

Blue-control

For the intelligent networked building



Clever sein.
Kopp einschalten.

Kopp

The Heinrich Kopp GmbH – a leading manufacturer of electrical installation material.

With the development and production of innovative smart home solutions, motion and presence detectors, as well as a wide range of switch ranges with a high design standard, Kopp offers a large product portfolio for electrical installations in the specialized trade. A large part of our products are manufactured in-house in Germany. In addition, the company manufactures individual solutions for industrial customers. Kopp is integrated into the strong Alfamar Group, an internationally active group with a high level of expertise in the field of electrical engineering.

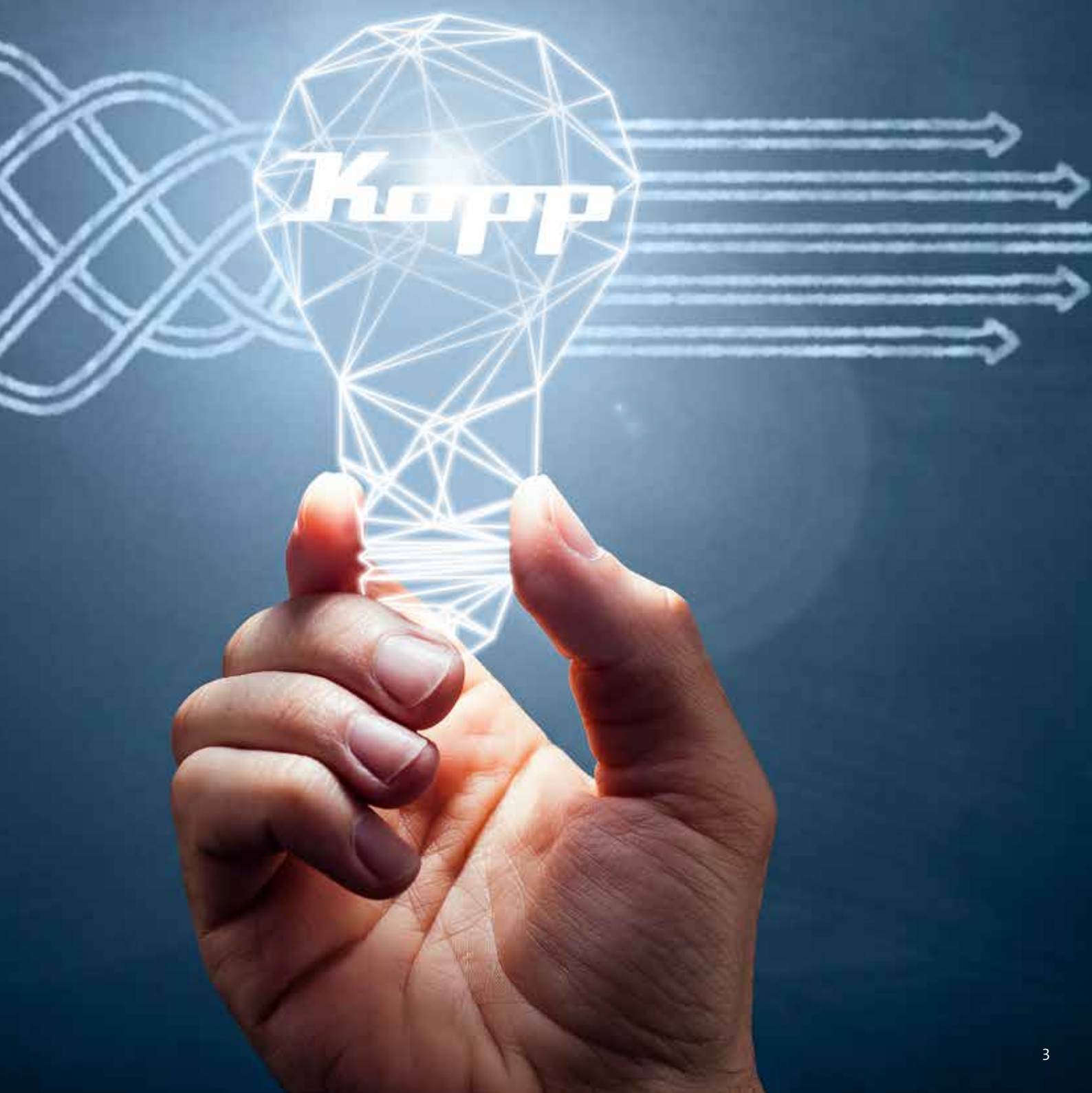







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Convenient, efficient, future-proof

Smart home solutions with Blue-control – step by step to the smart home.

The heart of the smart solution are the Hybrid-Smart-Switches as well as the actuators, which connect to a network and implement the received commands. Switching lights on, off or dimming them, changing the color of LED strip lights, lower or raise blinds and shutters, slat positioning – the applications are many.

The easiest way to control the commands is manually or by stored automation via the Kopp HomeConnect app. Via the Hybrid-Smart-Switch and the self-powered wall switch can still be used to dim or switch lights in the classic way.

No gateway and no internet connection are required to enter the smart home system. Actuators and the Hybrid-Smart-Switch connect effortlessly via the Bluetooth wireless technology directly with the app. There's no easier way to get started with smart home.

Control the smart home while on the move?

No problem with the Blue-control gateway. The gateway can be integrated into the existing Smart Home network and can then be controlled and monitored from anywhere via an app.







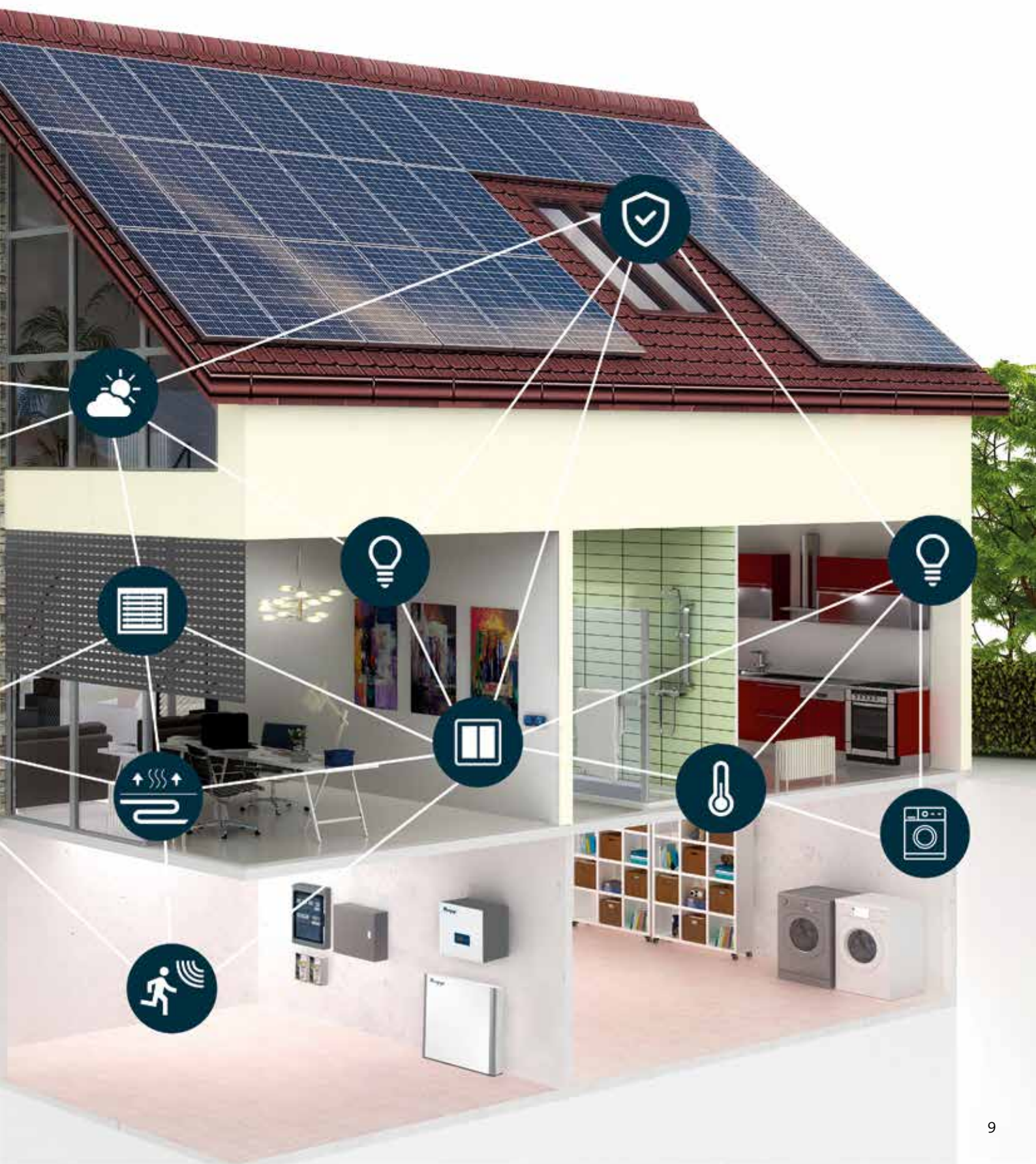
Blue-control is characterised by:

- ✓ Operation without gateway or internet connection, thanks to directly integrable actuators and Hybrid-Smart-Switch into the Kopp HomeConnect App
- ✓ easy commissioning and operation of the devices via the Kopp HomeConnect App
- ✓ high operational reliability and range due to direct communication of the actuators among each other within the formed network
- ✓ secure encryption with AES-128 bit procedure for a safe and protected home
- ✓ low cabling effort – suitable for renovation and new buildings
- ✓ Hybrid-Smart-Switch replaces the classic switch or dimmer and can be directly integrated into the smart home system
- ✓ energy self-powered switches and sensors can be placed freely



Blue-control uses the new worldwide established standard Bluetooth 5 mesh for the data transmission and networking of devices in the home or smart home. Via the formed network, the commands can be sent forwarded to neighboring devices to the target point.

Kopp is a member of the Bluetooth SIG (Special Interest Group).



Count on the advantages of Kopp Blue-control



Convenient updates

The devices can be easily updated "over the air" via the app to the latest version. Powered actuators don't have to be removed or be manually updated.



Modularly expandable

The network of actuators can be expanded as required. A positive side effect: the more devices that are added, the operational reliability and the range is higher.



Secure encryption

All devices work with the encryption standard AES-128 bit. Likewise, all mesh networks are password protected.



Remote Access

The Bluetooth system from Kopp doesn't have to communicate externally. It can be used locally, so the highest data security is given. If desired, the devices can also be controlled and monitored while on the move.



Simple installation

Due to the reduced cabling effort (e.g. for changeover circuits) and the freely positionable self-powered switches, installation is quick and easy. Just like the configuration and commissioning of the devices with the app.



Highest reliability and operational safety

The mesh also allows alternative signal paths to be used for transmission. Commands are forwarded to devices, creating a dedicated network with high transmission reliability and high range.



Decentralized intelligence

The intelligent switching actuators, switches and sensors, the settings are stored directly in the device. This means that the smart home absence of the cell phone is also working. The information remains stored even after a power failure. The entry in the Blue-control system can be started with just one device. No gateway or internet connection necessary!



All Blue-control and Smart-control products from Kopp are compatible and can be used in a system together with other manufacturers.



Everything in your hand: The Kopp HomeConnect App

Control lights, shutters, and other consumers conveniently from your app. Program scenes for when you get home, movie night or wake yourself up with light.

Advantages of the Kopp HomeConnect App

- ✓ password protected Bluetooth mesh network
- ✓ configuration and control of Blue-control products via app
- ✓ automatic device detection and configuration



Controlling devices is now easier than ever – with the voice assistants Alexa from Amazon and Google Home.




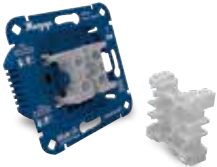

- 1 Connection and network settings
- 2 Device categories – Through this bar can be used to select a device category which should be displayed.
- 3 General settings
- 4 Group overview
- 5 Switch all displayed devices on/off (also for group switching)
- 6 Favorite actions/scenes
- 7 Add new devices/timers/groups





Overview Blue-control product range










Hybrid-Smart-Switch

 Dimmable	 Hybrid-Smart-Switch, Universal dimmer			
 Switchable	 Hybrid-Smart-Switch, 2-wire switch	 Hybrid-Smart-Switch, 3-wire switch	 Hybrid-Smart-Switch, 3-wire push button	 Hybrid-Smart-Switch, 4-wire switch
 Openable	 Hybrid-Smart-Switch, Shutter/blind switch			

More products

 Sensitive	 self-powered multifunction sensor	 self-powered motion sensor	 Door- and windowcontact	 self-powered hotel card switch
 Cloud	 Gateway			

Switch actuators and adapters

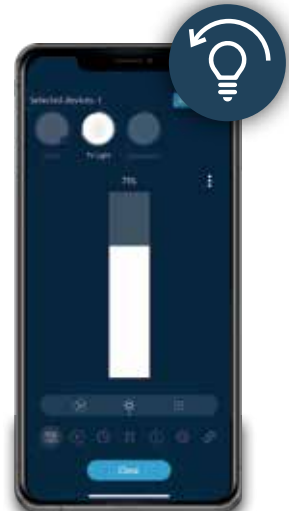
				
Universal dimming actuator	LED controller			
				
Switch actuator, 2-wire, 1-channel	Switch actuator, 3-wire, 1-channel	Switch actuator, 5-wire, 1-channel	Switch actuator, 4-wire, 2-channel	plug adapter
				
Switch actuator for Shutters/blinds				
				
self-powered wall switch module				

Functions and control options within the Kopp HomeConnect app

Free download at:



Light control



Brightness control
from 0 to 100 %



Colored light control
incl. brightness and
saturation control



Shading control
with slat positioning



Timer

The timer function allows to control the devices individually or as a group at certain times. Up to 8 timers per device are possible.



Scenes

With the favorite functions/scenes, devices can be set in an individual previously saved status, with a single click.



Rules

Rules can be used to set devices in individual previously saved states, when a certain event occurred.



Device/Network Management

You can join already existing networks or several networks can be managed.



Firmware update

The device firmware of the Blue-control products can be updated in the app.



Groups


Devices can be combined into groups and named. Settings can be made for all devices in the group at the same time.

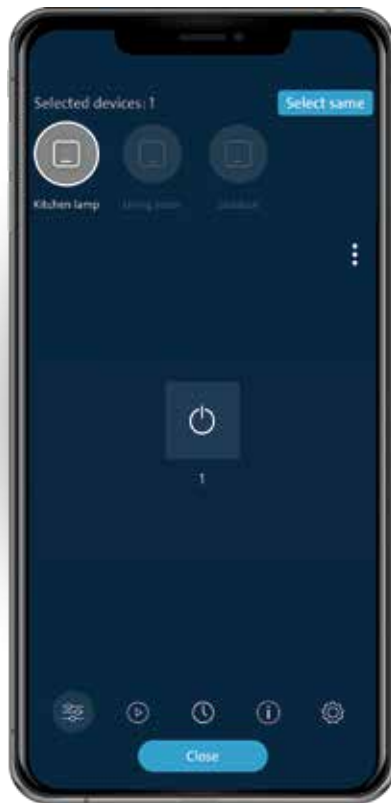


Control options light/consumer



Light control via the main screen of the app.

On/off switching via icon  on the right edge of the screen.



Control via the device menu.

Call up the device menu by selecting the device/device name.



Control of a 2-channel switch via the device menu.

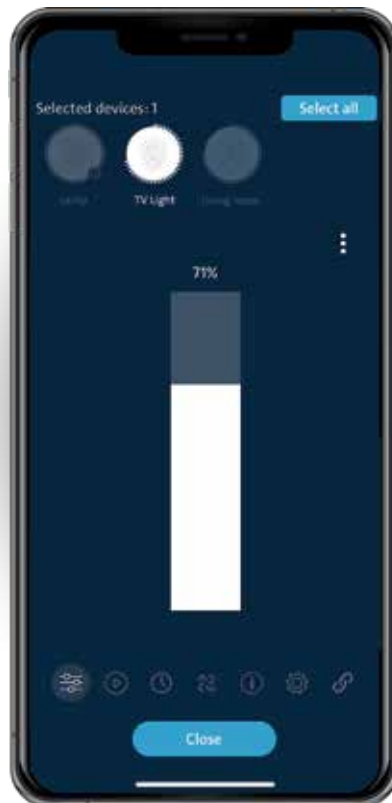


Control options dimming control



Dimming control via the main screen of the app.

Brightness control via slider.



Control via the device menu.

The brightness control can be additionally carried out in percent also via slider.


Call up the device menu by selecting the selecting the device/device name.



Control options LED controller



Light control via the main screen of the app.

On/off switching via icon  the right edge of the screen.

Brightness control via slider.



Control via the device menu.

Color selection via color wheel.

Different color wheels depending on the LED strip taught.

Call up the device menu by selecting the device/device name.





Brightness control in percent by slider via the device menu.



Preset color selection via the device menu.



Preprogrammed animations via the device menu.



Creation of user-defined animations also possible.



