Berker by Hager electronics

Let's
take a look...

9+16 Inserts

16 Application modules

>400 Functions

KNX radio by Hager makes everything simpler for you. Nine inserts and 16 application modules will provide you and your customers with the full range of around 400 different functions. The Berker by Hager switch ranges S.1, B.3, B.7, Q.1, Q.3, K.1, K.5, R.1 and R.3 are available in conventional and in KNX radio technology. As suitable for new buildings as for the refitting or extension of existing installations.

It is equipped with amazing functions, such as precise dimming of almost any lighting. With less components, an easier installation and intuitive operation, the KNX radio range offers you a whole world of options. The existing individual systems - Radio bus, RolloTec and BLC - are being replaced by a single innovative system. To take advantage of its benefits, you just need to do one thing: Change over now.

Let's go!

- The system for light and blind control and for motion detectors
- Replaces the RolloTec, Radio bus and BLC systems
- Fewer flush-mounted inserts, more functions
- Optimised portfolio with a standardised design
- Conventional, radio and KNX-compatible solutions
- Simple to install and to teach in for KNX radio via **quick**link
- Intuitive operation, maximum operating comfort

and start again !

Summary


Really
Very
Innovative

Integrated design attractive

Life is complicated enough as it is. Why do the switches and controllers in your own home need to make it even more so? All the function application modules, such as motion detectors, blind and light controllers, now speak the same design language and have the same feel. This allows you concentrate on the important things: Excellent functionality and attractive design.

Q.3 motion detector KNX radio

S.1
Button, 1gang

Q.3
Button, 1gang

B.7
KNX radio button,
2gang

K.1
Wall-transmitter

B.3
KNX radio
timer

S.1
Blind button

Q.3
KNX radio button,
4gang

B.7
Wall transmitter, solar

K.5
Blind button

B.3
KNX radio
blind time switch

S.1
Motion detector

Q.1
Motion detector

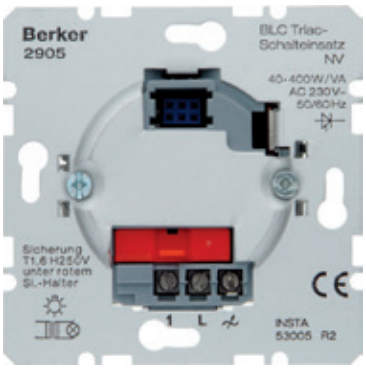
B.7
Motion detector

K.1
Motion detector

B.3
Motion detector

Less inserts
innovative

BLC Tronic insert (R, C), 2916

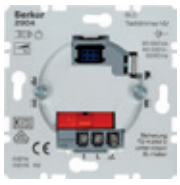


BLC triac insert (R, L), 2905

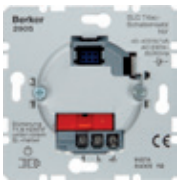
Before

2901
Universal series touch dimmer
(R, L, C)

2902
BLC universal touch dimmer
(R, L, C)



2904
BLC touch dimmer
(R, L)



2905
BLC triac insert
(R, L)

2906
BLC relay insert

2907
BLC extension unit

2908
BLC extension unit for motion detector

2912
BLC relay insert HVAC

2916
BLC Tronic insert
(R, C)

293410
BLC stair light impulse insert

290610
BLC relay switch insert with potential-free contact

2925
RolloTec insert

2975
RolloTec insert comfort

Switch insert, 1gang, 8512 11 00

From three, make one.
The individual systems RolloTec, Radio bus and BLC have been replaced with a single, versatile, standardised electronics platform. Thus, multiple functions can be covered with a single insert.
For you, this means: Less components, reduced storage requirements and simpler handling with more functions.
Hager KNX radio components mean you always have the right solution to hand, from simple individual installations through to a complex system solution.

