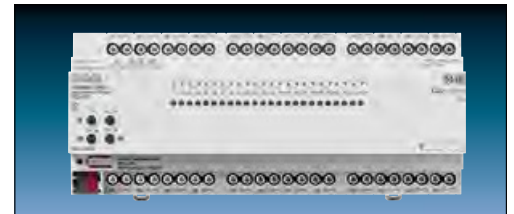
KNX switch actuator 24-gang

KNX blinds actuator 12-gang

Rail mounting device, 12 rail units
with manual electronic operation and LED status indication
ETS product family: Output
Product type: Binary output

23024 1S R

Ambient temperature:	-5 ... +45 °C
Storage/transport temperature:	-25 ... +70 °C
KNX	
Rated voltage KNX:	DC 21 ... 32 V SELV
Current consumption KNX:	4 ... 24 mA
Outputs	
Switching voltage:	AC 250 V ~
Switching current AC1 (cos φ > 0.8):	16 A
Fluorescent lamps:	16 AX
Current carrying capacity	
Neighbouring outputs:	Σ 20 A
Loads per output	
Ohmic load:	3000 W
Capacitive load:	16 A / 140 μ F
Motors:	1380 VA
Switch-on current 200 μ s:	max. 800 A
Switch-on current 20 ms:	max. 165 A
Lamp loads 230 V	
Incandescent lamps:	3000 W
HV halogen lamps:	2500 W
HV LED lamps:	max. 400 W
LV halogen lamps with	
electronic transformers:	1500 W
inductive transformers:	1200 VA
Fluorescent lamps T5/T8	
non-compensated:	1000 W
parallel compensated:	1160 W / 140 μ F
Compact fluorescent lamps	
non-compensated:	1000 W
parallel compensated:	1160 W / 140 μ F
Mercury vapour lamps	
non-compensated:	1000 W
parallel compensated:	1160 W / 140 μ F
Mounting width:	216 mm (12 rail units)
Connection, power supply and load	
Connection mode:	screw terminals
single wire:	0.5 ... 4 mm ²
stranded without ferrule:	0.5 ... 4 mm ²
stranded with ferrule:	0.5 ... 2.5 mm ²



Ref.-no.

**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**Intended use**

- Controlling of luminaires and other applications with DALI operating device in KNX installations e.g. electronic ballast
- Mounting on DIN rail according to EN 60715 in distribution boxes

Product characteristics

- Control of up to 64 DALI devices in up to 32 groups
- Setting of colour temperature for luminaires with DALI Device Type 8 for tunable white acc. to IEC 62386-209
- Suitable for operation in emergency lighting systems
- Individual, group or central addressing
- 16 light scenes
- Effect control for dynamic lighting effects or colour games
- Read out DALI device state via KNX, e.g. brightness or luminaire error
- Manual operation of the DALI groups
- Restraint function
- Feedback of switching state and brightness value in bus and manual mode
- Collective feedback
- Central switching function
- Disabling function for each DALI group
- Separate ON and OFF delay
- Staircase lighting timer with pre-warning function
- Corridor function: when combined with motion detectors, reduced continuous lighting, if no motion is detected
- Online or offline project design of the DALI devices with ETS plug-in
- Short-circuit protection
- Surge voltage protection
- Overload protection
- Operating hours counter
- Signal of the global switching status of the DALI devices, e.g. to switch off the mains voltage of the DALI devices to avoid standby losses
- An individual DALI device can be exchanged during operation without software
- Linear or logarithmic dimming characteristic can be selected

Rated voltage:	AC 110 ... 240 V ~, 50/60 Hz
Rated voltage:	DC 110 ... 240 V
Power loss:	max. 3 W
Ambient temperature:	-5 ... +45 °C
Storage/transport temperature:	-25 ... +70 °C
Rated voltage DALI:	DC 16 V
Number of DALI devices:	max. 64
DALI transmission rate:	1.2 kbit/s
DALI protocol:	EN 62386
Cable type:	Sheathed cable 230 V, e.g. NYM
Cable length DALI	
with 1.5 mm ² :	max. 300 m
with 1.0 mm ² :	max. 238 m
with 0.75 mm ² :	max. 174 m
with 0.5 mm ² :	max. 116 m
Mounting width:	72 mm (4 rail units)
Connection, power supply and DALI	
Connection mode:	screw terminals
single wire:	0.5 ... 4 mm ²
stranded without ferrule:	0.5 ... 4 mm ²
stranded with ferrule:	0.5 ... 2.5 mm ²
KNX medium:	TP 256
Rated voltage KNX:	DC 21 ... 32 V SELV
Power consumption KNX:	typical 150 mW
Connection, KNX:	terminal

Ref.-no.