Control options shading



Shading control via the main screen of the app.

Raising/lowering the shutter/blinds via icons   on the right edge of the screen.



Control of shading via the device menu.

Preset positions for the shading can be selected or they can be control them in percent via slider.

Call up device menu by selecting the device/device name.





Control of the slats via the device menu.

Preset positions can be selected for slat positioning or
can be controlled in percent.



Control options sensors



View on the main screen.



View on the device menu of a motion detector.

Instructions for commissioning and configuration via the Kopp HomeConnect App



With using the QR code on the left, you can download the instructions in script and also in video form for the Blue-control System in connection with the Kopp HomeConnect app from our website.

→ www.kopp.eu/wissen-hilfe/blue-control/

FAQs about Blue-control and the Kopp HomeConnect App



If you have any further questions about Blue-control and the Kopp HomeConnect App you are welcome to access our FAQ database. There you can find the most frequently asked questions and our answers. The FAQs are constantly updated and supplemented on our website.

→ www.support.kopp.eu/faq

Planning and project support

Please do not hesitate to contact your sales representative!

Blue-control switch actuators: with Bluetooth 5 mesh radio technology

Due to the design of the switch actuators, the building control system appears almost invisible. The switch actuators can be mounted in flush-mounted or surface-mounted boxes, under suspended ceilings or in distribution boxes and control your home in an invisible way. Connected to the power supply, the switching actuators provide switching and dimming functions for lights or control functions for blinds/shutters and awnings. The actuators are available in different versions and are suitable for every area of application.

The switching actuators also offer innovative features such as automatic memory function in case of power failure and fast software updates during operation.

- ✓ also available in 2-wire technology, installation without neutral conductor
- ✓ switch actuator with 5-wire connection – with potential-free contact
- ✓ combination of conventional (wired) switching with RF possible
- ✓ Ideal also for renovation







Light control

Switch actuator: 2-wire, 1-channel

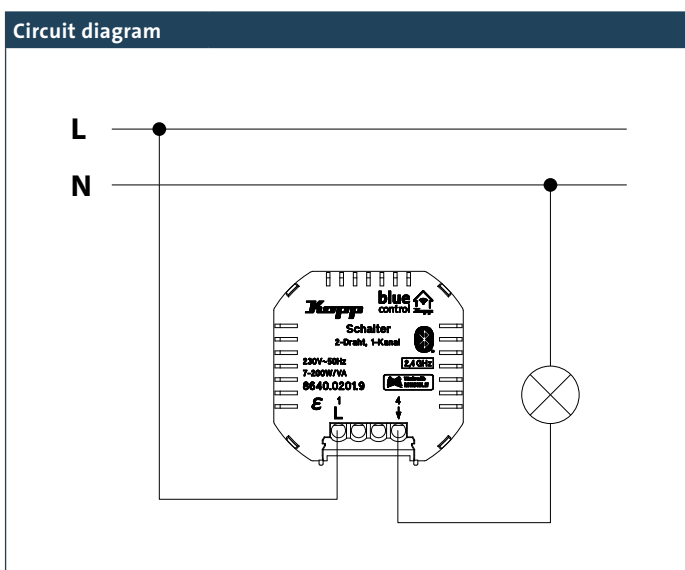
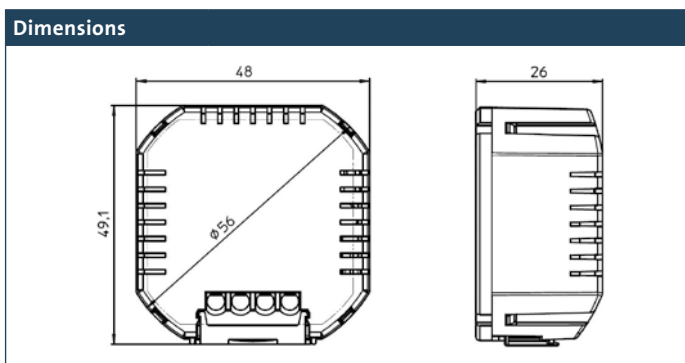


- ✓ for the connection of one connected consumer
- ✓ without N-conductor
- ✓ LED suitable
- ✓ for mounting in a device box or on the DIN rail in the distribution box
- ✓ represents an active mesh node in the network
- ✓ convenient control via Kopp HomeConnect app



Product	
Article number:	8640.0201.9
Product name:	Switch actuator, 1-channel, 2-wire with Bluetooth mesh technology
EAN code:	4008224658430
PU:	5
PG:	121

Dimensions, weight	
Mechanical dimensions (l x w x h):	49.1 x 48 x 26 mm
Weight:	30.13 g



Further connection options can be found in the operating instructions.

Technical features	
Power supply:	230 V AC \pm 10 %
Frequency:	50 Hz
Transmit frequency:	2.4 GHz
Transmitting power:	< 10 mW
Range (free field):	up to 40 m (mesh topology*)
Antenna:	Integrated
Number of station presets:	1024
Number of channels:	1
Bidirectional data transmission:	Yes
Switching contact:	Electronic (Triac)
Switchable voltages:	230 V AC
Load current:	16 A
Resistive load:	7 – 200 W/VA
Incandescent lamps:	7 – 200 W/VA
Fluorescent lamps (series-compensated):	–
Fluorescent lamps (parallel-compensated):	–
Low-voltage halogen lamps with conventional transformer:	7 – 200 W/VA
Low-voltage halogen lamps with electronic transformer:	7 – 200 W/VA
High-voltage halogen lamps:	–
Energy-saving lamps:	–
LEDs**:	7 – 100 W
Number of terminals:	2
Standby power (PV):	< 0.4 W
Terminal assignment:	L (1), connection consumer (2)
Clamping cross-section:	1.5 mm ²
Standard operating temperature:	25 °C
Operating temperature:	min -20 °C to 60 °C
Storage temperature:	min -30 °C to 80 °C
Protection class:	IP 20
Pollution degree:	2
Mounting position:	any
Mounting:	Flush-mounted box, Junction box, mounting clip
Conformity:	RED

* The mesh network extends the range per device

** Observe manufacturer's power specifications depend on the associated ballasts



As soon as the switching actuator has been connected to the power supply, the configuration can begin.
No programming buttons or dials on the device.

Start app, search for device, configure device – done!



Light control

Switch actuator: 3-wire, 1-channel



- ✓ for control of one connected consumer
- ✓ LED suitable
- ✓ for mounting in a device box or on the DIN rail in the distribution box, in the ceiling canopy
- ✓ represents an active mesh node in the network
- ✓ convenient control via Kopp HomeConnect app



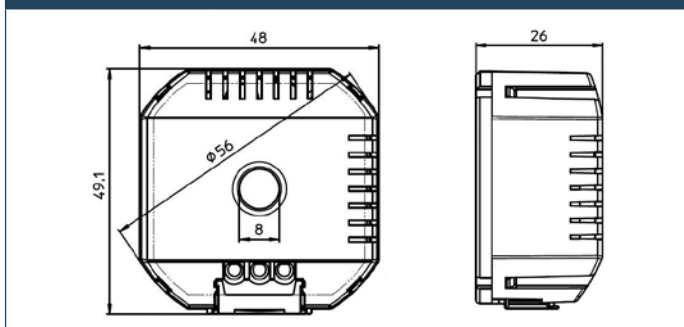
Product

Article number:	8640.0301.0
Product name:	Switch actuator, 1-channel, 3-wire with Bluetooth mesh technology
EAN code:	4008224658447
PU:	5
PG:	121

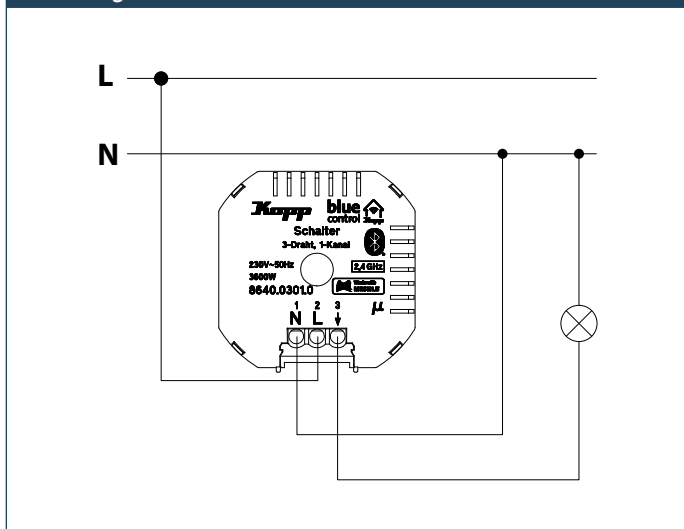
Dimensions, weight

Mechanical dimensions (l x w x h):	49.1 x 48 x 26 mm
Weight:	42.75 g

Dimensions



Circuit diagram



Technical features

Power supply:	230 V AC \pm 10 %
Frequency:	50 Hz
Transmit frequency:	2.4 GHz
Transmitting power:	< 10 mW
Range (free field):	up to 40 m (mesh topology*)
Antenna:	Integrated
Number of station presets:	1024
Number of channels:	1
Bidirectional data transmission:	Yes
Switching contact:	1 x normally open contact (relay contact, not potential-free)
Switchable voltages:	230 V AC
Load current:	16 A
Resistive load:	3,600 W
Incandescent lamps:	1,000 W
Fluorescent lamps (series-compensated):	1,500 W
Fluorescent lamps (parallel-compensated):	130 W
Low-voltage halogen lamps with conventional transformer:	1,000 W
Low-voltage halogen lamps with electronic transformer:	1,000 W
High-voltage halogen lamps:	1,000 W
Energy-saving lamps:	100 W
LEDs**:	150 W
Number of terminals:	3
Standby power (PV):	< 0.4 W
Terminal assignment:	N (1), L (2), connection consumer (3)
Clamping cross-section:	1.5 mm ²
Standard operating temperature	25 °C
Operating temperature	min -20 °C to 60 °C
Storage temperature:	min -30 °C to 80 °C
Protection class:	IP 20
Pollution degree:	2
Mounting position:	any
Mounting:	Flush-mounted box, Junction box, Ceiling canopy, mounting clip
Conformity:	RED

* The mesh network extends the range per device

** Observe manufacturer's power specifications depend on the associated ballasts



As soon as the switching actuator has been connected to the power supply, the configuration can begin.
No programming buttons or dials on the device.

Start app, search for device, configure device – done!



Light control

Switch actuator: 5-wire, 1-channel, with potential-free contact

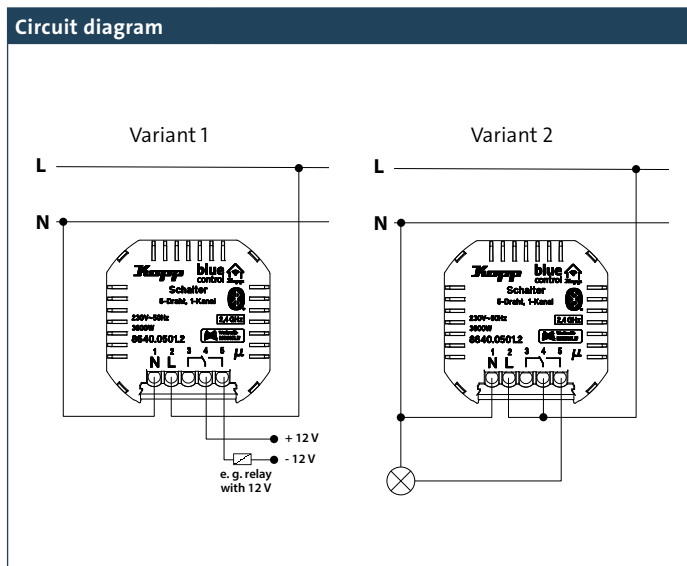
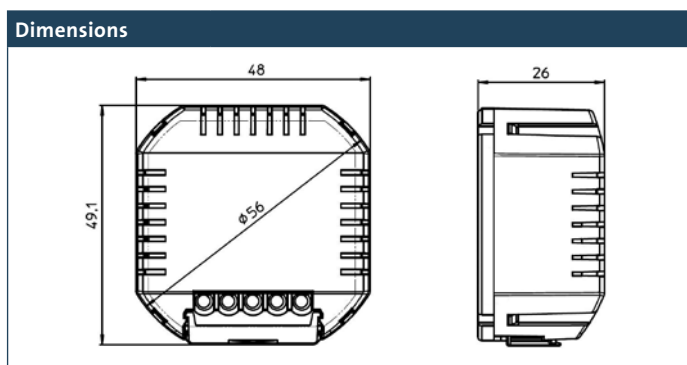


- ✓ for the control of one connected consumer
- ✓ with potential-free contact for the control of bells, detectors, garage doors etc.
- ✓ LED suitable
- ✓ for mounting in a device box or on the DIN rail in the distribution box
- ✓ represents an active mesh node in the network
- ✓ convenient control via Kopp HomeConnect app



Product	
Article number:	8640.0501.2
Product name:	Switch actuator, 1-channel, 5-wire, with potential-free changeover contact, with Bluetooth mesh technology
EAN code:	4008224658454
PU:	5
PG:	121

Dimensions, weight	
Mechanical dimensions (l x w x h):	49.1 x 48 x 26 mm
Weight:	45.15 g



Technical features	
Power supply:	230 V AC \pm 10 %
Frequency:	50 Hz
Transmit frequency:	2.4 GHz
Transmitting power:	< 10 mW
Range (free field):	up to 40 m (mesh topology*)
Antenna:	Integrated
Number of station presets:	1024
Number of channels:	1
Bidirectional data transmission:	Yes
Switching contact:	1 x changeover contact (relay contacts, potential-free)
Switchable voltages:	6 V – 230 V AC
Load current:	16 A
Resistive load:	3,600 W
Incandescent lamps:	1,000 W
Fluorescent lamps (series-compensated):	1,500 W
Fluorescent lamps (parallel-compensated):	130 W
Low-voltage halogen lamps with conventional transformer:	1,000 W
Low-voltage halogen lamps with electronic transformer:	1,000 W
High-voltage halogen lamps:	1,000 W
Energy-saving lamps:	100 W
LEDs**:	150 W
Number of terminals:	5
Standby power (PV):	< 0.4 W
Terminal assignment:	N (1), L (2), foot contact L (4), 2 x connection consumer: (1 x opener (3+4), 1 x normally open contact (4+5))
Clamping cross-section:	1.5 mm ²
Standard operating temperature	25 °C
Operating temperature	min -20 °C to 60 °C
Storage temperature:	min -30 °C to 80 °C
Protection class:	IP 20
Pollution degree:	2
Mounting position:	any
Mounting:	Flush-mounted box, Junction box, mounting clip
Conformity:	RED

* The mesh network extends the range per device

** Observe manufacturer's power specifications depend on the associated ballasts



As soon as the switching actuator has been connected to the power supply, the configuration can begin.
No programming buttons or dials on the device.

Start app, search for device, configure device – done!



Light control

Switch actuator: Series switch 4-wire, 2-channel

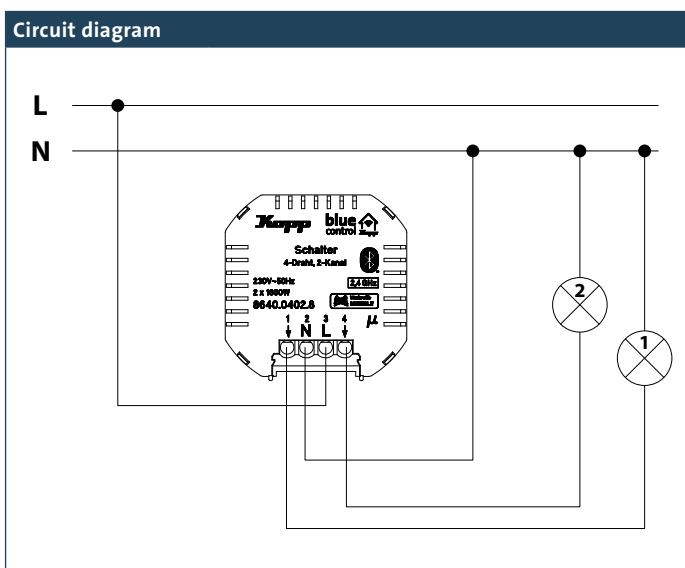
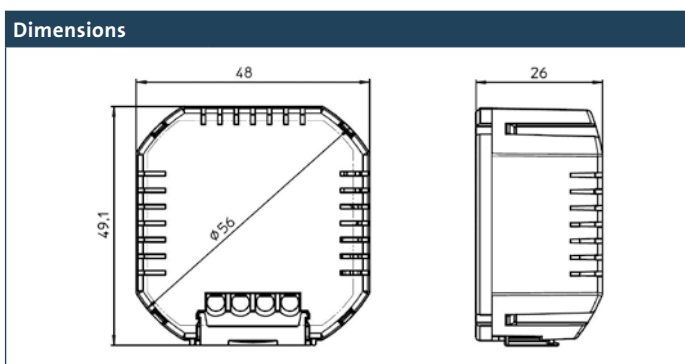


- ✓ for control of two connected consumers
- ✓ LED suitable
- ✓ for mounting in a device box or on the DIN rail in the distribution box
- ✓ represents an active mesh node in the network
- ✓ convenient control via Kopp HomeConnect app



Product	
Article number:	8640.0402.8
Product name:	Blue-control Switch actuator, 2-channel, 4-wire with Bluetooth mesh technology
EAN code:	4008224658461
PU:	5
PG:	121

Dimensions, weight	
Mechanical dimensions (l x w x h):	49.1 × 48 × 26 mm
Weight:	46.07 g



Technical features	
Power supply:	230 V AC ± 10 %
Frequency:	50 Hz
Transmit frequency:	2.4 GHz
Transmitting power:	< 10 mW
Range (free field):	up to 40 m (mesh topology*)
Antenna:	Integrated
Number of station presets:	1024
Number of channels:	2
Bidirectional data transmission:	Yes
Switchable voltages:	230 V AC
Load current:	2 × 8 A
Resistive load:	2 × 1,800 W
Incandescent lamps:	2 × 900 W
Fluorescent lamps (series-compensated):	2 × 750 W
Fluorescent lamps (parallel-compensated):	2 × 65 W
Low-voltage halogen lamps with conventional transformer:	2 × 500 W
Low-voltage halogen lamps with electronic transformer:	2 × 500 W
High-voltage halogen lamps:	2 × 500 W
Energy-saving lamps:	2 × 50 W
LEDs**:	2 × 75 W
Number of terminals:	4
Standby power (PV):	< 0.4 W
Terminal assignment:	L (3), N (2), 2 x connecting consumers (1), (4)
Clamping cross-section:	1.5 mm²
Standard operating temperature	25 °C
Operating temperature	min -20 °C to 60 °C
Storage temperature:	min -30 °C to 80 °C
Protection class:	IP 20
Pollution degree:	2
Mounting position:	any
Mounting:	Flush-mounted box, Junction box, mounting clip
Conformity:	RED

* The mesh network extends the range per device

** Observe manufacturer's power specifications depend on the associated ballasts



As soon as the switching actuator has been connected to the power supply, the configuration can begin.
No programming buttons or dials on the device.