After

8512 12 00
Relay insert

8542 11 00
Touch dimmer
(R, L)

8542 12 00
Universal touch dimmer, 1gang

8542 21 00
Universal touch dimmer, 2gang

8502 01 00
Power supply for radio application module

8512 11 00
Switch insert, 1gang

8512 22 00
Switch insert, 2gang

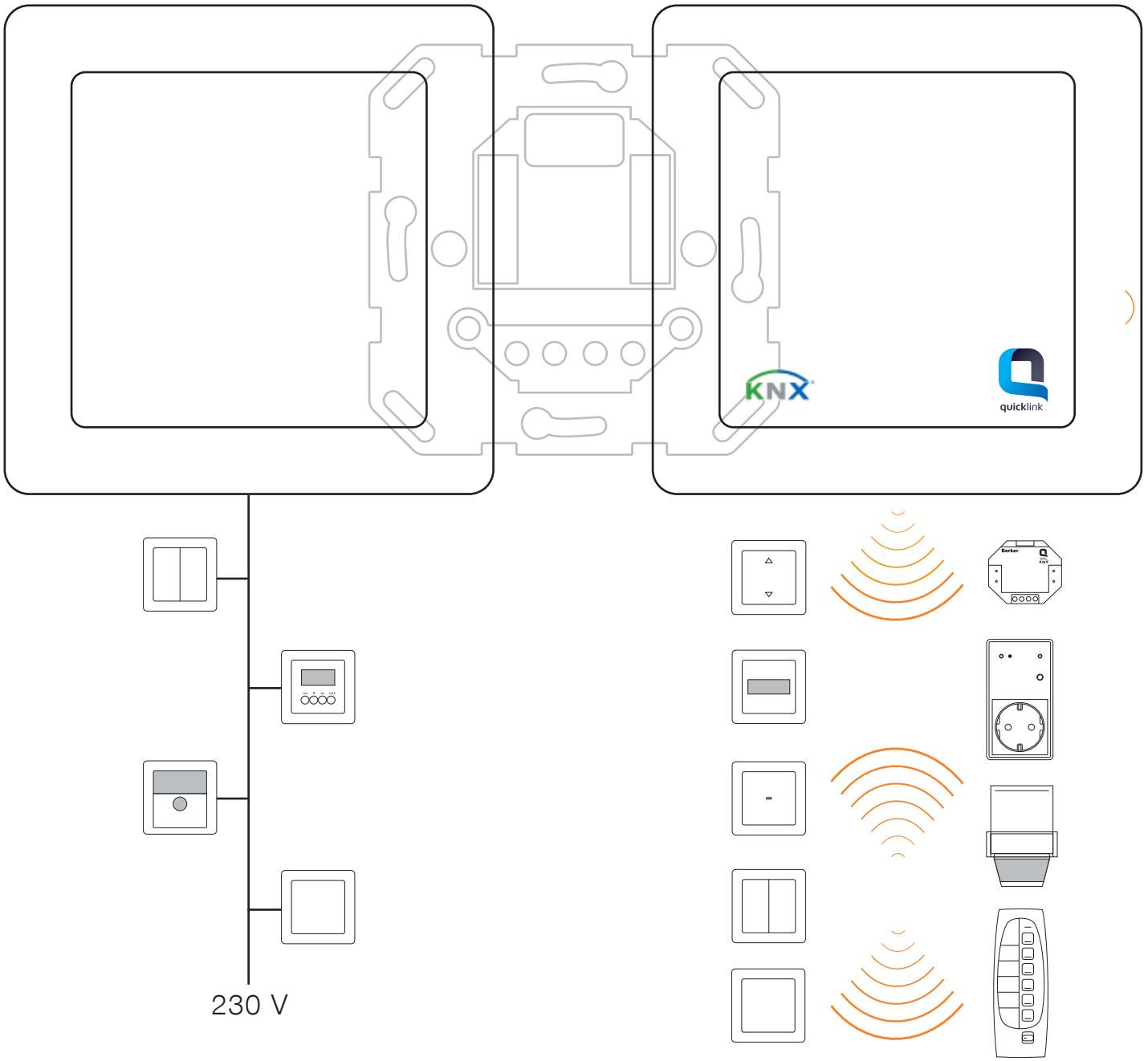
8522 11 00
Blind insert comfort

8532 01 00
Extension unit for motion detector

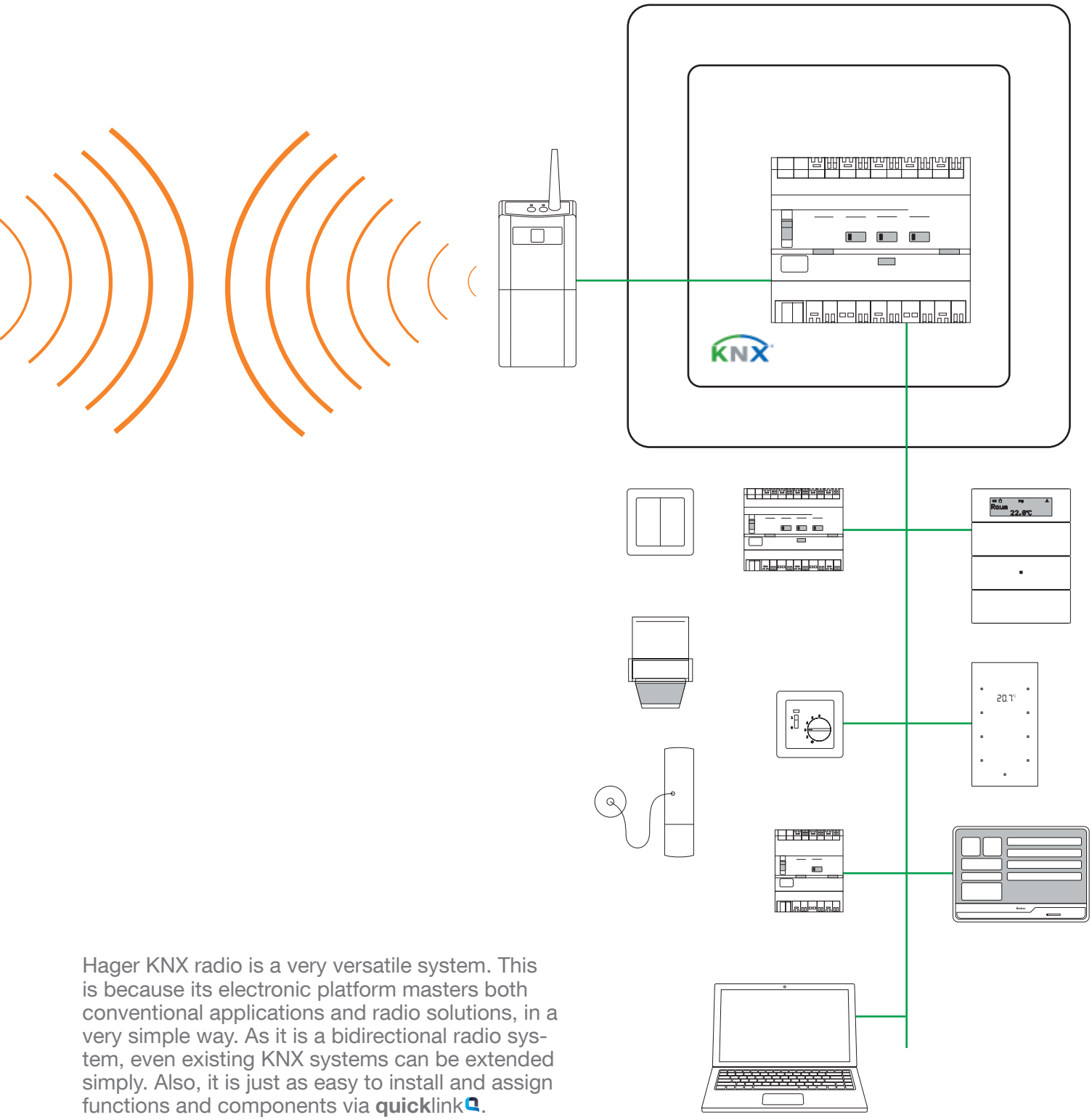
Flexible system

Conventional installation

Installation with radio network commissioning with **quick**link



KNX radio-network and
KNX two-wire installation



Hager KNX radio is a very versatile system. This is because its electronic platform masters both conventional applications and radio solutions, in a very simple way. As it is a bidirectional radio system, even existing KNX systems can be extended simply. Also, it is just as easy to install and assign functions and components via **quick**link.