**Presence detector mini with integrated BCU**

ETS product family: Physical sensors
Product type: Movement
New in V 02: with temperature measurement

Universal

white

**3361-1 M WW****Intended use**

- Requirement-oriented control of lighting, room thermostats and other electrical loads in interior rooms
- Clamp mounting in suspended ceilings
- Ceiling installation on fixed ceilings in appliance box according to DIN 49073 with flush mounting set (ref.-no.: PMM-UP-SET-WW)
- Surface-mounted ceiling installation with surface mounting set (ref.-no.: PMM-AP-SET-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

Rated voltage KNX:	DC 21 ... 32 V SELV
Current consumption KNX:	max. 10 mA
Connection bus:	terminal
Protection class:	III
Ambient temperature:	-25 ... +55 °C
Storage/transport temperature:	-25 ... +70 °C
Relative humidity:	10 ... 100 % (no condensation)
Protection level:	IP 44
Ceiling cut-out (Ø x D):	44 x 35 mm
Dimensions (Ø x H):	53.5 x 38 mm (with design ring)
Max. thickness of the suspended ceiling:	approx. 25 mm
Installation depth:	min. 35 mm
Distance between concrete ceiling and suspended ceiling:	min. 20 mm
Design ring Ø inside:	35.6 mm
Design ring Ø outside:	53.5 mm
Profile height design ring:	1.8 mm
Profile height lens:	5.5 mm
Motion detection	
Detection angle:	360°
Range:	Ø approx. 12 m (mounting height 3 m)
Brightness sensor	
Measuring range:	10 ... 2,000 lx
Accuracy (≤ 80 lx):	± 10 lx
Accuracy (> 80 lx):	± 5 %

Ref.-no.

Power supply with IP interface

Rail mounting device, 6 rail units
ETS product family: System components
Product type: Power supply

20320 1S IPS R

Intended use

- Supplying KNX devices with bus voltage
- Connection between KNX devices and PC or other data processing devices via IP
- Operation as data interface
- Mounting on DIN rail according to EN 60715 in distribution boxes

Product characteristics

- Output with integrated choke for supplying KNX bus lines
- Reset of KNX lines via reset button or communication object
- Short-circuit proof
- Overvoltage proof
- No-load protection
- Support of KNX Data Secure from ETS version 5.7 upwards
- Support of KNX IP Secure from ETS version 5.7 upwards
- LED display for KNX communication, Ethernet communication and programming mode
- Configuration via ETS
- SNTP server
- Max. 8 connections to IP terminal devices, e.g. for simultaneous visualisation and configuration
- Electrical isolation between KNX and IP network
- Presence control: with key card holder or presence detector
- Welcome/Goodbye scenes

Rated voltage: AC 110 ... 240 V ($\pm 10\%$), 50/60 Hz

Power loss: max. 1.4 W

Efficiency: approx. 88 %

Rated voltage: DC 230 V ($\pm 10\%$)

Rated capacity: 12 W

KNX

KNX medium: TP 256

Bus output voltage: DC 28 ... 31 V SELV

Output current: 320 mA

Short-circuit current: max. 1 A

Parallel operation with identical

power supply: no

IP communication: Ethernet 10/100 BaseT (10/100 Mbit/s)

IP connection: RJ45 socket

Ambient temperature: $-5 \dots +45\text{ }^{\circ}\text{C}$

Storage/transport temperature: $-25 \dots +75\text{ }^{\circ}\text{C}$

Relative humidity: max. 93 % (no condensation)

Mounting width: 108 mm (6 rail units)

Terminals

Connection mode: screw terminals

single wire: 1 ... 4 mm²

stranded without ferrule: 1 ... 4 mm²

stranded with ferrule: 1 ... 2.5 mm²



Ref.-no.



Remote access licence

for IP interface ref.-no.: IPS 300 SREG

IPS-L

Remote access to the building technology via JUNG server in Germany.