Start app, search for device, configure device – done!



Dimming control

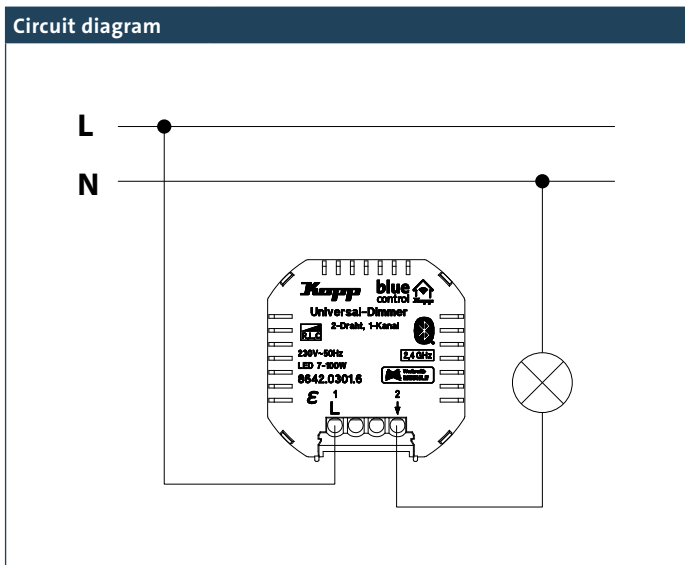
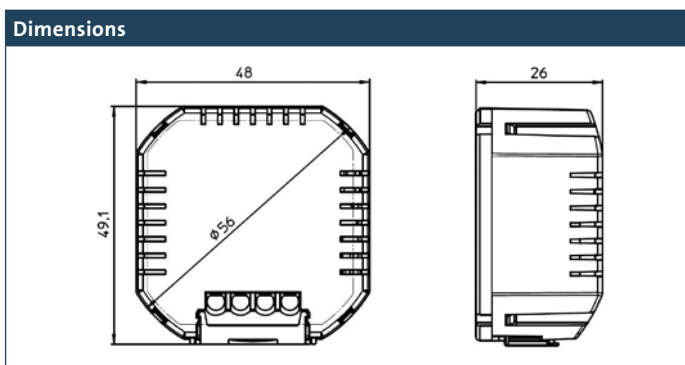
Switch actuator: Universal dimmer, 2-wire, 1-channel



- ✓ Brightness control from 0 to 100 % for one connected consumer
- ✓ LED suitable
- ✓ for mounting in a device box or on the DIN rail in the distribution box
- ✓ represents an active mesh node in the network
- ✓ convenient control via Kopp HomeConnect app

Product	
Article number:	8642.0301.6
Product name:	Blue-control Dimming actuator, 1-channel, 2-wire, with universal dimming function with Bluetooth mesh technology
EAN code:	4008224658485
PU:	5
PG:	121

Dimensions, weight	
Mechanical dimensions (l x w x h):	49.1 x 48 x 26 mm
Weight:	30.13 g



Further connection options can be found in the operating instructions.

Technical features	
Power supply:	230 V AC \pm 10 %
Frequency:	50 Hz
Transmit frequency:	2.4 GHz
Transmitting power:	< 10 mW
Range (free field):	up to 40 m (mesh topology*)
Antenna:	Integrated
Number of station presets:	1024
Number of channels:	1
Bidirectional data transmission:	Yes
Switchable voltages:	230 V AC
Load current:	16 A
Resistive load:	7 – 200 W/VA
Incandescent lamps:	7 – 200 W/VA
Fluorescent lamps (series-compensated):	–
Fluorescent lamps (parallel-compensated):	–
Low-voltage halogen lamps with conventional transformer:	7 – 200 W/VA
Low-voltage halogen lamps with electronic transformer:	7 – 200 W/VA
High-voltage halogen lamps:	–
Energy-saving lamps:	–
LEDs**:	7 – 100 W
Number of terminals:	2
Standby power (PV):	< 0.4 W
Terminal assignment:	L (1), connection consumer (2)
Clamping cross-section:	1.5 mm ²
Standard operating temperature	25 °C
Operating temperature	min -20 °C to 60 °C
Storage temperature:	min -30 °C to 80 °C
Protection class:	IP 20
Pollution degree:	2
Mounting position:	Any
Mounting:	Flush-mounted box, Junction box, mounting clip
Conformity:	RED

* The mesh network extends the range per device

** Observe manufacturer's power specifications depend on the associated ballasts



As soon as the switching actuator has been connected to the power supply, the configuration can begin.
No programming buttons or dials on the device.

Start app, search for device, configure device – done!



Shading control

Switch actuator: Roller shutter/blinds/ awning switch, 4-wire, 2-channel



- ✓ for the control of an awning, blind or a roller shutter with 230 V connection
- ✓ for mounting in a switch/distribution box or on the DIN rail in the distribution box
- ✓ represents an active mesh node in the network
- ✓ convenient control via Kopp HomeConnect app



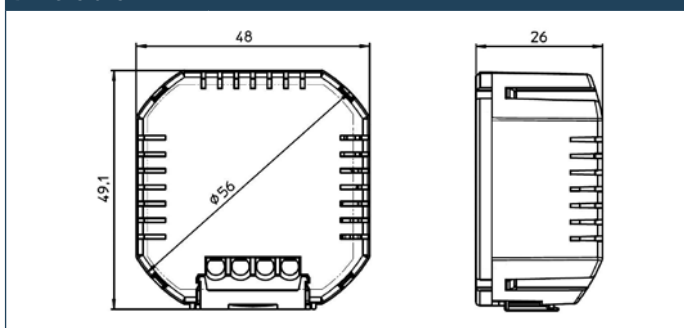
Product

Article number:	8640.0401.1
Product name:	Blue-control Switch actuator 2-channel, 4-wire, for blind/shutter/ awning control with Bluetooth mesh technology
EAN code:	4008224658478
PU:	5
PG:	121

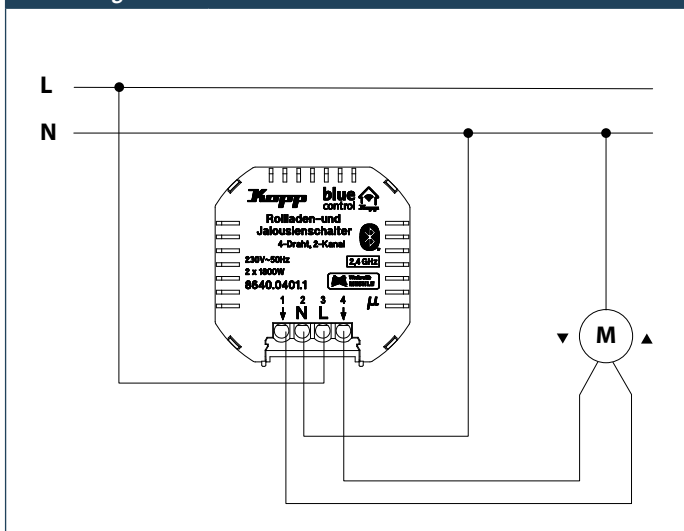
Dimensions, weight

Mechanical dimensions (l x w x h):	49.1 x 48 x 26 mm
Weight:	45.43 g

Dimensions



Circuit diagram



Technical features

Power supply:	230 V AC \pm 10 %
Frequency:	50 Hz
Transmit frequency:	2.4 GHz
Transmitting power:	< 10 mW
Range (free field):	up to 40 m (mesh topology*)
Antenna:	Integrated
Number of station presets:	1024
Number of channels:	2
Bidirectional data transmission:	Yes
Switchable voltages:	230 V AC
Load current:	2 x 8 A
Number of terminals:	4
Standby power (PV):	< 0.4 W
Terminal assignment:	L (3), N (2), 2 x connection, consumer locked, (1), (4)
Clamping cross-section:	1.5 mm ²
Standard operating temperature	25 °C
Operating temperature	min -20 °C to 60 °C
Storage temperature:	min -30 °C to 80 °C
Protection class:	IP 20
Pollution degree:	2
Mounting position:	Any
Mounting:	Flush-mounted box, Junction box, mounting clip
Conformity:	RED

* The mesh network extends the range per device



As soon as the switching actuator has been connected to the power supply,
the configuration can begin.
No programming buttons or dials on the device.

Start app, search for device, configure device – done!

Flush mounted actuators: Accessories



Mounting clip (article no. 3417.0102.4)

- ✓ for mounting Blue-control actuators on top-hat rails (DIN RAIL) in the distribution box
- ✓ VDE-compliant mounting



Flush-mounted actuators: Mounting options

When installing the Blue-control switch actuators, ensure sufficient contact safety.



Mounting in device box

All switch actuators can be installed in a flush-mounted / cavity wall box. For this purpose use at least a 45 mm deep box.



Mounting in the surface-mounted junction box

All switch actuators can also be installed in a surface-mounted junction box. Use at least one 60 x 60 mm junction box.



Mounting in the distribution box

For this we recommend to use the mounting clip for top-hat rails (DIN RAIL). (VDE compliant)



Mounting in canopy

The Blue-control 3-wire switching actuator has a circular hole in the center. This serves for the installation of the switch actuator directly on the luminaire (e.g. under the ceiling canopies).

Installation options switch actuators: Light control with N-conductor



- 1 Blue-control switching actuator 1-channel/3-wire, Art. No. 8640.0301.0 (e.g. placed in the ceiling canopy).
- 2 (Optional) self-powered Blue-control wall switch, Art. No. 8670.0101.1 (e.g. placed on kitchen back wall).
- 3 Control via the Kopp HomeConnect app.
- + Control via additional switching points by addition of self-powered Blue-control wall switch

Special features:

- ✓ Simple and flexible installation
- ✓ No wiring to the wall switch
- ✓ No battery – maintenance free
- ✓ Flexible mounting options

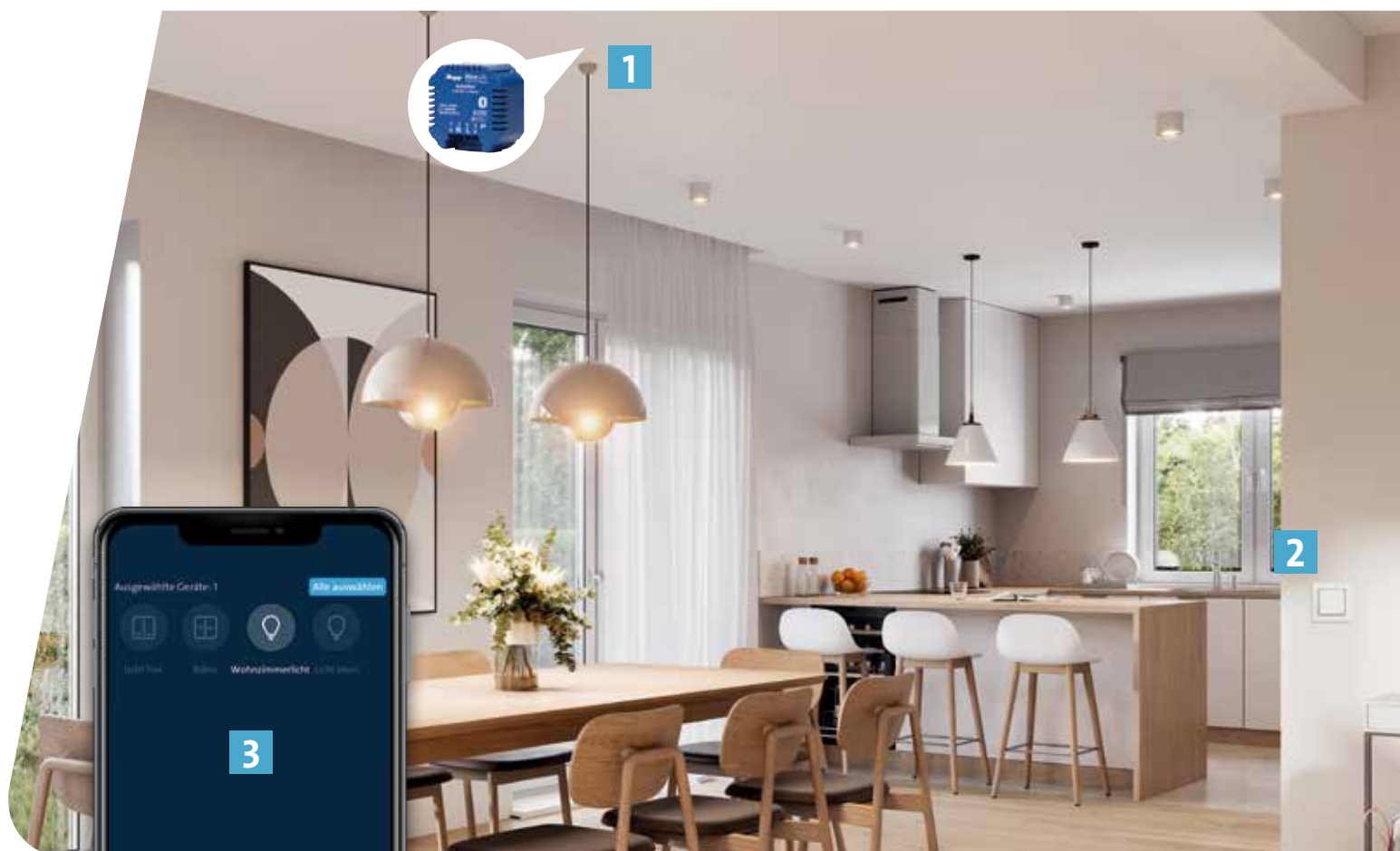
Function:

The self-powered Blue-control wall switch controls one or more switching actuators.

The switch actuator can control connected consumers based on received RF commands.

Commands are sent via end devices with the Kopp HomeConnect App or directly via a transmitter (in this example the self-powered wall switch).

Installation options switch actuators: Light control of two different consumers



- 1** Blue-control switch actuator series switch 2-channel/4-wire, Art. No. 8640.0402.8 (e.g. placed in a suspended ceiling).
- 2** (Optional) self-powered Blue-control wall switch, Art. No. 8670.0101.1 (e.g. placed on wall).
- 3** Control via the Kopp HomeConnect app.
- +** Control via additional switching points by addition of self-powered Blue-control wall switch Art. No. 8670.0101.1

Special features:

- ✓ Simple and flexible installation
- ✓ No wiring to the wall switch
- ✓ No battery – maintenance free

Function:

The self-powered Blue-control wall switch controls one or more switching actuators.

The switch actuator can control connected loads based on received RF commands

Commands are sent via end devices with the Kopp HomeConnect App or directly via a transmitter (in this example the self-powered wall switch).