Quick connection

Complicated configurations are a thing of the past. Now, you can define the functions of your devices quickly via **quick**link. **quick**link is a simple method of commissioning, based on the KNX radio standard and supported by all the appropriate Hager solutions. Its most important feature: simplicity. Just a few touches of a button are all it takes to teach your device the desired function. In this way, you can use a radio wall button or remote control to contact functions such as lighting, roller shutters, blinds, outdoor motion detectors or garage doors individually. All the solutions are intercompatible. Up to 20 devices can be interlinked in a single application. In the same way, more complex applications such as time, group or scene control can be configured via **quick**link - everything at the touch of a button and everything kept simple.

quicklink

cfg = Configuration button
fct = Function button

1

Activate configuration
Press the cfg button of the transmitter briefly. The cfg LEDs of the transmitter and all receivers in range light up.

2

Input selection
On the transmitter, briefly press the button to be assigned to a function. The cfg LED of the transmitter flashes for one second. The transmitter and receiver are now in configuration mode.

3

Select the function
Keep pressing the fct button of the receiver until the desired function is displayed by the "fct" LED.

4

Confirm the function
To confirm the required function, press and hold down the fct button of the receiver for longer than two seconds, until the "cfg" LED flashes. To set group controls, repeat steps 3 and 4 on all the other receivers of the group.