In combination with IP interface (ref.-no. IPS 300 SREG) V05 or higher:

- 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

Terms and Conditions of Sale and Supply

I. General provisions

- 1) The mutual written declarations shall determine the scope of the supplies and services (hereinafter: supplies). However, General Terms and Conditions of Business on the part of the customer shall only apply insofar as we have expressly approved the same in writing.
- 2) We shall unrestrictedly reserve our exploitation rights under proprietary right and copyright law to cost estimates, drawings and other documents (hereinafter: documents). Such documents may only be rendered accessible to third parties with our prior consent and, upon request, shall, in the event that we should not be awarded the commission, be returned to us without delay. Sentences 1 and 2 shall apply mutatis mutandis to the customer's submissions, though such submissions may be rendered accessible to third parties to whom we have admissibly assigned responsibility for supplies.
- 3) Partial supplies shall be admissible insofar as the customer may be reasonably expected to accept the same.

II. Prices and Terms and Conditions of Payment

- 1) Prices shall be understood to be ex-works excluding packaging and plus the statutory sales tax obtaining at any given time.
- 2) Packaging shall be invoiced at the lowest possible prices and shall not be taken back.
- 3) Insofar as nothing is agreed to the contrary, payment shall, irrespective of the receipt of the goods involved, be made to us net within thirty days of the invoice date or within eight days with a 2 % discount. In the event that the payment deadline should be exceeded interest shall, without a reminder being required, be calculated pursuant to § 288 German Civil Code.
- 4) We shall be entitled to request advance payments in respect of the invoice amounts at any time prior to the dispatch of goods insofar as we deem such a step to be necessary. Should the customer default on the fulfillment of payment obligations or should the information pertaining to a customer no longer be satisfactory, we shall be entitled to request security for delivered goods or, once a payment deadline has been set, withdraw from the purchase contract.
- 5) The customer may only offset receivables which are undisputed or have been established on a legally binding basis.

III. Reservation of title

Goods shall be supplied subject to reservation of title involving the following extensions:

- 1) All supplied goods shall remain our property until such time as our claims vis-à-vis the customer, including any such claims which may arise from the business link in the future, are settled in full and for such time as the account, including the bill and cheque commitments, has not been settled. This shall also apply in the event that the purchase price for certain deliveries of goods specified by the customer is to be paid. In the case of a current account, the reserved title shall constitute security for our balance claim.
- 2) The customer shall be revocable and, as long as they fulfil their obligations vis-à-vis ourselves and affording consideration to the following provisions, entitled to sell and process during the normal course of business goods which are encumbered with reservation of title. However, the customer shall be forbidden from pledging or assigning as security goods subject to reservation of title which are supplied or processed. The customer shall, insofar as this is compatible with commercial practices, likewise undertake only to resell reserved goods which we have supplied in conjunction with reservation of title. Upon justified request and in the case of default, the customer shall be obliged to apprise us of the name of the third party customer.
- 3) Insofar as goods encumbered with reservation of title are processed, such processing shall, though without any guarantee on our part, be effected for us. In the event of processing by the customer in conjunction with goods which are not our property, we shall be entitled to co-ownership of the new object at the ratio of the value of the reserved goods to the other processed goods on the processing date.
- 4) In the event that goods which we have supplied should be combined with other goods, we shall acquire co-ownership of the amount of the ratio of the value of the reserved goods in the combination date.
- 5) Should the customer sell reserved goods which we have supplied or should such goods be supplied to a third party – irrespective of what value or in which condition – or should such goods be installed within the framework of a work, work performance or a construction contract, the customer shall, until such time as the claims stipulated in subsection 1) are settled in full, hereby assign to us, to the amount of the invoice value of our deliveries, the claim, together with all ancillary rights, including the compensation claims accruing to them from the legal transaction involving the resale or installation, accruing to them vis-à-vis their customer or buyer from such sale, delivery or instalment. In the event of an assignment being obtained in such work, work performance or construction contract and in the event of payment default, the customer shall undertake to apprise their third party customers of the advance assignment.
- 6) In the event that reserved goods which we have supplied should be sold to third parties in conjunction with other goods, we shall be assigned that proportion of the total asking price corresponding to the invoice value of our deliveries.
- 7) The reservation of title with the extensions pursuant to the above provision shall also remain in force in the event of individual claims against their customer on the part of the customer being included in the current account. In this case, the customer shall, at this early juncture, assign to us the balance obtaining to their credit. The customer shall, upon request and particularly in the event of payment default on the part of the purchaser, be obliged to facilitate the direct assertion of the claims involved and apprise the third party debtor of the assignment.
- 8) We shall be appraised without delay of any attachment and every kind of restriction which obtain in respect of our property. In the event that the value of the overall collateral stemming from the business link with which we have been furnished should exceed our delivery claims by more than 20 %, we shall, at the request of the purchaser, be obliged to reassign the assigned claims to such extent.
- 9) In the event of any incidence of damage or other impairment to the equipment supplied on the basis of our terms and conditions, the purchaser shall, at this early juncture, assign to us in advance the compensation claim accruing to them vis-à-vis the insurer from their insurance to the amount of the incidence of damage in question to our reserved property.