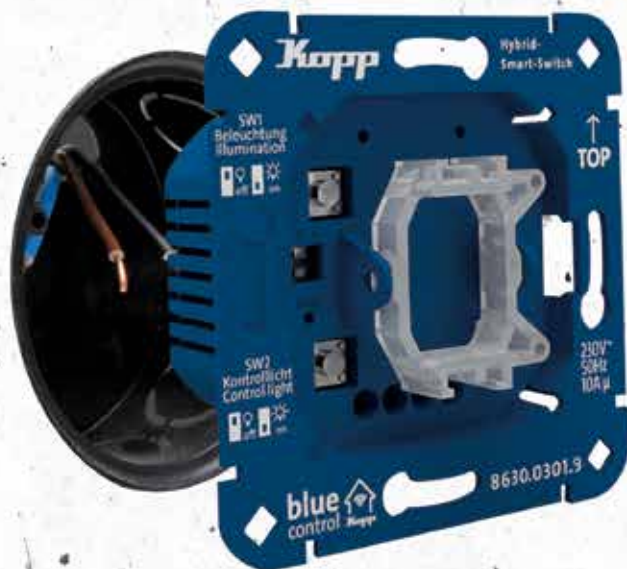
Further application/installation options can be found at www.kopp.eu

Hybrid-Smart-Switch: Electronic multifunction switch with Bluetooth 5 mesh technology

The Hybrid-Smart-Switch is particularly convincing due its innovative and universal usability. It can be easily integrated into various switch programs, with different electrical infrastructures and is therefore completely manufacturer-independent. No Internet connection is required to install the switch. The Hybrid-Smart-Switch controls connected consumers directly with the attached rocker or on the basis of received RF commands.

A total of six versions are available and are suitable for use in industrial buildings, public facilities as well as in residential buildings.

- ✓ with individually adjustable control or orientation light function
- ✓ transmitter and receiver in one device
- ✓ also available in 2-wire technology, installation without neutral conductor
- ✓ the rocker receptacle is for the switch manufacturers Kopp, Gira, Busch-Jaeger, Berker, Merten, Opus and Jung suitable.
- ✓ Ideal for renovation of existing installations



Matching rockers and frames can be found at the Kopp switch ranges.



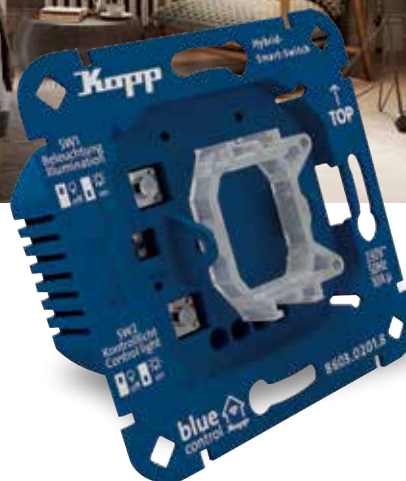


Light control

Hybrid-Smart-Switch: Switch, 2-wire, 1-channel

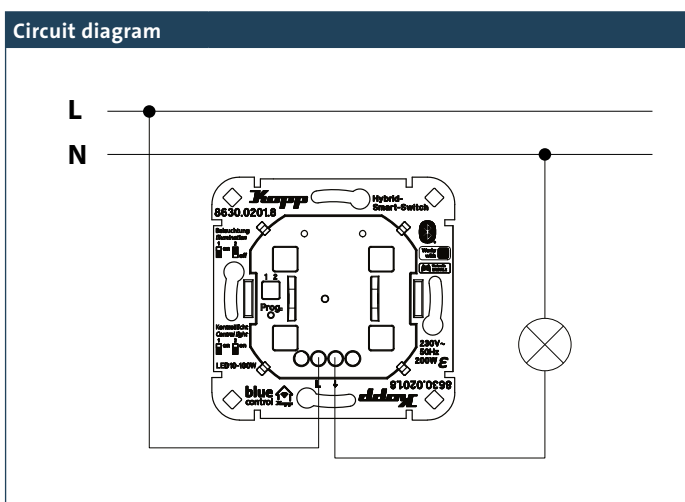
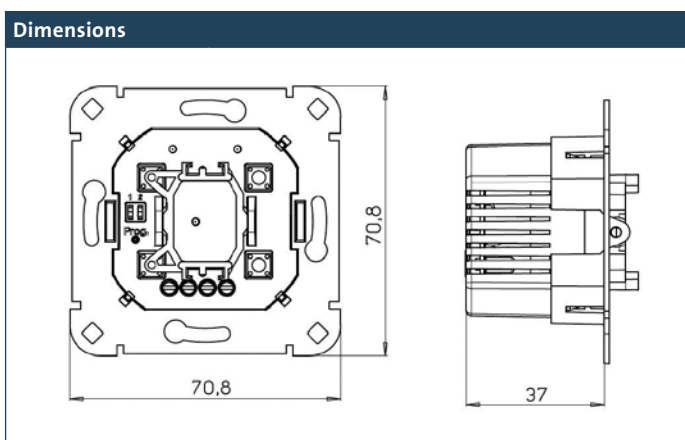


- ✓ for control of one connected consumer
- ✓ without N-conductor
- ✓ LED suitable
- ✓ transmitter and receiver in one device
- ✓ with universal rocker mount for Kopp switch programs and other different switch manufacturers
- ✓ for mounting in a device box
- ✓ represents an active mesh node in the network
- ✓ convenient control via Kopp HomeConnect app



Product	
Article number:	8630.0201.8
Product name:	Blue-control Hybrid-Smart-Switch electronic multifunction switch, 1-channel, 2-wire, with Bluetooth mesh technology
EAN code:	4008224660334
PU:	5
PG:	121

Dimensions, weight	
Mechanical dimensions (l x w x h):	70.8 x 70.8 x 37 mm
Weight:	45.08 g



Further connection options can be found in the operating instructions.

Technical features	
Power supply:	230 V AC \pm 10 %
Frequency:	50 Hz
Transmit frequency:	2.4 GHz
Transmitting power:	< 10 mW
Range (free field):	up to 40 m (mesh topology*)
Antenna:	Integrated
Number of station presets:	1024
Number of channels:	1
Bidirectional data transmission:	Yes
Switching contact:	MOSFET
Switchable voltages:	230 V AC
Load current:	10 A
Resistive load:	7 – 200 W/VA
Incandescent lamps:	7 – 200 W/VA
Fluorescent lamps (series-compensated):	–
Fluorescent lamps (parallel-compensated):	–
Low-voltage halogen lamps with conventional transformer:	7 – 200 W/VA
Low-voltage halogen lamps with electronic transformer:	7 – 200 W/VA
High-voltage halogen lamps:	–
Energy-saving lamps:	–
LEDs**:	7 – 100 W/VA
Number of terminals:	2
Standby power (PV):	< 0.4 W
Terminal assignment:	L (2), connection consumer (3)
Clamping cross-section:	max. 2.5 mm ²
Standard operating temperature	25 °C
Operating temperature	min -20 °C to 60 °C
Storage temperature:	min -30 °C to 80 °C
Protection class:	IP 20
Pollution degree:	2
Mounting:	Flush-mounted box, Surface-mounted housing
Conformity:	RED

* The mesh network extends the range per device

** Observe manufacturer's power specifications depend on the associated ballasts



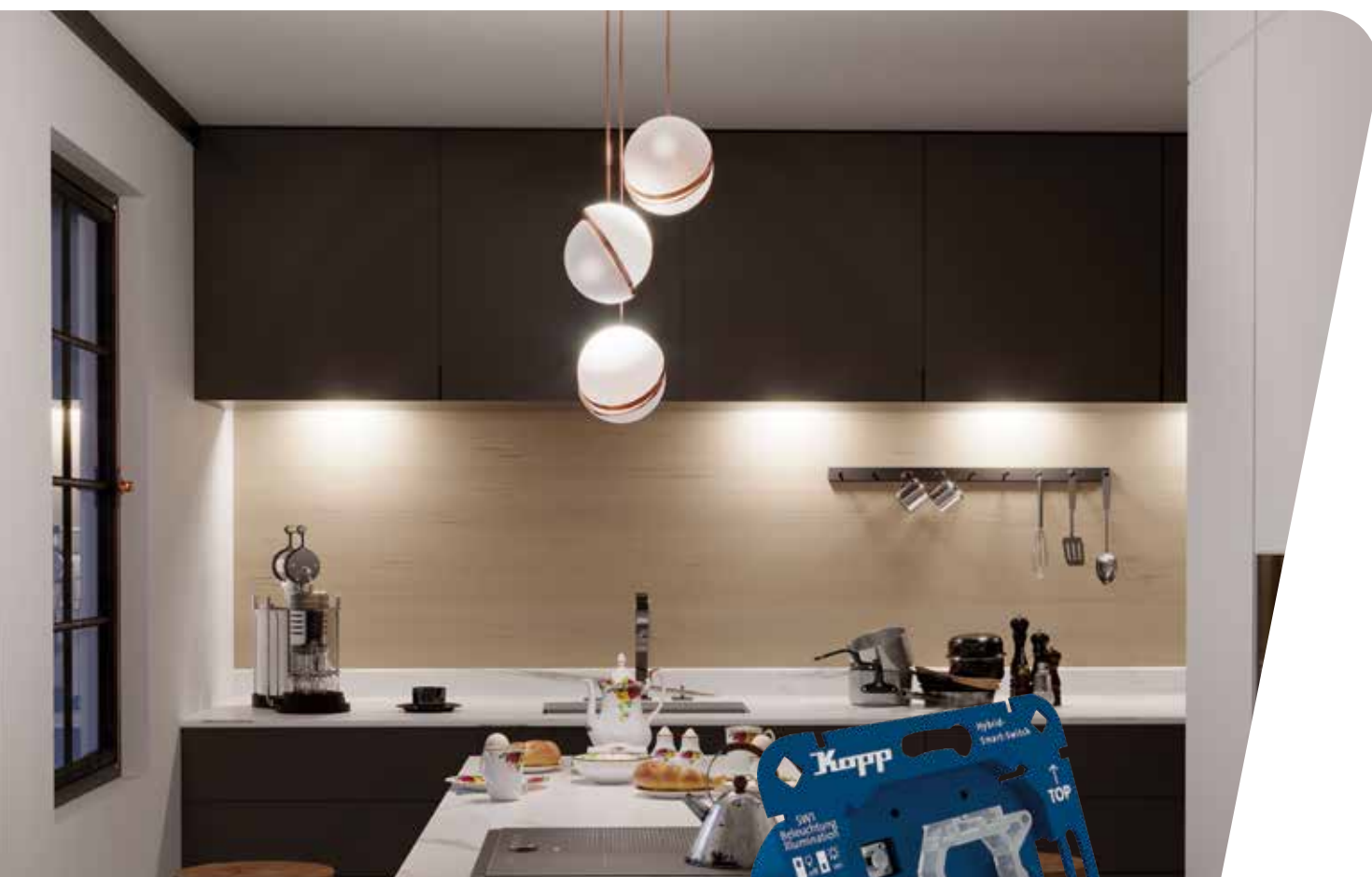
As soon as the Hybrid-Smart-Switch is connected to the power supply, the configuration can begin.
No programming buttons or dials on the device.

Start app, search for device, configure device - done!

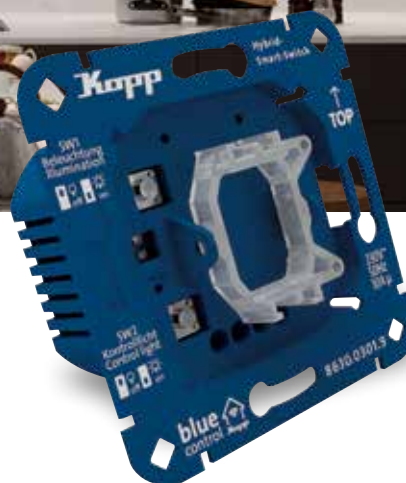


Light control

Hybrid-Smart-Switch: Switch, 3-wire, 1-channel



- ✓ for control of one connected consumer
- ✓ LED suitable
- ✓ transmitter and receiver in one device
- ✓ with universal rocker mount for Kopp switch programs and other different switch manufacturers
- ✓ for mounting in a device box
- ✓ represents an active mesh node in the network
- ✓ convenient control via Kopp HomeConnect app



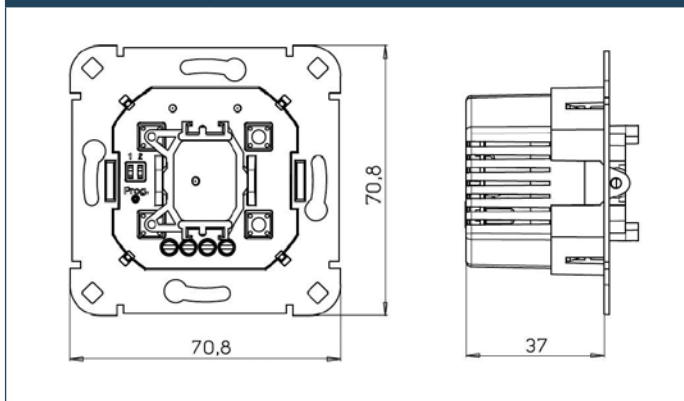
Product

Article number:	8630.0301.9
Product name:	Blue-control Hybrid-Smart-Switch electronic multifunction switch, 1-channel, 3-wire, with Bluetooth mesh technology
EAN code:	4008224660310
PU:	5
PG:	121

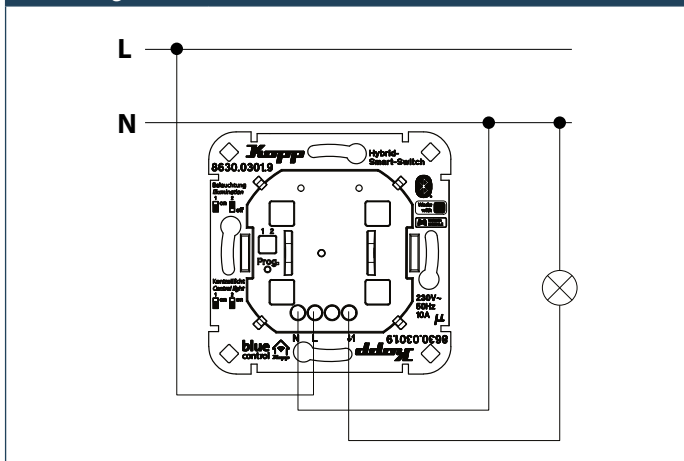
Dimensions, weight

Mechanical dimensions (l x w x h):	70.8 x 70.8 x 37 mm
Weight:	47 g

Dimensions



Circuit diagram



Technical features

Power supply:	230 V AC \pm 10 %
Frequency:	50 Hz
Transmit frequency:	2.4 GHz
Transmitting power:	< 10 mW
Range (free field):	up to 40 m (mesh topology*)
Antenna:	Integrated
Number of station presets:	1024
Number of channels:	1
Bidirectional data transmission:	Yes
Switching contact:	1 x normally open contact (relay contact, not potential-free)
Switchable voltages:	230 V AC
Load current:	10 A
Resistive load:	2,300 W
Incandescent lamps:	635 W
Fluorescent lamps (series-compensated):	955 W
Fluorescent lamps (parallel-compensated):	80 W
Low-voltage halogen lamps with conventional transformer:	635 W
Low-voltage halogen lamps with electronic transformer:	635 W
High-voltage halogen lamps:	635 W
Energy-saving lamps:	60 W
LEDs**:	90 W
Number of terminals:	3
Standby power (PV):	< 0.4 W
Terminal assignment:	N (1), L (2), connection consumer (4)
Clamping cross-section:	max. 2.5 mm ²
Standard operating temperature:	25 °C
Operating temperature:	min -20 °C to 60 °C
Storage temperature:	min -30 °C to 80 °C
Protection class:	IP 20
Pollution degree:	2
Mounting:	Flush-mounted box, Surface-mounted housing
Conformity:	RED

* The mesh network extends the range per device

** Observe manufacturer's power specifications depend on the associated ballasts



As soon as the Hybrid-Smart-Switch is connected to the power supply, the configuration can begin.
No programming buttons or dials on the device.

Start app, search for device, configure device - done!