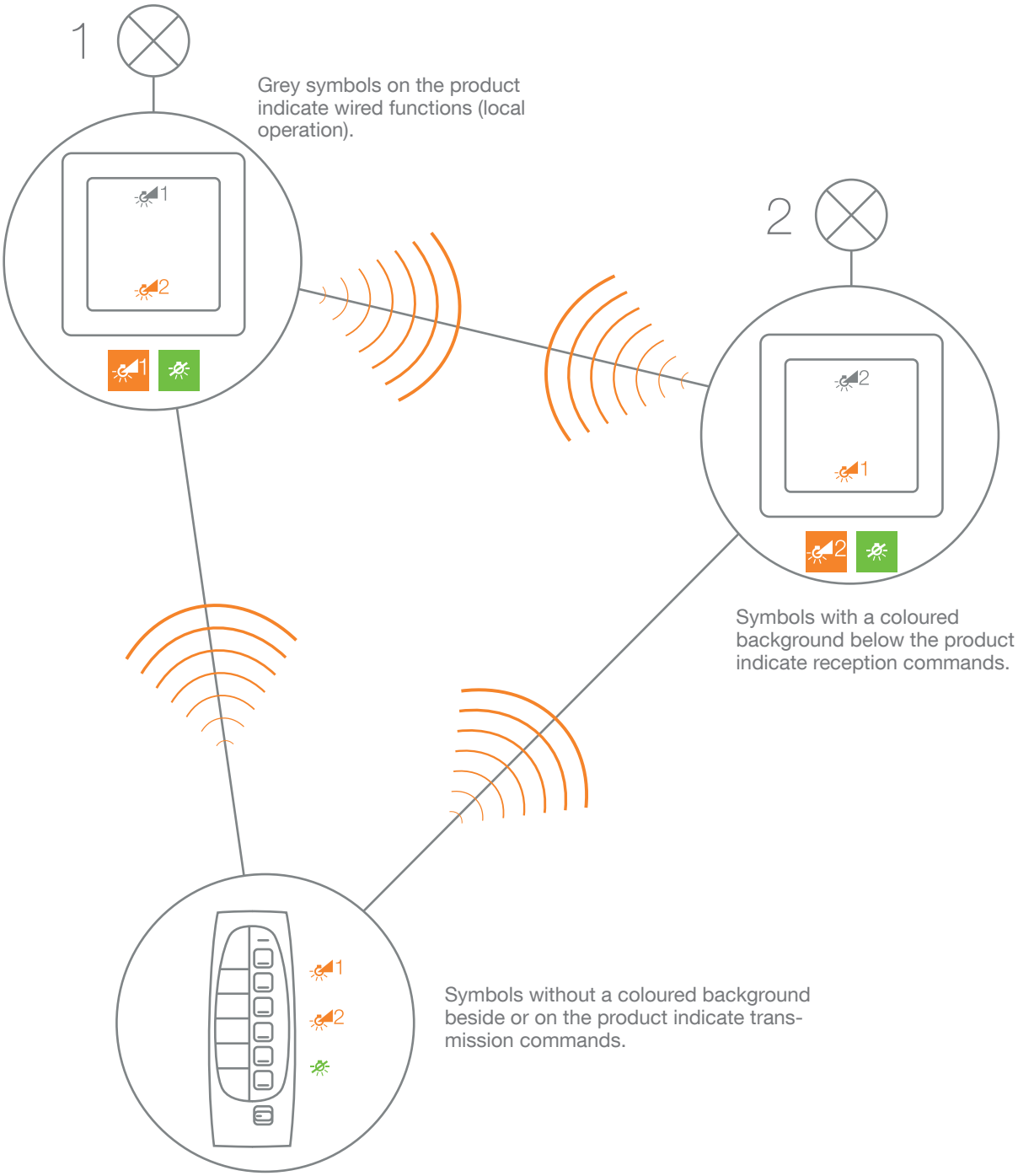
5

End configuration
Press the cfg button of the transmitter briefly again. The "cfg" LEDs of the transmitter and all receivers go out. That just shows you how quick configuration is!

Intelligent technology

Hager KNX radio components are easy to install, can be combined perfectly and can be extended at any time, as required. This is ensured by the bidirectional KNX radio technology used here. When combined with KNX radio application modules, the load connected to the flush-mounted insert can also be controlled by other KNX radio devices via radio signal, without being wired together. By contrast, the KNX radio application modules can not only control the directly controlled load, but can also be additionally configured as the transmitter and, itself, control other loads in the KNX radio system remotely via radio signal.
In the following application examples, the symbols show you how the KNX radio devices communicate with each other and which loads are controlled.

Wired functions		Functional description
1/ 2		Lamp 1/lamp 2: Switch on/off
Transmit	**Receive**	**Functional description**
1	1	Lamp 1: Switch on/off and dim brighter/darker
2	2	Lamp 2: Switch on/off and dim brighter/darker
		Central function: Switch all lamps on/off