IV. Deadline for deliveries; default

- 1) The deadline for deliveries or services shall commence on the day on which written agreement pertaining to the order in question obtains between the customer and ourselves. The observance of such deadline shall presuppose the prompt receipt of all the documents, requisite licences and releases to be furnished by the customer, the prompt clarification and approval of the plans and the observance of the agreed Terms of Conditions of Payment and other obligations. Should these prerequisites not be fulfilled on time, the delivery deadline shall be extended by an adequate period of time; this shall not apply in the event that we should be responsible for a delay.
- 2) Should the non-observance of deadlines be attributable to force majeure, such as mobilization, war civil commotion or similar occurrences, e.g. strike or lockout, delivery deadlines shall be extended by adequate periods of time.
- 3) In the event that dispatch or delivery should, at the behest of the customer, be delayed by more than one month following notification of dispatch readiness, the customer may, for every started month, be invoiced storage costs to the amount of 0.5 % of the price of the delivery objects, though no more than a total of 5 %.

The contracting parties shall be at liberty to prove that lower or higher storage costs have accrued.

V. Transfer of risk

The risk shall also pass to the customer in the event that carriagepaid delivery should have been agreed. In the absence of a written arrangement to the contrary, dispatch shall always be effected according to our best judgement. We shall not assume any responsibility for transportation at market prices. We shall only arrange transport insurance policies the costs of which are borne by the purchaser upon express, written agreement.

VI. Acceptance

The customer may not refuse to accept deliveries on the grounds of the existence of minor defects.

VII. Material defects

- 1) The prerequisite for the assertion of material defects liability shall be the submission to us or our authorized representative of proof of acquisition (delivery note, invoice, etc.). The warranty entitlement may not be transferred to third parties without our consent.
- 2) All those components or services shall, as we see fit, be repaired, resupplied or refurbished which feature a material defect within the limitation period – irrespective of operating life – insofar as the origin of the same obtained at the point in time of transfer of risk.
- 3) Material defects claims shall lapse after twelve month. This shall not apply insofar as the law pursuant to §§ 438, paragraph 1, no. 2 (constructions and objects for constructions), 479, paragraph 1 (claim under a right of recourse) and 634a, paragraph 1, no. 2 (construction defects) German Civil Code makes provision for longer periods of time, in instances of injury to life, body or health, in the event of a wilful or grossly negligent breach of duty on our part and in the event of the malicious nondisclosure of a defect. The statutory provisions pertaining to the suspension of the running of a period, suspension and re-commencement of periods shall remain unaffected.
- 4) The customer shall submit complaints pertaining to material defects to us in writing without delay.
- 5) In the event of notifications of defects, payment on the part of the customer may be withheld on a scale which is in a reasonable ratio to the material defects which have occurred. The customer may only withhold payments should a complaint be asserted the justification of which is beyond doubt. Should a complaint have been submitted without justification, we shall be entitled to request the that customer reimburse the costs which we incurred.
- 6) In the first instance, we shall be granted the opportunity to effect subsequent fulfillment within a reasonable period of time.
- 7) Should such subsequent fulfillment be unsuccessful, the customer – any compensation claims pursuant to subsection IX notwithstanding – may withdraw from the contract or reduce the amount of payment.
- 8) Claims arising from defects shall not obtain in respect of a minor deviation from an agreed quality, a minor impairment to usefulness, natural wear and tear or incidences of prejudice which arise subsequent to the risk transfer in consequence of faulty or negligent handling, excessive strain, unsuitable operating facilities, faulty construction operations, unsuitable subsoil and, in particular, any external influences which are not presupposed by the contract, as well as in respect of non-reproducible software defects. In the event that modifications or maintenance operations should be improperly performed by the customer or any third parties, it shall likewise be the case that no claims arising from defects shall obtain for such modifications and maintenance operations or any resulting consequences.
- 9) Any claims on the part of the customer for expenditure which it is necessary to incur for subsequent fulfilment purposes, particularly transport, travelling, labour and material costs, shall be excluded insofar as such expenditure increases due to the fact that a delivery object has been subsequently transported to a location other than the customer's business premises unless such transportation is in line with the normal utilization of such object.
- 10) Claims under rights of recourse vis-à-vis ourselves on the part of the customer pursuant to § 478 German Civil Code (contractor's recourse) shall only obtain insofar as the customer has not agreed any arrangements with their customer exceeding the scope of the statutory claims arising from defects.
- No. 9 shall additionally apply mutatis mutandis to the scope of the customer's claim under a right of recourse vis-à-vis ourselves pursuant to § 478, paragraph 1 German Civil Code.
- 11) It should be noted that subsection IX (other compensation claims) shall apply to compensation claims. Any more farreaching claims for a material defect against us and our vicarious agents on the part of the customer and any claims for a material defect against us and our vicarious agents on the part of the customer other than those stipulated in subsection VII shall be excluded.