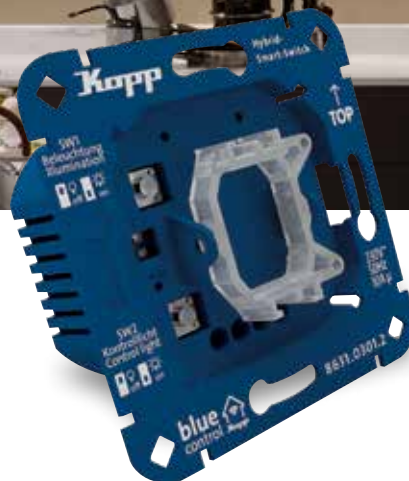


Light control

Hybrid-Smart-Switch: Push-button, 3-wire, 1-channel



- ✓ for push-button control of one connected consumer
- ✓ LED suitable
- ✓ transmitter and receiver in one device
- ✓ with universal rocker mount for Kopp switch programs and other different switch manufacturers
- ✓ for mounting in a device box
- ✓ represents an active mesh node in the network
- ✓ convenient control via Kopp HomeConnect app



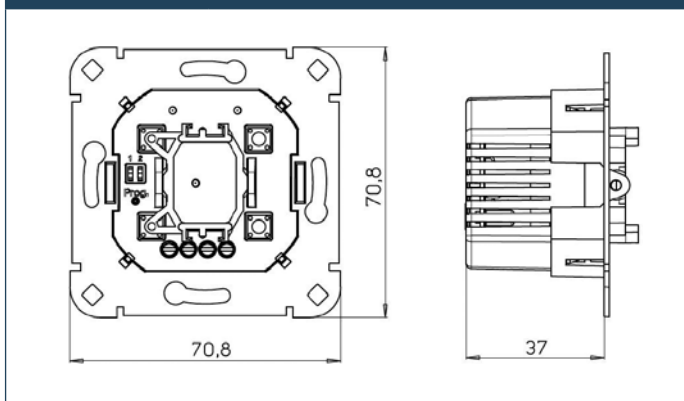
Product

Article number:	8631.0301.2
Product name:	Blue-control Hybrid-Smart-Switch electronic multifunction switch, push button, 1-channel, 3-wire, with Bluetooth mesh technology
EAN code:	4008224660327
PU:	5
PG:	121

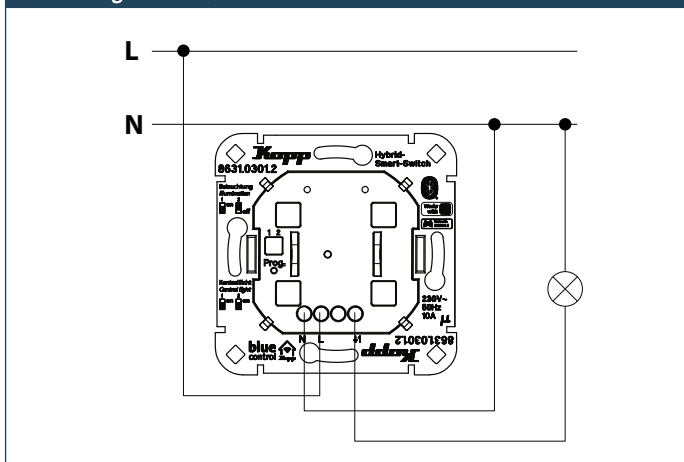
Dimensions, weight

Mechanical dimensions (l x w x h):	70.8 x 70.8 x 37 mm
Weight:	47 g

Dimensions



Circuit diagram



Technical features

Power supply:	230 V AC \pm 10 %
Frequency:	50 Hz
Transmit frequency:	2.4 GHz
Transmitting power:	< 10 mW
Range (free field):	up to 40 m (mesh topology*)
Antenna:	Integrated
Number of station presets:	1024
Number of channels:	1
Bidirectional data transmission:	Yes
Switching contact:	1 x normally open contact (relay contact, not potential-free)
Switchable voltages:	230 V AC
Load current:	10 A
Resistive load:	2,300 W
Incandescent lamps:	635 W
Fluorescent lamps (series-compensated):	955 W
Fluorescent lamps (parallel-compensated):	80 W
Low-voltage halogen lamps with conventional transformer:	635 W
Low-voltage halogen lamps with electronic transformer:	635 W
High-voltage halogen lamps:	635 W
Energy-saving lamps:	60 W
LEDs**:	90 W
Number of terminals:	3
Standby power (PV):	< 0.4 W
Terminal assignment:	N (1), L (2), connection consumer (4)
Clamping cross-section:	max. 2.5 mm ²
Standard operating temperature:	25 °C
Operating temperature:	min -20 °C to 60 °C
Storage temperature:	min -30 °C to 80 °C
Protection class:	IP 20
Pollution degree:	2
Mounting:	Flush-mounted box, Surface-mounted housing
Conformity:	RED

* The mesh network extends the range per device

** Observe manufacturer's power specifications depend on the associated ballasts



As soon as the Hybrid-Smart-Switch is connected to the power supply, the configuration can begin.

No programming buttons or dials on the device.

Start app, search for device, configure device - done!

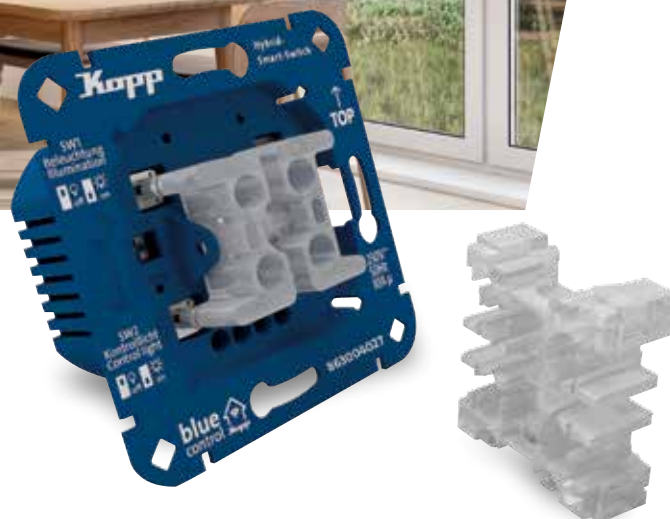


Light control

Hybrid-Smart-Switch: Series switch, 4-wire, 2-channel



- ✓ for control of two connected consumers
- ✓ LED suitable
- ✓ transmitter and receiver in one device
- ✓ with universal rocker mount for Kopp switch programs and other different switch manufacturers
- ✓ for mounting in a device box
- ✓ represents an active mesh node in the network
- ✓ convenient control via Kopp HomeConnect app



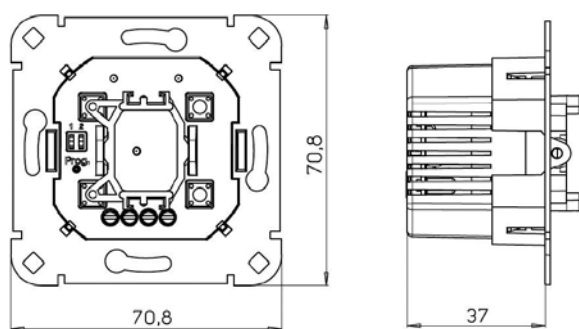
Product

Article number:	8630.0402.7
Product name:	Blue-control Hybrid-Smart-Switch electronic Series switch, 2-channel, 4-wire, with Bluetooth mesh technology
EAN code:	4008224660341
PU:	5
PG:	121

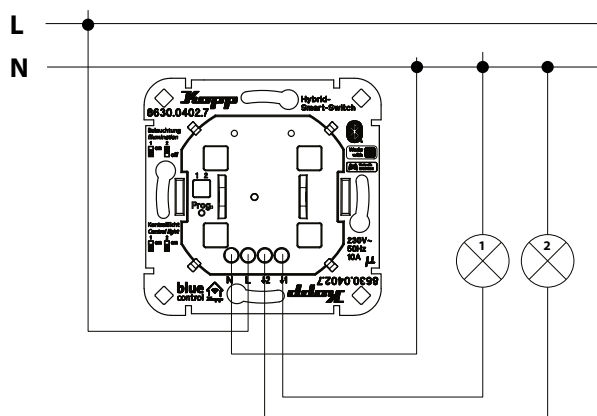
Dimensions, weight

Mechanical dimensions (l x w x h):	70.8 x 70.8 x 37 mm
Weight:	45.54 g

Dimensions



Circuit diagram



Technical features

Power supply:	230 V AC \pm 10 %
Frequency:	50 Hz
Transmit frequency:	2.4 GHz
Transmitting power:	< 10 mW
Range (free field):	up to 40 m (mesh topology*)
Antenna:	Integrated
Number of station presets:	1024
Number of channels:	2
Bidirectional data transmission:	Yes
Switchable voltages:	230 V AC
Load current:	2 x 5 A
Resistive load:	2 x 1,150 W
Incandescent lamps:	2 x 575 W
Fluorescent lamps (series-compensated):	2 x 475 W
Fluorescent lamps (parallel-compensated):	2 x 40 W
Low-voltage halogen lamps with conventional transformer:	2 x 315 W
Low-voltage halogen lamps with electronic transformer:	2 x 315 W
High-voltage halogen lamps:	2 x 315 W
Energy-saving lamps:	2 x 30 W
LEDs**:	2 x 45 W
Number of terminals:	4
Standby power (PV):	< 0.4 W
Terminal assignment:	N (1), L (2), 2 x connection consumer (locked) (3), (4)
Clamping cross-section:	max. 2.5 mm ²
Standard operating temperature:	25 °C
Operating temperature:	min -20 °C to 60 °C
Storage temperature:	min -30 °C to 80 °C
Protection class:	IP 20
Pollution degree:	2
Mounting:	Flush-mounted box, Surface-mounted housing
Conformity:	RED

* The mesh network extends the range per device

** Observe manufacturer's power specifications depend on the associated ballasts



As soon as the Hybrid-Smart-Switch is connected to the power supply, the configuration can begin.
No programming buttons or dials on the device.

Start app, search for device, configure device - done!

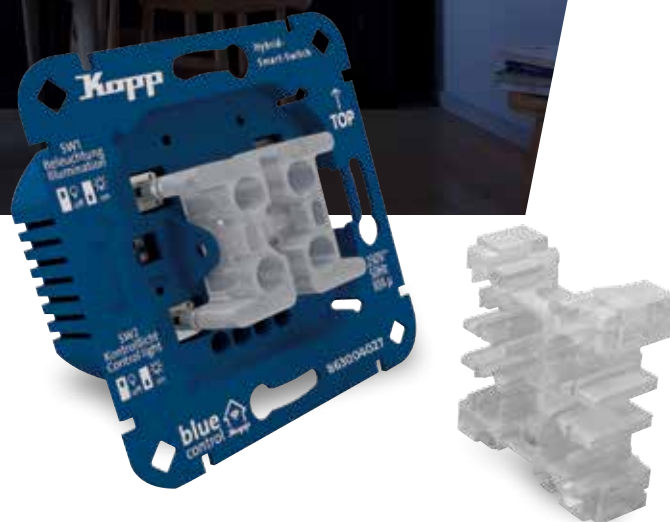


Dimming control

Hybrid-Smart-Switch: Universal dimmer, 2-wire, 1-channel



- ✓ Brightness control from 0 to 100 % for one connected consumer
- ✓ LED suitable
- ✓ transmitter and receiver in one device
- ✓ with universal rocker mount for Kopp switch programs and other different switch manufacturers
- ✓ for mounting in a device box
- ✓ represents an active mesh node in the network
- ✓ convenient control via Kopp HomeConnect app



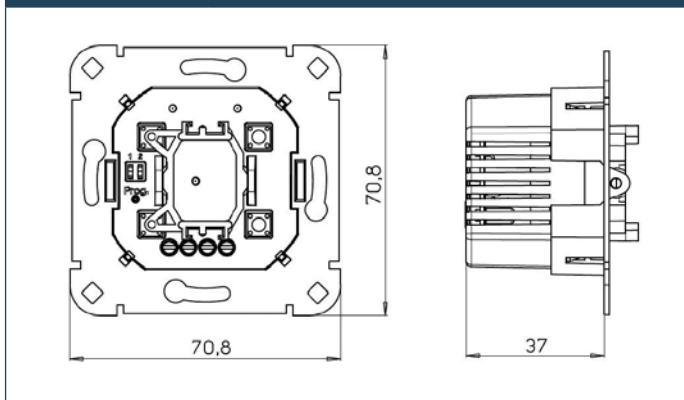
Product

Article number:	8632.0201.4
Product name:	Blue-control Hybrid-Smart-Switch electronic multifunctional dimmer with universal dimming function, 1-channel, 2-wire, with Bluetooth mesh technology
EAN code:	4008224660365
PU:	5
PG:	121

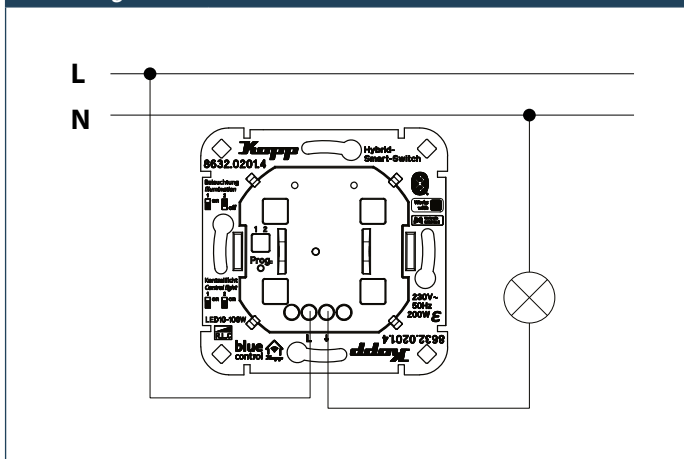
Dimensions, weight

Mechanical dimensions (l x w x h):	70.8 x 70.8 x 37 mm
Weight:	45.08 g

Dimensions



Circuit diagram



Further connection options can be found in the operating instructions.

Technical features

Power supply:	230 V AC \pm 10 %
Frequency:	50 Hz
Transmit frequency:	2.4 GHz
Transmitting power:	< 10 mW
Range (free field):	up to 40 m (mesh topology*)
Antenna:	Integrated
Number of station presets:	1024
Number of channels:	1
Bidirectional data transmission:	Yes
Switching contact:	MOSFET
Switchable voltages:	230 V AC
Load current:	10 A
Resistive load:	7 – 200 W/VA
Incandescent lamps:	7 – 200 W/VA
Fluorescent lamps (series-compensated):	–
Fluorescent lamps (parallel-compensated):	–
Low-voltage halogen lamps with conventional transformer:	7 – 200 W/VA
Low-voltage halogen lamps with electronic transformer:	7 – 200 W/VA
High-voltage halogen lamps:	–
Energy-saving lamps:	–
LEDs**:	7 – 100 W/VA
Number of terminals:	2
Standby power (PV):	< 0.4 W
Terminal assignment:	L (2), connection consumer (3)
Clamping cross-section:	max. 2.5 mm ²
Standard operating temperature:	25 °C
Operating temperature:	min -20 °C to 60 °C
Storage temperature:	min -30 °C to 80 °C
Protection class:	IP 20
Pollution degree:	2
Mounting:	Flush-mounted box, Surface-mounted housing
Conformity:	RED

* The mesh network extends the range per device

** Observe manufacturer's power specifications depend on the associated ballasts



As soon as the Hybrid-Smart-Switch is connected to the power supply, the configuration can begin.

No programming buttons or dials on the device.

Start app, search for device, configure device - done!

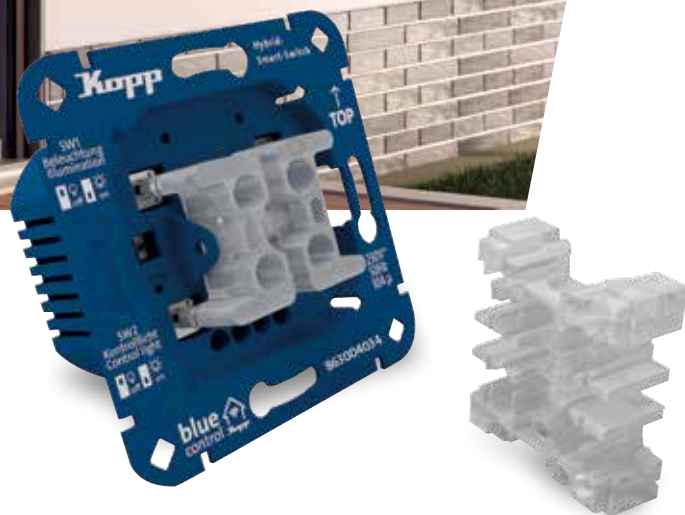


Shading control

Hybrid-Smart-Switch: Shutter/blind/awning switch, 4-wire, 2-channel



- ✓ for the control of an awning, blind or a roller shutter with 230 V connection
- ✓ transmitter and receiver in one device
- ✓ with universal rocker mount for Kopp switch programs and other different switch manufacturers
- ✓ for mounting in a device box
- ✓ represents an active mesh node in the network
- ✓ convenient control via Kopp HomeConnect app



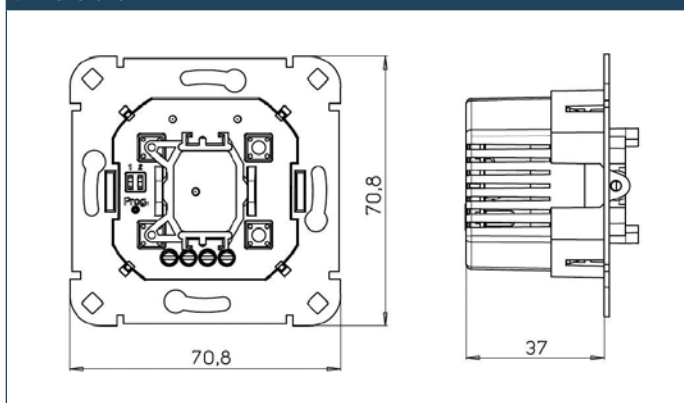
Product

Article number:	8630.0403.4
Product name:	Blue-control Hybrid-Smart-Switch electronic multifunction switch for shutter/blind and awning control, 2-channel, 4-wire, with Bluetooth mesh technology
EAN code:	4008224660358
PU:	5
PG:	121