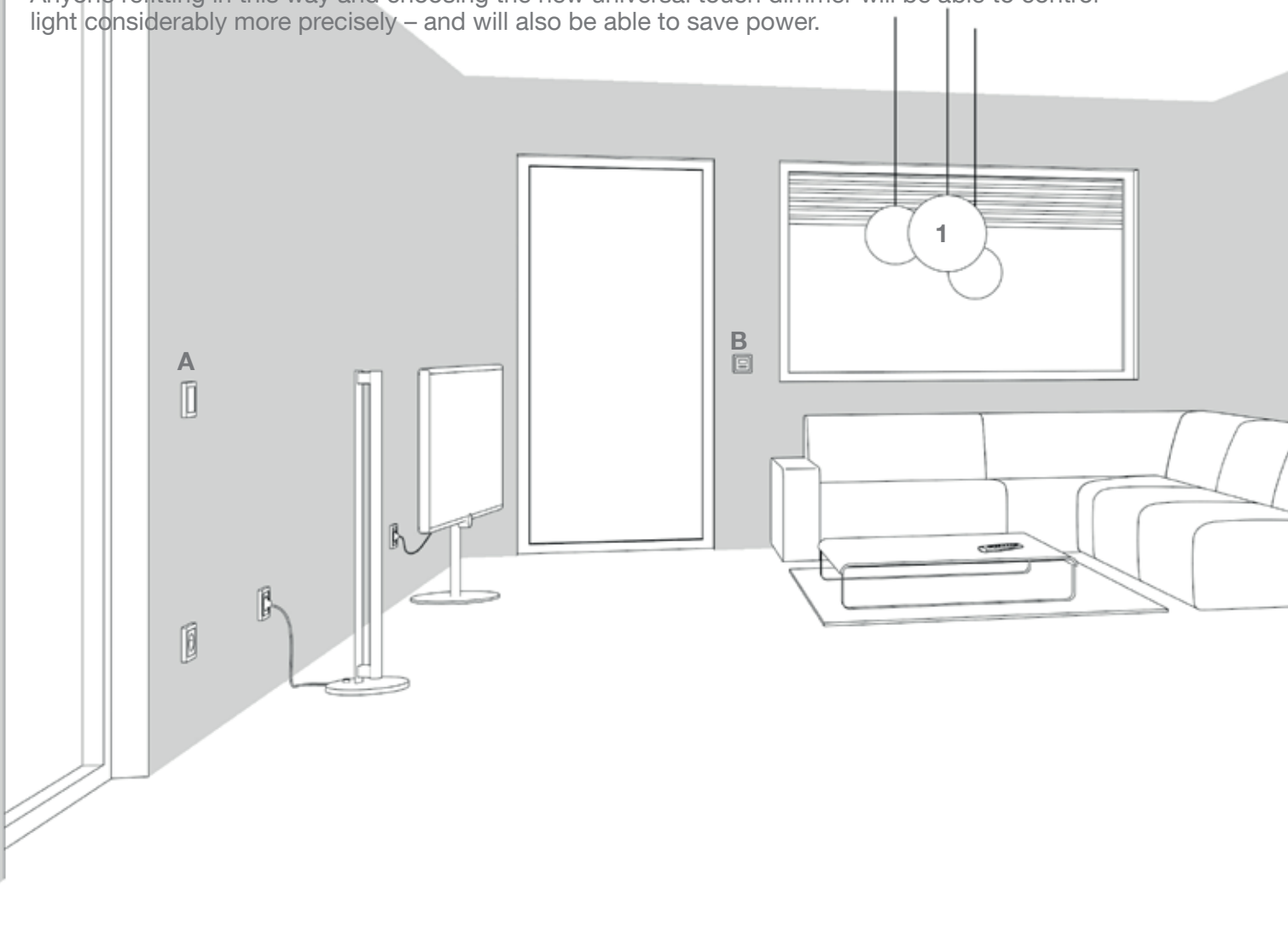

1
Grey symbols on the product indicate wired functions (local operation).
2
Symbols with a coloured background below the product indicate reception commands.
Symbols without a coloured background beside or on the product indicate trans-mission commands.

Application examples

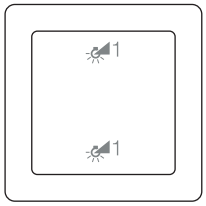

Yes

It's this simple:
living room

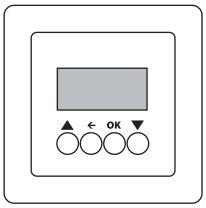
Replace the switch, insert the dimmer: Never before has it been this easy to combine increased lighting comfort with low energy consumption. As the first dimmer of its kind, the KNX radio universal touch dimmer can control almost all dimmable light sources, from LED and energy-saving lamps through incandescent lamps through to halogen lighting, both reliably and without flickering. Anyone refitting in this way and choosing the new universal touch dimmer will be able to control light considerably more precisely – and will also be able to save power.