VIII. Impossibility, contractual revision

- 1) Insofar as a delivery is impossible the customer shall be entitled to claim compensation unless we are not responsible for such impossibility. However, the customer's entitlement to compensation shall be restricted to 10 % of the value of that component of the delivery which cannot be put into appropriate operation in consequence of such impossibility. This entitlement shall not apply insofar as, in cases of wilful intent, gross negligence or injury to life, body or health, compulsory liability obtains; this shall not entail a change in the burden of proof to the detriment of the customer. The right of the customer to withdraw from the contract shall remain unaffected.
- 2) Insofar as any unforeseeable occurrences within the purport of subsection IV, no. 2 considerably alter the economic importance or the object of a delivery or exercise a major influence on our operations, the contract shall be suitably revised in compliance with the principle of good faith. Insofar as this is not economically justifiable, we shall be entitled to withdraw from the contract. In the event that we should wish to exercise this right of withdrawal, we shall apprise the customer accordingly without delay upon becoming cognizant of the implications of the occurrence in question, including in the event that an extension of the delivery period should initially have been agreed with the customer.

IX. Other compensation claims

- 1) Claims for compensation and claims for the compensation of expenses (hereinafter: compensation claims), irrespective of on which legal grounds, particularly for a breach of the duties arising from the contractual obligation and for tortious acts, shall be excluded.
- 2) This shall not apply insofar as compulsory liability obtains, e.g. pursuant to the Product Liability Act, in cases of wilful intent, gross negligence, injury to life, body or health and a breach of major contractual obligations. However, a claim to compensation for a breach of major contractual obligations shall be restricted to the contractually typical, foreseeable prejudice insofar as wilful intent or gross negligence do not obtain or liability obtains due to injury to life, body or health. The above stipulations shall not entail a change in the burden of proof to the detriment of the customer.
- 3) Insofar as the customer is entitled to compensation claims pursuant to subsection IX, such claims shall lapse upon the expiry of the limitation period pursuant to subsection VII, no. 3 applying to claims for material defects. In the case of compensation claims pursuant to the Product Liability Act, the prevailing statutory limitation provisions shall apply.

X. Diagrams, measurements and weights

Diagrams, measurements and weights shall always be regarded as approximate.

XI. Place of performance, place of jurisdiction and applicable law

- 1) Insofar as nothing to the contrary is agreed, the place of performance shall be Schalksmühle.
- 2) In the event of the customer being a businessman, the sole place of jurisdiction for all disputes arising directly or indirectly from the contractual relationship shall be Hagen. However, we shall also be entitled to institute legal proceedings at the place of domicile of the customer.
- 3) German substantive law shall, to the exclusion of the UN Convention on Contracts pertaining to the International Sale of Goods (CISG), apply to the legal relations obtaining in connection with this contract.

XII. The remaining provision of the contract shall continue to have binding force even in the event of the legal invalidity of any of the individual provisions contained in the same. This shall not apply in the event of adherence to the contract constituting unreasonable hardship for one of the contracting parties.

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