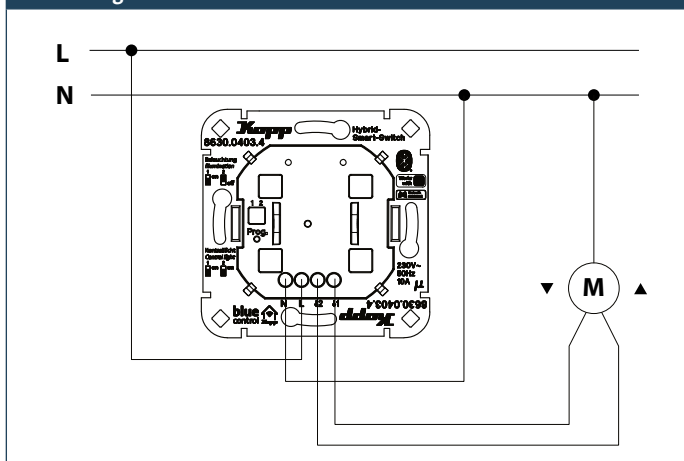
Dimensions, weight

Mechanical dimensions (l x w x h):	70.8 x 70.8 x 37 mm
Weight:	47 g

Dimensions



Circuit diagram



Technical features

Power supply:	230 V AC \pm 10 %
Frequency:	50 Hz
Transmit frequency:	2.4 GHz
Transmitting power:	< 10 mW
Range (free field):	up to 40 m (mesh topology*)
Antenna:	Integrated
Number of station presets:	1024
Number of channels:	2
Bidirectional data transmission:	Yes
Switchable voltages:	230 V AC
Load current:	2 x 5 A
Resistive load:	2 x 1,150 W
Incandescent lamps:	2 x 575 W
Fluorescent lamps (series-compensated):	2 x 475 W
Fluorescent lamps (parallel-compensated):	2 x 40 W
Low-voltage halogen lamps with conventional transformer:	2 x 315 W
Low-voltage halogen lamps with electronic transformer:	2 x 315 W
High-voltage halogen lamps:	2 x 315 W
Energy-saving lamps:	2 x 30 W
LEDs**:	2 x 45 W
Number of terminals:	4
Standby power (PV):	< 0.4 W
Terminal assignment:	N (1), L (2), 2 x connection consumer (locked) (3), (4)
Clamping cross-section:	max. 2.5 mm ²
Standard operating temperature:	25 °C
Operating temperature:	min -20 °C to 60 °C
Storage temperature:	min -30 °C to 80 °C
Protection class:	IP 20
Pollution degree:	2
Mounting:	Flush-mounted box, Surface-mounted housing
Conformity:	RED

* The mesh network extends the range per device

** Observe manufacturer's power specifications depend on the associated ballasts



As soon as the Hybrid-Smart-Switch is connected to the power supply, the configuration can begin.
No programming buttons or dials on the device.

Start app, search for device, configure device - done!

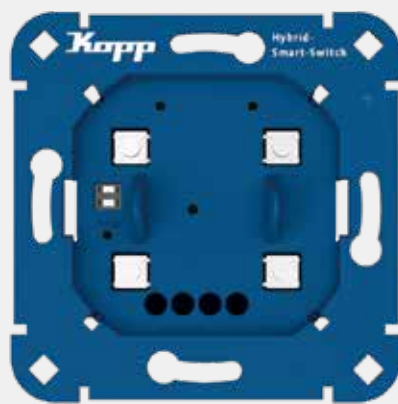
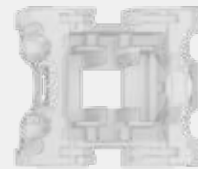
Simple rocker change for different switch manufacturers

With the Hybrid-Smart-Switch, design wishes can be individually selected.

Rocker mounting
for the Kopp switch
programs



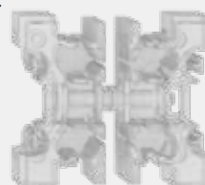
Rocker mounting for the switch
programs of the manufacturers
Gira, Busch-Yeseger, Berker,
Merten, Opus and Jung*



Series rocker mounting for the
Kopp switch programs



Series rocker mounting for the switch
programs of the manufacturers
Gira, Busch-Jaeger, Berker, Merten,
Opus and Jung*



* Please note the compatibility list on www.kopp.eu

With the exchangeable rocker mount, the rockers of the most different switch manufacturers can be mounted.

Change the rocker mount by carefully levering the bars of the Hybrid-Smart-Switch, which hold the rocker mount in place, are carefully to the side.

Each Hybrid-Smart-Switch comes with one Kopp rocker mount and one universal rocker mount.

Hybrid-Smart-Switch: Mounting options

When installing the Blue-control Hybrid-Smart-Switch, ensure sufficient contact safety.

Mounting in device box

All Hybrid-Smart-Switch variants can be installed in a flush-mounted/wall mounting box. For this purpose, use at least a 60 mm deep box.

The device screws can be used to fix the ring to the switch box.



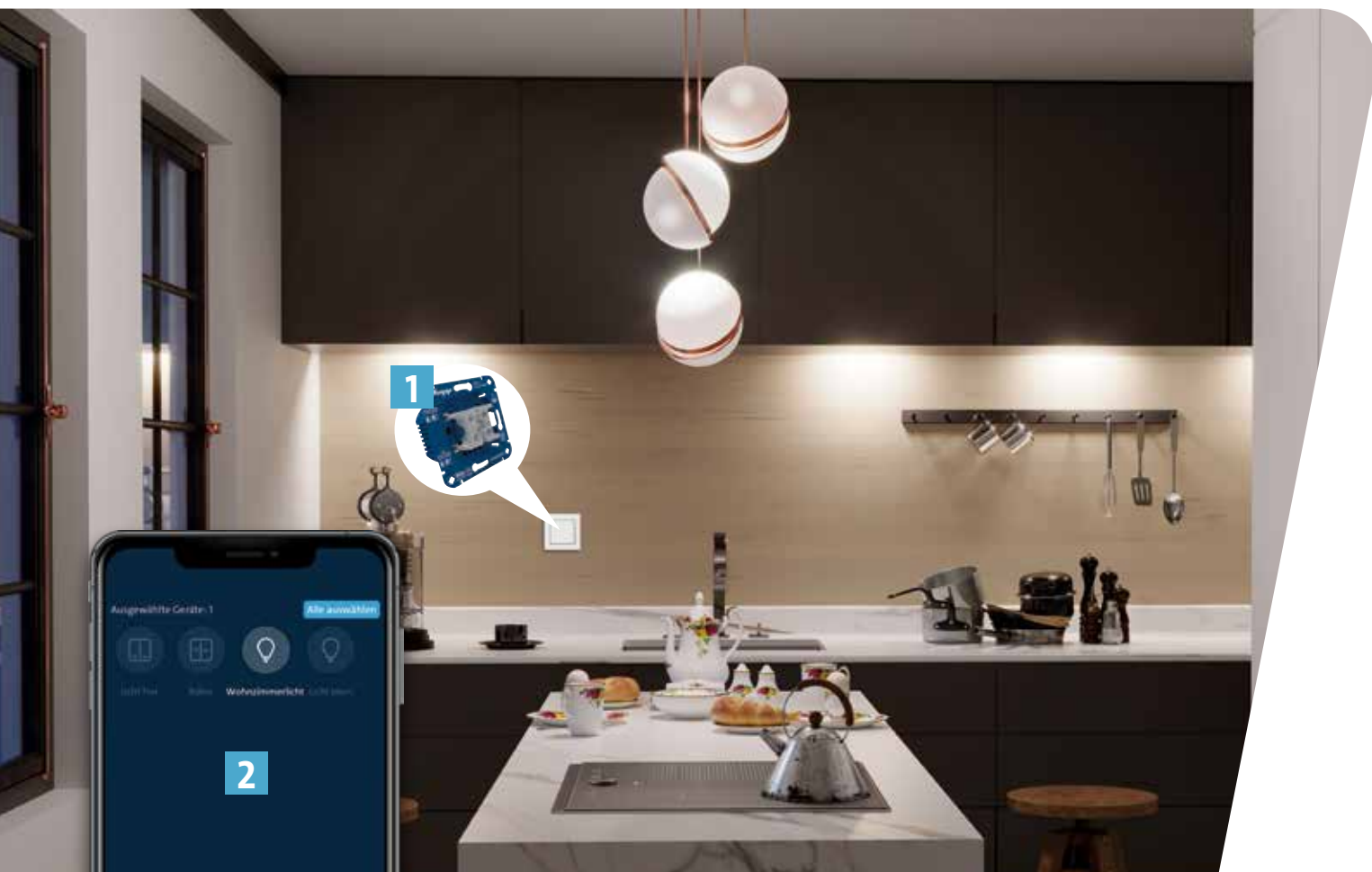
Mounting in the surface-mounted housing

Each Hybrid-Smart-Switch can also be mounted in a surface mount housing of the Kopp switch ranges.

With device screws the ring can be fixed to the surface-mounted housing.



Installation options Hybrid-Smart-Switch: Light control with N-conductor



- 1** Blue-control Hybrid-Smart-Switch 1-channel/3-wire, Art. No. 8630.0301.9 (e.g. placed in a switch box).
- 2** Control via the Kopp HomeConnect app.
- +** Control via additional switch points by addition of self-powered Blue-control wall switch, Art. No. 8670.0101.1

Special features:

- ✓ Simple and flexible installation
- ✓ Further use of existing wires

Function:

The Blue-control Hybrid-Smart-Switch controls connected consumers directly with the locally rocker or can act on the basis of received RF commands.

Commands are sent via end devices with the app, via a transmitter or directly via the local rocker switch.

The self-powered wall switch can form an additional switching point.

Installation options Hybrid-Smart-Switch: Lighting control of two different consumers



- 1** Blue-control Hybrid-Smart-Switch Series Switch 2-channel/4-wire, Art. No. 8630.0402.7 (e.g. placed in a switch box)
- 2** Control via the Kopp HomeConnect app.
- +** Control via additional switch points by addition of self-powered Blue-control wall switch Art. No. 8670.0101.1

Special features:

- ✓ Simple and flexible installation
- ✓ Further use of existing wires

Function:

The Blue-control Hybrid-Smart-Switch controls the both connected consumers with the locally rocker directly or can act on the basis of RF commands.

Commands are sent via end devices with the app, via a transmitter or directly via the local rocker switch.

The self-powered wall switch can form an additional switching point.

Further application/installation options can be found at unter www.kopp.eu



Colored light control LED controller, 4-channel



- ✓ for the control of different LED strip lights (RGBW, RGB, CCT, single color LED strip lights)
- ✓ comfortable and individual control (on/off, brightness, cold/warm, color, saturation)
- ✓ power supply by 12 V or 24 V
- ✓ represents an active mesh node in the network
- ✓ convenient control via Kopp HomeConnect App

Product

Article number:	8650.0101.9
Product name:	Blue-control LED strip control, RGBW, RGB, W/R/G/B (Single), 4 channels, with Bluetooth mesh technology
EAN code:	4008224665919
PU:	1
PG:	121

Dimensions, weight

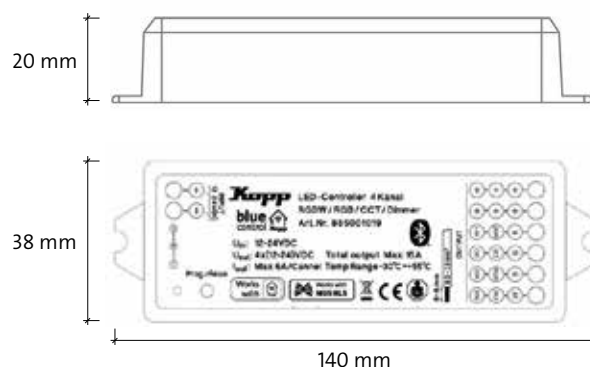
Mechanical dimensions (l x w x h):	140 x 38 x 20 mm
Weight:	85 g

Technical features

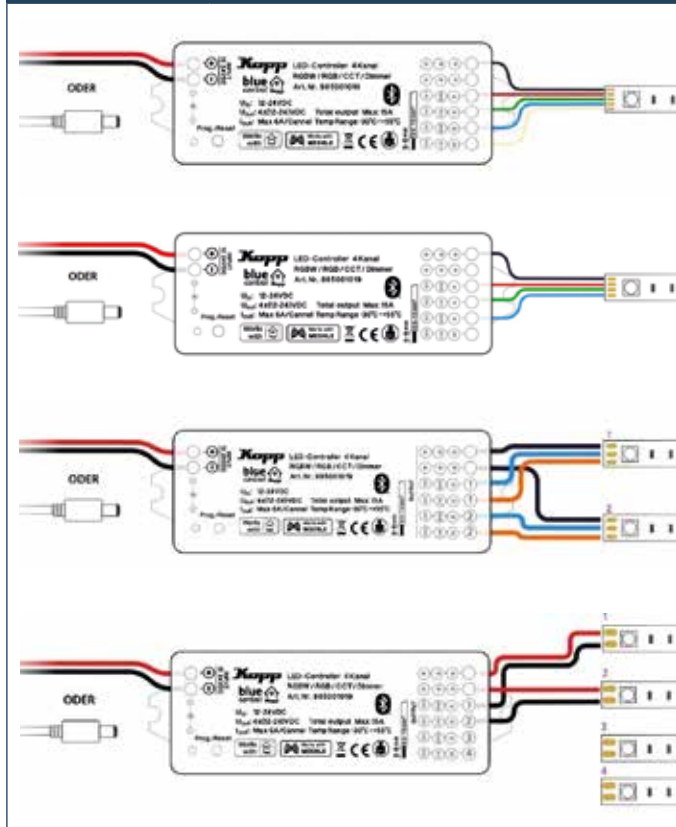
Power supply:	12–24 V, 6 A each channel (max. 15 A)
Frequency:	50 Hz
Transmit frequency:	2.4 GHz
Range (in housing):	Up to 40 m (mesh topology*)
Antenna:	Integrated
Number of station presets:	1024
Number of channels:	4
Bidirectional data transmission:	Yes
Switching contact:	12–24 V DC
Load current:	6 A each channel (max. 15 A)
Power:	max. 360 W
Suitable illuminant:	Analogue LED RGB/ RGBW/ CCT/ Single Colour LED strip lights
Standby power (PV):	< 0.4 W
Connections:	Screw terminals, Socket for DC connector 5.5/2.1mm
Clamping cross-section:	0,5–1.5 mm ²
Standard operating temperature:	25 °C
Operating temperature:	-30 °C to +55 °C
Storage temperature:	-30 °C to +55 °C
Humidity / non-condensing:	80 %
Protection class:	IP 23, unsuitable for outside
Pollution degree:	2
Mounting position:	Any
Conformity:	RED

* The mesh network extends the range per device.

Dimensions



Circuit diagram



Note: The desired programming mode must be set before commissioning via the app, with using the Prog. button on the device. More detailed programming instructions can be found in the operating instructions.



As soon as the LED controller has been connected to the power supply, the configuration can begin.

Start app, search for device, configure device – done!