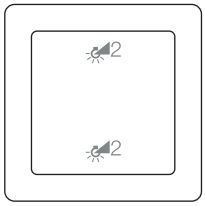
A Button, 1gang, on universal touch dimmer, 1gang



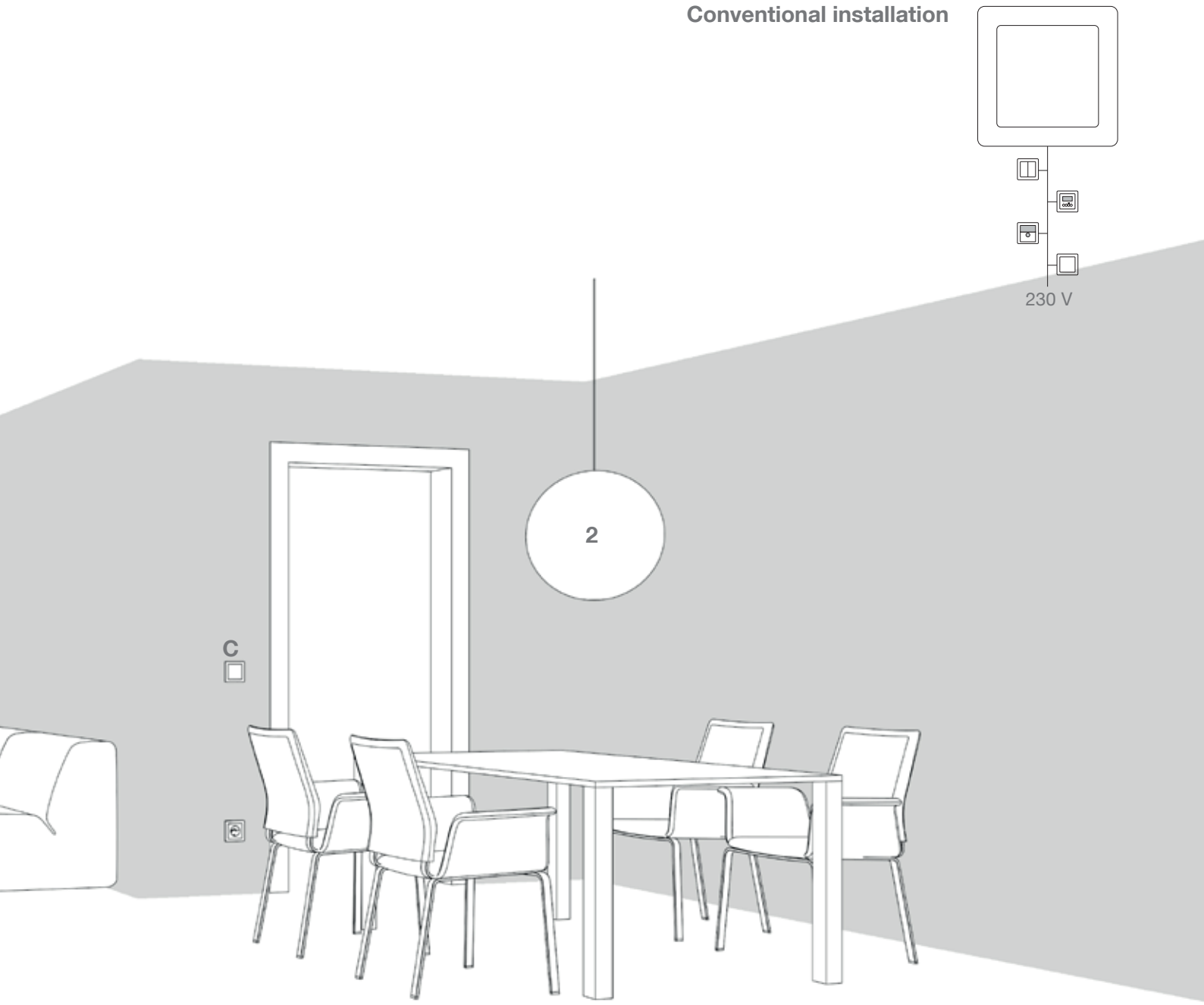
B Blind time switch on blind insert comfort