Device control

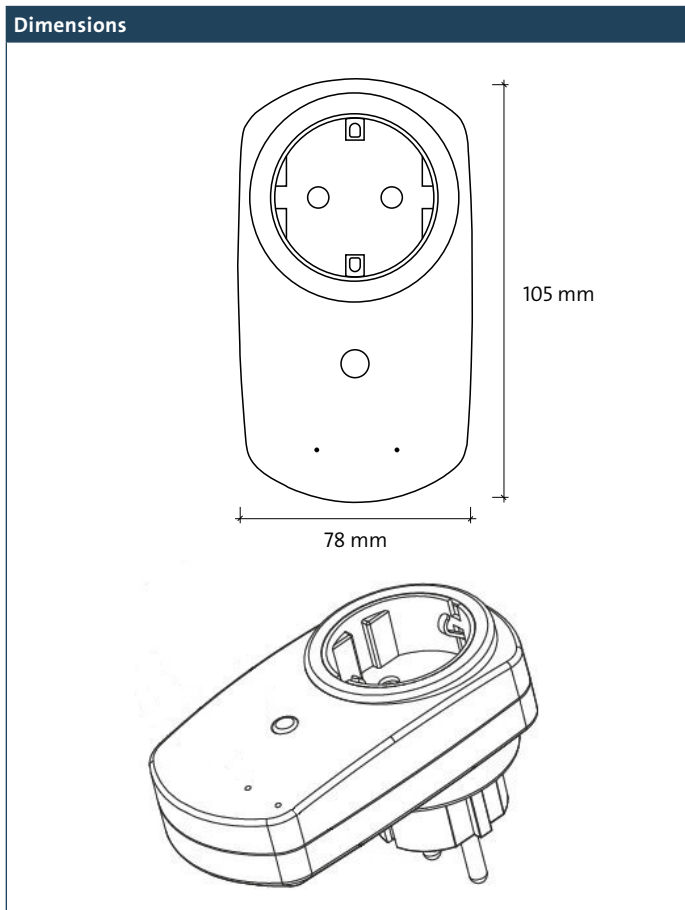
Plug adapter



- ✓ protective contact socket with increased protection against accidental contact
- ✓ switchable power max. 3,600 W
- ✓ for control of one plugged-in consumer
- ✓ LED suitable
- ✓ represents an active mesh node in the network
- ✓ convenient control via Kopp HomeConnect app

Product	
Article number:	8644.0201.1
Product name:	Blue-control adapter plug/ Adapter with safety socket and increased protection against accidental contact; ON/OFF function; manual operation possible
EAN code:	4008224658492
PU:	5
PG:	121

Dimensions, weight	
Mechanical dimensions (l x w x h):	105 x 78 x 82 mm
Weight:	136 g



Technical features	
Power supply:	230 V AC \pm 10 %
Frequency:	50 Hz
Transmit frequency:	2.4 GHz
Transmitting power:	< 10 mW
Range (free field):	up to 40 m (mesh topology*)
Antenna:	Integrated
Number of station presets:	1024
Number of channels:	1
Bidirectional data transmission:	Yes
Switching contact:	1 x normally open contact (relay contact, not potential-free)
Switchable voltages:	230 V AC
Load current:	16 A
Resistive load:	3,600 W
Incandescent lamps:	1,000 W
Fluorescent lamps (series-compensated):	1,500 W
Fluorescent lamps (parallel-compensated):	130 W
Low-voltage halogen lamps with conventional transformer:	1,000 W
Low-voltage halogen lamps with electronic transformer:	1,000 W
High-voltage halogen lamps:	1,000 W
Energy-saving lamps:	100 W
LEDs**:	150 W
Standby power (PV):	< 0,5 W
Standard operating temperature:	25 °C
Operating temperature:	min -20 °C to 60 °C
Storage temperature:	min -30 °C to 80 °C
Protection class:	IP 20
Pollution degree:	2
Mounting:	plug into socket
Conformity:	RED

* The mesh network extends the range per device

** Observe manufacturer's power specifications depend on the associated ballasts



As soon as the adapter has been connected to the power supply,
the configuration can begin.

Start app, search for device, configure device – done!



Activation of a charging station

Switch actuator, 1-channel, 5-wire, in surface box (IP54)

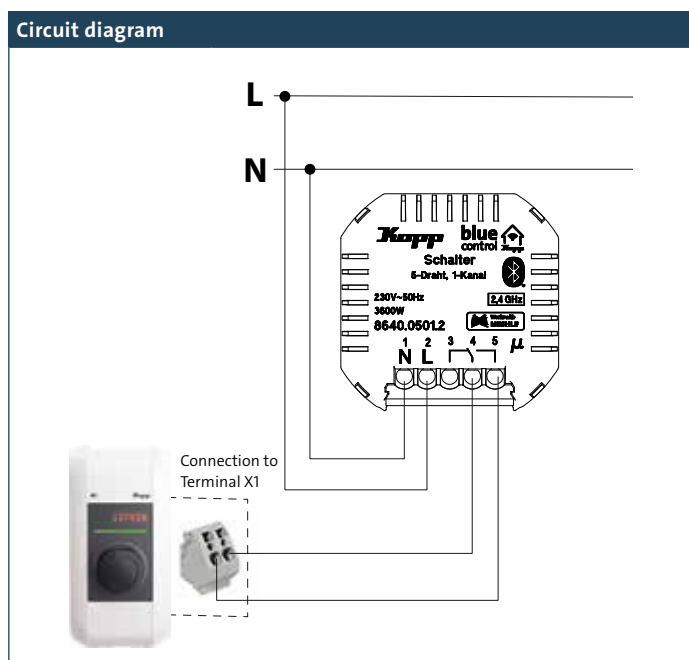


- ✓ with potential free contact, to activate the of the Kopp charging stations via the Kopp HomeConnect app
- ✓ Switch actuator integrated in surface mount housing for waterproof mounting
- ✓ represents an active mesh node in the network



Product	
Article number:	8641.0501.5
Product name:	Blue-control switch actuator, 1-channel, 5-wire, in surface box (IP54), serves as switch box for the Kopp E-charging stations, with Bluetooth mesh-technology
EAN code:	4008224665926
PU:	3
PG:	121

Dimensions, Weight	
Mechanical dimensions (l x w x h):	110 x 110 x 67 mm
Weight:	ca. 180 g



See E-charging station installation manual, 7 - Connections and wiring, section "Enable input X1". This Blue-control solution, for enabling charging of an e-car via an e-charging station, can be used with all e-charging stations, that have a potential-free switching input to enable charging by external components. Activation takes place via the Kopp Home Connect app.

Technical features	
Power supply:	230 V AC \pm 10 %
Frequency:	50 Hz
Transmit frequency:	2.4 GHz
Transmitting power:	< 10 mW
Range (free field):	up to 40 m (mesh topology*)
Antenna:	Integrated
Number of station presets:	1024
Number of channels:	1
Bidirectional data transmission:	Yes
Switching contact:	1 x changeover contact (relay contacts, potential-free)
Switchable voltages:	6 V – 230 V AC/DC
Load current:	16 A
Resistive load:	3,600 W
Incandescent lamps:	1,000 W
Fluorescent lamps (series-compensated):	1,500 W
Fluorescent lamps (parallel-compensated):	130 W
Low-voltage halogen lamps with conventional transformer:	1,000 W
Low-voltage halogen lamps with electronic transformer:	1,000 W
High-voltage halogen lamps:	1,000 W
Energy-saving lamps:	100 W
LEDs**:	150 W
Number of terminals:	5
Standby power (PV):	< 0.4 W
Terminal assignment:	N (1), L (2), foot contact L (4), 2 x connection Consumer: (1 x normally closed contact (3+4), 1 x normally open contact (4+5)) To control the Kopp charging station terminal 4+5 (normally open contact) must be connected to terminal X1 of the charging station (see operating instructions of the respective charging station).
Clamping cross-section:	1.5 mm ²
Standard operating temperature:	25 °C
Operating temperature:	min -20 °C to 60 °C
Storage temperature:	min -30 °C to 80 °C
Protection class:	IP54 (through AP can)
Pollution degree:	2
Mounting position:	Any
Mounting:	Surface-mounted
Conformity:	RED

* The mesh network extends the range per device

** Observe manufacturer's power specifications depend on the associated ballasts



As soon as the switching actuator has been connected to the power supply, the configuration can begin.

Start app, search for device, configure device – done!

Self-powered sensors and switches

The self powerd switches and sensors are the ideal complement to make buildings digital, sustainable and future-proof. The products operate completely self-powered and therefore require neither battery or cable/wire. With this resource-saving technology homes, buildings and facilities can be made even more efficient. Examples are: automatic temperature reduction; switching off lights and appliances when not in use, etc.

The battery-free sensors and switches harvest, collect and store minute amounts of energy from motion, light and temperature differences, which they then use to send signals to other Blue-control devices and/or the Kopp HomeConnect.

- ✓ freely placeable, no wires or cables are needed
- ✓ battery-free – no external power supply required
- ✓ no installation depth, can be glued or screwed flat to the surface
- ✓ maintenance-free
- ✓ sensor system with backup battery for power failure of the solar cell
- ✓ ideal for renovation and expansion



Battery-free with EnOcean

Battery-free by EnOcean – no external power supply necessary. The transmitters with Bluetooth technology from EnOcean generate the energy required kinetically – without battery or cable.





Sensors

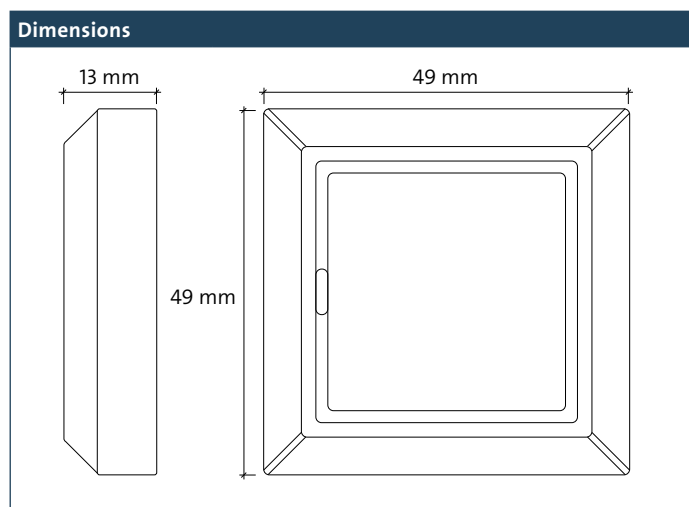
Self-powered Bluetooth multifunction sensor

- ✓ for measuring temperature, humidity, brightness and acceleration/orientation
- ✓ with door and window contact
- ✓ integrated solar cell



Product	
Article number:	8671.0201.5
Product name:	Blue-control self-powered Bluetooth-multifunctional sensor, for measuring temperature, humidity, brightness or acceleration/orientation, with door and window contact
EAN code:	4008224669757
PU:	5
PG:	121

Dimensions, weight	
Mechanical dimensions (l x w x h):	49 x 49 x 13 mm
Weight:	22 g



Technical features	
Power supply:	Integrated solar cell
Backup battery:	CR1632
Operation without sunlight:	4 days
Transmit frequency:	2.4 GHz
Range (in housing):	ca. 10 m
Range (free field):	ca. 30 m
Antenna:	Integrated
Contact:	Integrated magnetic contact
Transmission interval:	Every 60 seconds
Temperature measurement range:	-20 °C to +60 °C / ± 0.3 K
Humidity measuring range:	0 to 100 % r.F. / ± 3 % r.F.
Illumination measurement range:	0 to 65000 Lux / ± 10 %
Acceleration measurement range:	± 2 g / ± 0.03 g
Acceleration warning threshold:	0.03 g (Standard, configurable via NFC)
Standard operating temperature:	25 °C
Operating temperature:	-5 °C to +45 °C
Storage temperature:	-5 °C to +45 °C
Humidity / non-condensing:	0–95 % (without condensation)
Assembly:	Attachment with supplied adhesive pad on flat, smooth surfaces
Mounting position:	Any
Protection class:	IP 20
Conformity:	RED

As soon as the self-powered sensor/switch has been put into operation, it can be by scanning the QR code on the back of the sensor/switch integrated to the app.



Sensors

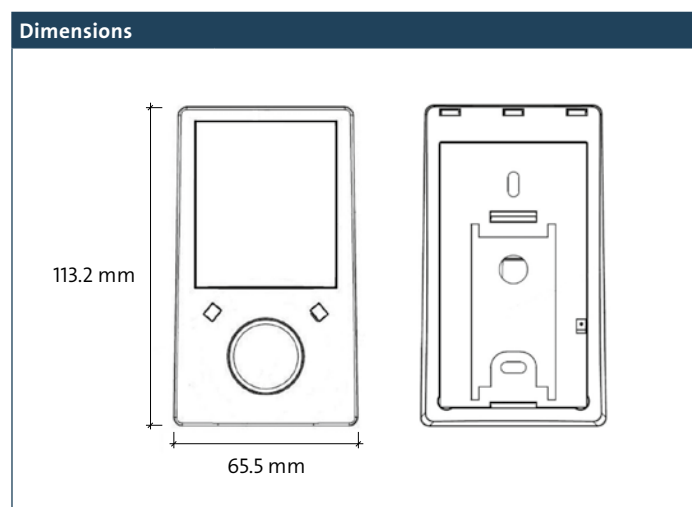
Self-powered Bluetooth motion detector

- ✓ for motion and brightness detection
- ✓ with passive infrared sensor
- ✓ integrated solar cell



Product	
Article number:	8672.0201.8
Product name:	Blue-control self-powered Bluetooth motion detector, with passive infrared sensor for motion and light and brightness detection
EAN code:	4008229323128
PU:	5
PG:	121

Dimensions, weight	
Mechanical dimensions (l x w x h):	113.2 x 65.5 x 30.7 mm
Weight:	83 g



Technical features	
Power supply:	Integrated solar cell
Backup battery:	CR2032
Operation without sunlight:	4 days
Transmit frequency:	2.4 GHz
Range (in housing):	ca. 10 m
Range (free field):	ca. 30 m
Antenna:	Integrated
Motion detection radius:	5 m when installed at a height of 2.5 m
Light level sensor:	0 to 65000 Lux / $\pm 5\%$
Standard operating temperature:	25 °C
Operating temperature:	0 °C to +60 °C (for indoor use only)
Storage temperature:	0 °C to +60 °C (for indoor use only)
Assembly:	Ceiling mounting at a height of 2.5 to 3 m mounting with supplied screws
Mounting position:	Any
Protection class:	IP 20
Conformity:	RED

As soon as the self-powered sensor/switch has been put into operation, it can be by scanning the QR code on the back of the sensor/switch integrated to the app.



Sensors

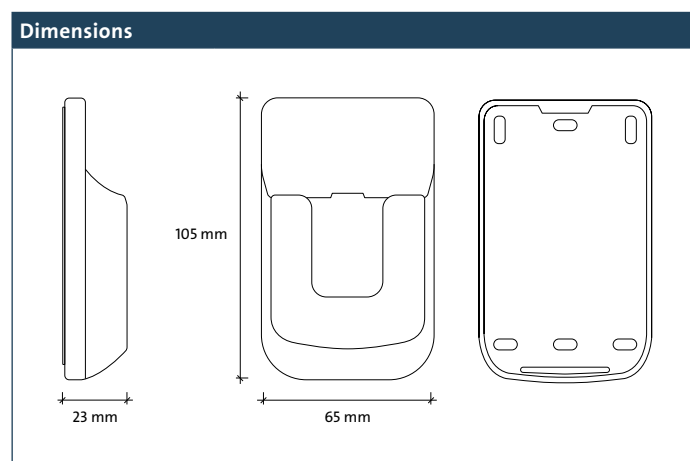
Self-powered Bluetooth hotel card switch

- ✓ for control of selected consumers after access
- ✓ with universal card recognition
- ✓ integrated kinetic energy collector



Product	
Article number:	8674.0101.3
Product name:	Blue-control self-powered Bluetooth hotel card switch, with universal card recognition
EAN code:	4008224669771
PU:	5
PG:	121

Dimensions, weight	
Mechanical dimensions (l x w x h):	105 x 65 x 23 mm
Weight:	69.64 g



Technical features	
Power supply:	Integrated kinetic energy collector
Energy arc path / force:	1.8 mm / typ. 10 N (at room temperature)
Transmit frequency:	2.4 GHz
Range (in housing):	ca. 10 m
Range (free field):	ca. 75 m
Antenna:	Integrated
Standard operating temperature:	25 °C
Operating temperature:	-25 °C to +65 °C
Storage temperature:	-25 °C to +65 °C
Mounting:	Attachment with supplied adhesive strips on flat, smooth surfaces
Mounting position:	Any
Protection class:	IP 20
Conformity:	RED

As soon as the self-powered sensor/switch has been put into operation, it can be by scanning the QR code on the back of the sensor/switch integrated to the app.



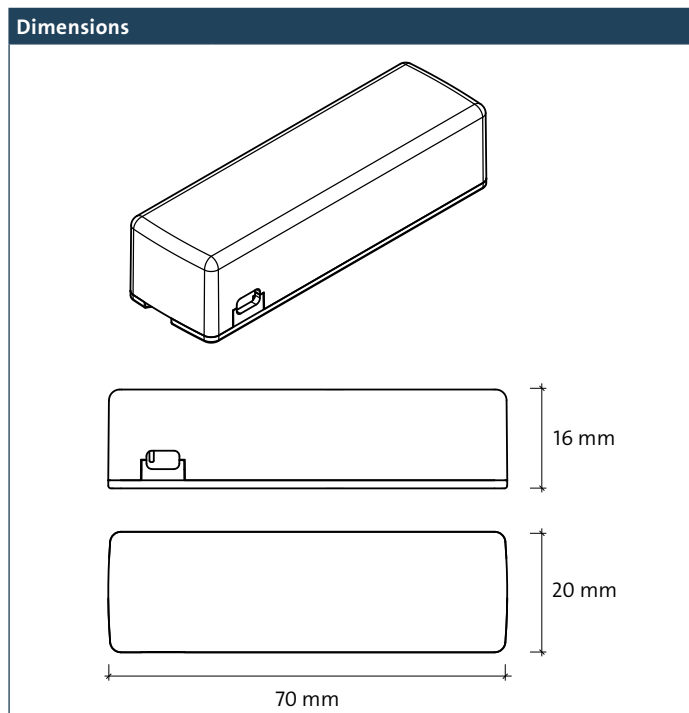
Sensors

Door and window contact

- ✓ for detecting the opening status of doors and windows
- ✓ integrated optical infrared sensor



Product	
Article number:	8627.0101.7
Product name:	Blue-control door and window contact, for the detection of the opening status of doors and windows, integrated optical infrared sensor, battery operated
EAN code:	4008224675413
PU:	5
PG:	120



Technical features	
Power supply:	1.5 V
Backup battery:	1 x Alkaline AA (included in delivery)
Battery life:	ca. 5 years
Frequency:	50 Hz
Transmit frequency:	2.4 GHz
Range (free field):	ca. 150 m
Antenna:	Integrated
Contact:	Optical infrared sensor
Function/Display:	Window/door open or Window/door closed
Bidirectional data transmission:	Yes
Mounting:	Fastening with supplied adhesive pads on the window frame/door frame
Operating temperature:	min 0 °C to +40 °C
Protection class:	IP 20
Conformity:	RED

Dimensions, weight	
Mechanical dimensions (l x w x h)	70 x 20 x 16 mm
Dimensions door-/window contact:	
Mechanical dimensions (l x w x h)	18 x 20 x 16 mm
Dimensions door-/window counter contact:	
Weight:	56 g

As soon as the Bluetooth sensor has been put into operation, it can be by scanning the QR code on the back of the sensor integrated to the app.



Switch

Self-powered Bluetooth wall switch module

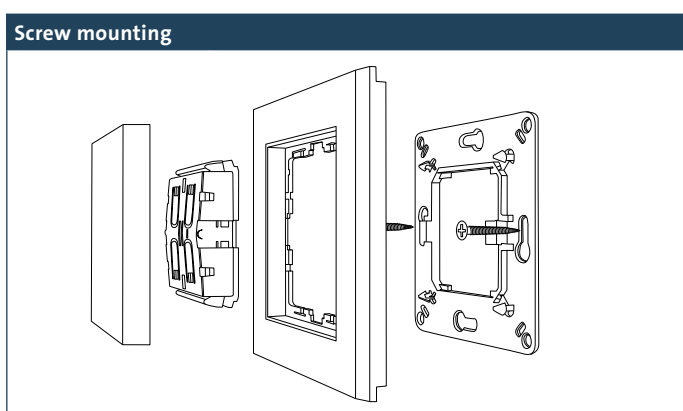
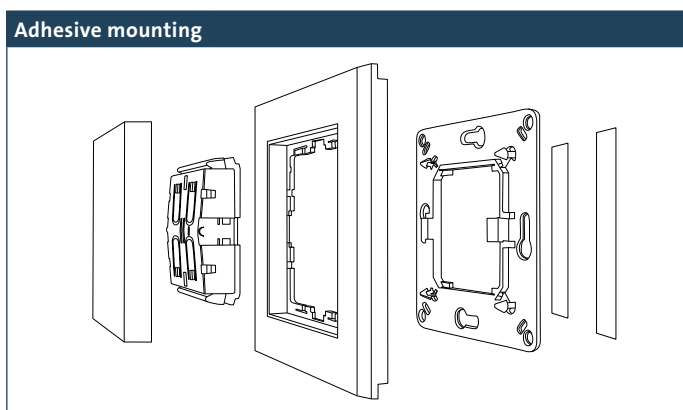
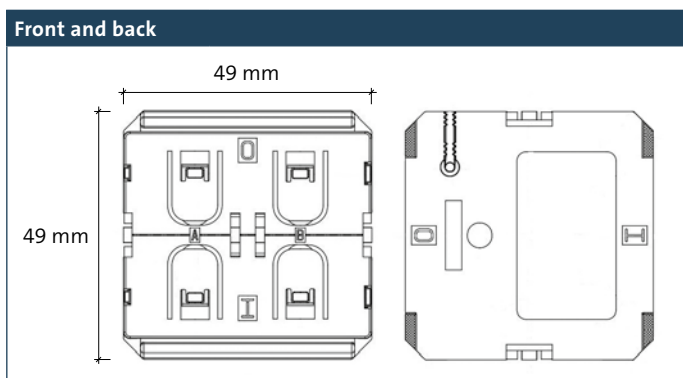


- ✓ for controlling lighting (switch on/switch off, dimming, color change), blinds/awnings/roller shutters and other consumers
- ✓ integrated kinetic energy collector
- ✓ transmitting energy is generated from mechanical energy when the rocker is actuated
- ✓ switch with surface rocker and surface double rocker available
- ✓ freely placeable, no wires or cables are required
- ✓ battery-free – without external power supply

Product	
Article number:	8670.0101.1
Product name:	Blue-control self-powered Bluetooth wall switch module with mounting frame, for the transmission of switching, dimming and shutter commands to Blue-control switch actuators
EAN code:	4008224669733
PU:	5
PG:	121

Dimensions, weight	
Mechanical dimensions (l x w x h):	49 x 49 x 13 mm (modul) 70 x 70 x 10 mm (bottom plate)
Weight:	35.02 g

Technical features	
Power supply:	Integrated kinetic energy collector
Energy arc path / force:	1.8 mm / typ. 10 N (at room temperature)
Transmit frequency:	2.4 GHz
Range (in housing):	up to 10 m
Range (free field):	up to 75 m
Antenna:	Integrated
Number of station presets:	1024
Number of channels:	4
Buttons / Functions:	2 buttons/functions with attached 1-fold rocker switch 4 buttons/functions with attached 2-fold rocker switch
Standard operating temperature:	25 °C
Operating temperature:	-25 °C to 65 °C
Storage temperature:	-25 °C to 65 °C
Protection class:	IP 20
Mounting position:	"TOP" marking upwards
Mounting:	Fastening with supplied screws (e.g., on switch box) or mounting with with supplied adhesive strips on flat, smooth surfaces
Conformity:	RED



More detailed mounting instructions can be found in the operating instructions.

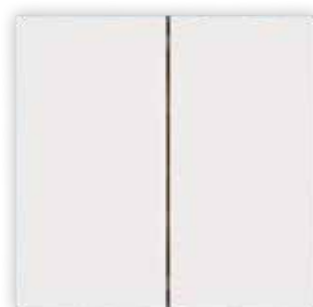
Matching rockers



HK07
Surface rocker
Art. No. 8619.0100.5



HK07
Surface rocker
with arrow symbols
Art. No. 8619.0101.2



HK07
Surface double rocker
Art. No. 8620.0100.9



HK07
Surface double rocker
with arrow symbols
Art. No. 8620.0101.6

Suitable cover frames can be found in the HK07 switch range from Kopp.



Switch

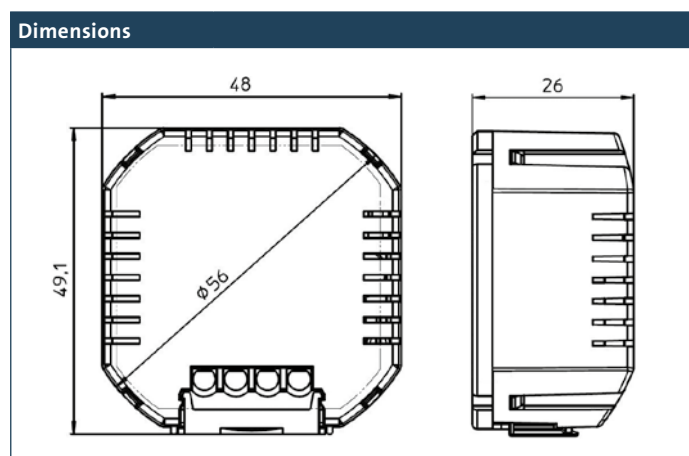
Universal transmitter, 2-channel

- ✓ for connection to, or behind conventional pushbuttons, switches or detectors with potential-free output



Product	
Article number:	8625.0001.0
Product name:	Blue-control universal transmitter, 2-channel, for connection to, or behind conventional buttons, switches or detectors with potential-free output
EAN code:	4008224675314
PU:	5
PG:	121

Dimensions, weight	
Mechanical dimensions (l x w x h):	49.1 x 48 x 26 mm
Weight:	23 g



Technical features	
Power supply:	230 V AC
Frequency:	50 Hz
Transmit frequency:	2.4 GHz
Transmitting power:	< 10 mW
Range (free field):	up to 40 m
Antenna:	Integrated
Number of station presets:	1024
Number of channels:	2
Bidirectional data transmission:	Yes
Switchable voltages:	230 V AC
Functions:	Pushbutton, switch, dimming, shutter
Connectable contactors:	Switches, series switches, pushbuttons, series pushbuttons, shutter switch, bell push button, etc.
Potential-free contacts:	Relays, contactors, impulse switches, motion detectors, etc.
Number of terminals:	5
Standby power (PV):	< 0.4 W
Terminal assignment	L, N, consumer
Clamping cross-section:	1.5 mm ²
Standard operating temperature:	25 °C
Operating temperature:	-20 °C to +60 °C
Storage temperature:	-30 °C to +80 °C
Mounting:	Flush-mounted box, junction box, surface box
Mounting position:	Any
Pollution degree:	2
Protection class:	IP 20
Conformity:	RED



Gateway

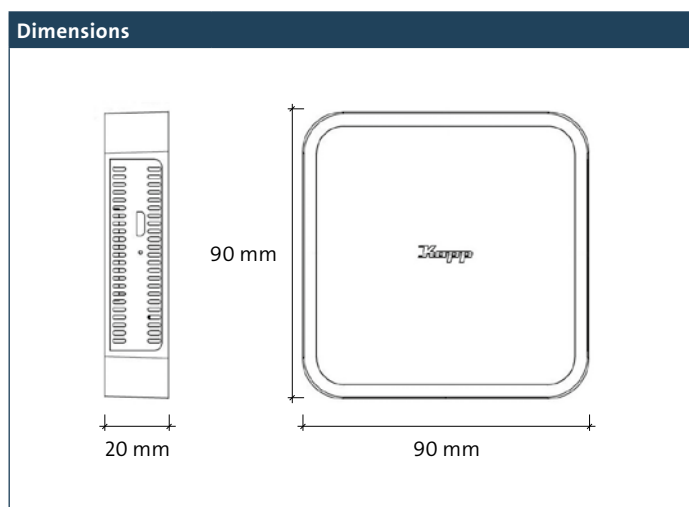
Gateway

- ✓ to control the Blue-control devices remotely via Kopp HomeConnect App
- ✓ connects the devices to the cloud
- ✓ enables the use of voice control services like Amazon Alexa or Google Home



Product	
Article number:	8600.0501.8
Product name:	Blue-control Gateway, for controlling the Blue-control devices remotely via the Kopp HomeConnect App
EAN code:	4008224665933
PU:	1
PG:	121

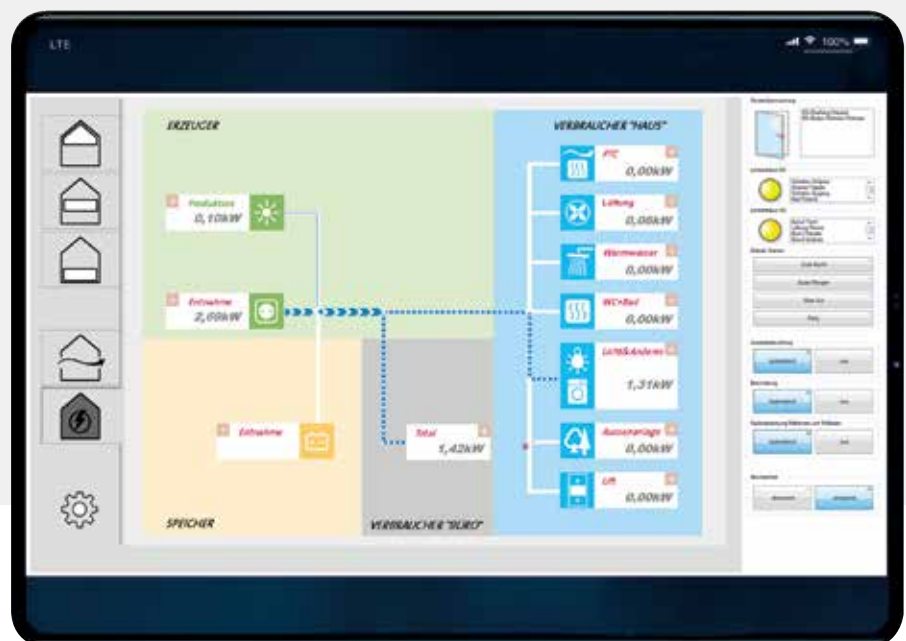
Dimensions, weight	
Mechanical dimensions (l x w x h):	90 x 90 x 20 mm
Weight:	300 g



Technical features	
Power supply:	5 V power supply for the socket
Frequency:	50 Hz
Transmit frequency:	2.4 GHz
Transmitting power:	< 10 mW
Range (free field):	up to 40 m
Antenna:	Integrated
Bidirectional data transmission:	Yes
Standard operating temperature:	25 °C
Operating temperature:	-20 °C to +60 °C
Storage temperature:	-30 °C to +80 °C
Humidity / non condensing:	80 %
Pollution degree:	2
Protection class:	IP 20
Conformity:	RED

Extension to holistic building and energy management – Control and analyze with the Kopp myHomeControl software

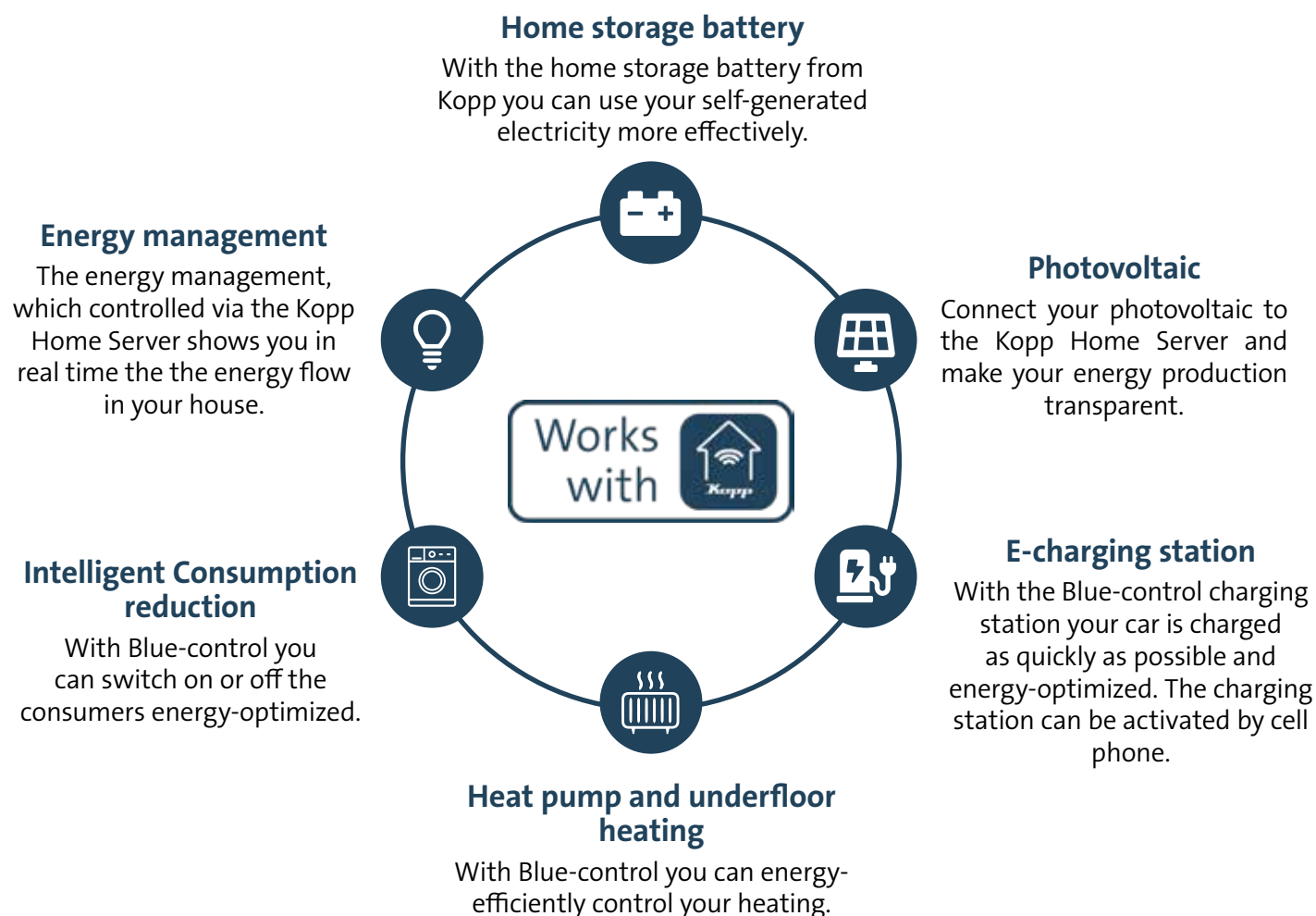
Through the transparency of your energy flows, you always keep an overview of your energy consumption: You have direct control over your power consumption and see where you can save energy and use it elsewhere.



Visualization of the charging process of your electric car with display to the current load power and the loaded energy. Activation of the charging station for energy-optimized and fast charging via software or mobile devices possible.



The intelligent energy management system with the Kopp Home Server



Further information can be found on our website in the Blue-control section.

Heinrich Kopp GmbH
Alzenauer Straße 68
63796 Kahl/Main
GERMANY
phone: +49 6188 40-0
fax: +49 6188 8669
E-mail: vertrieb@kopp.eu

www.kopp.eu

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Kopp einschalten.

Kopp

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