C Button, 1gang, on universal touch dimmer, 1gang

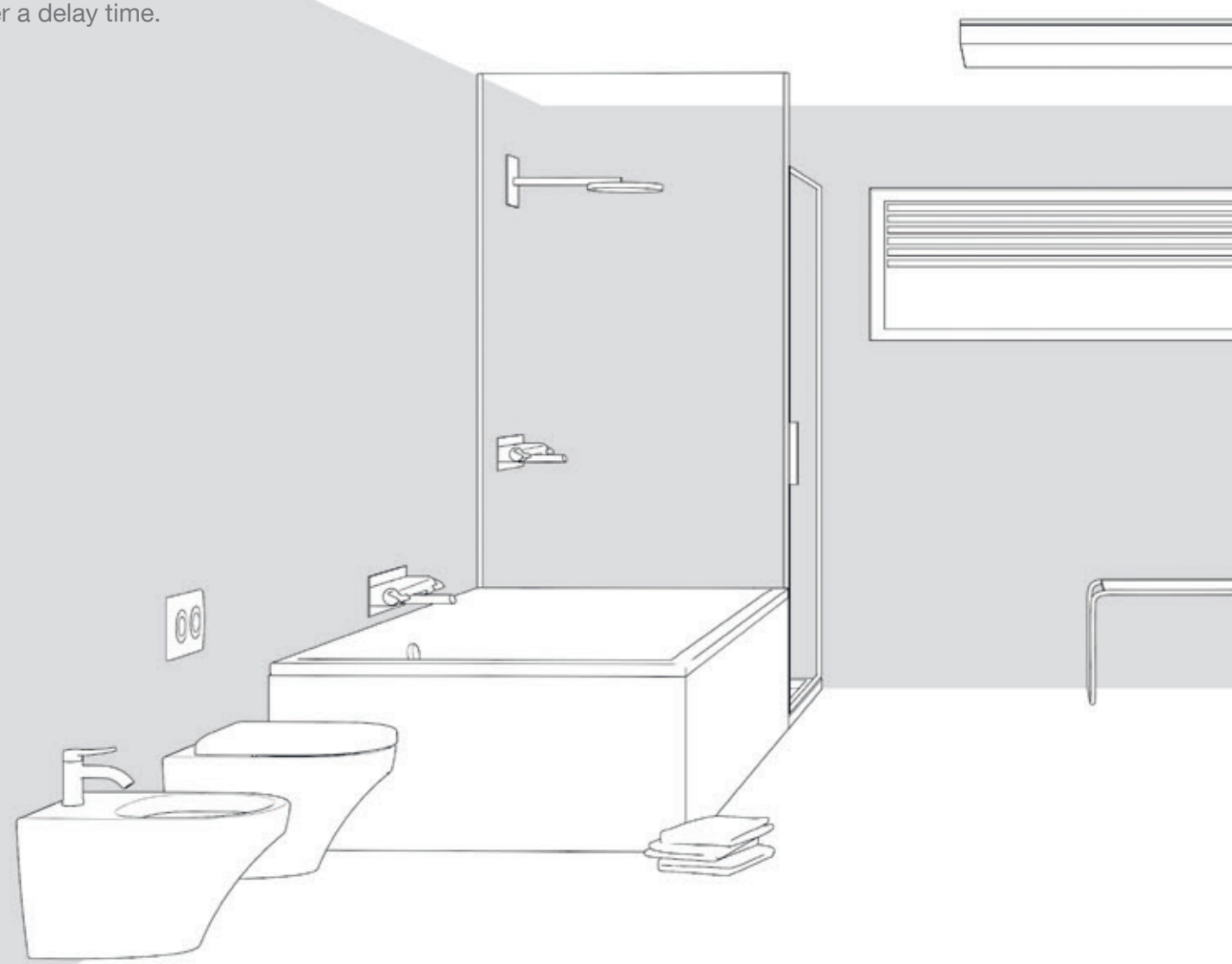


Conventional installation

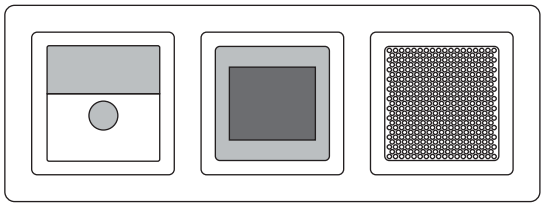


It's this simple: bathroom

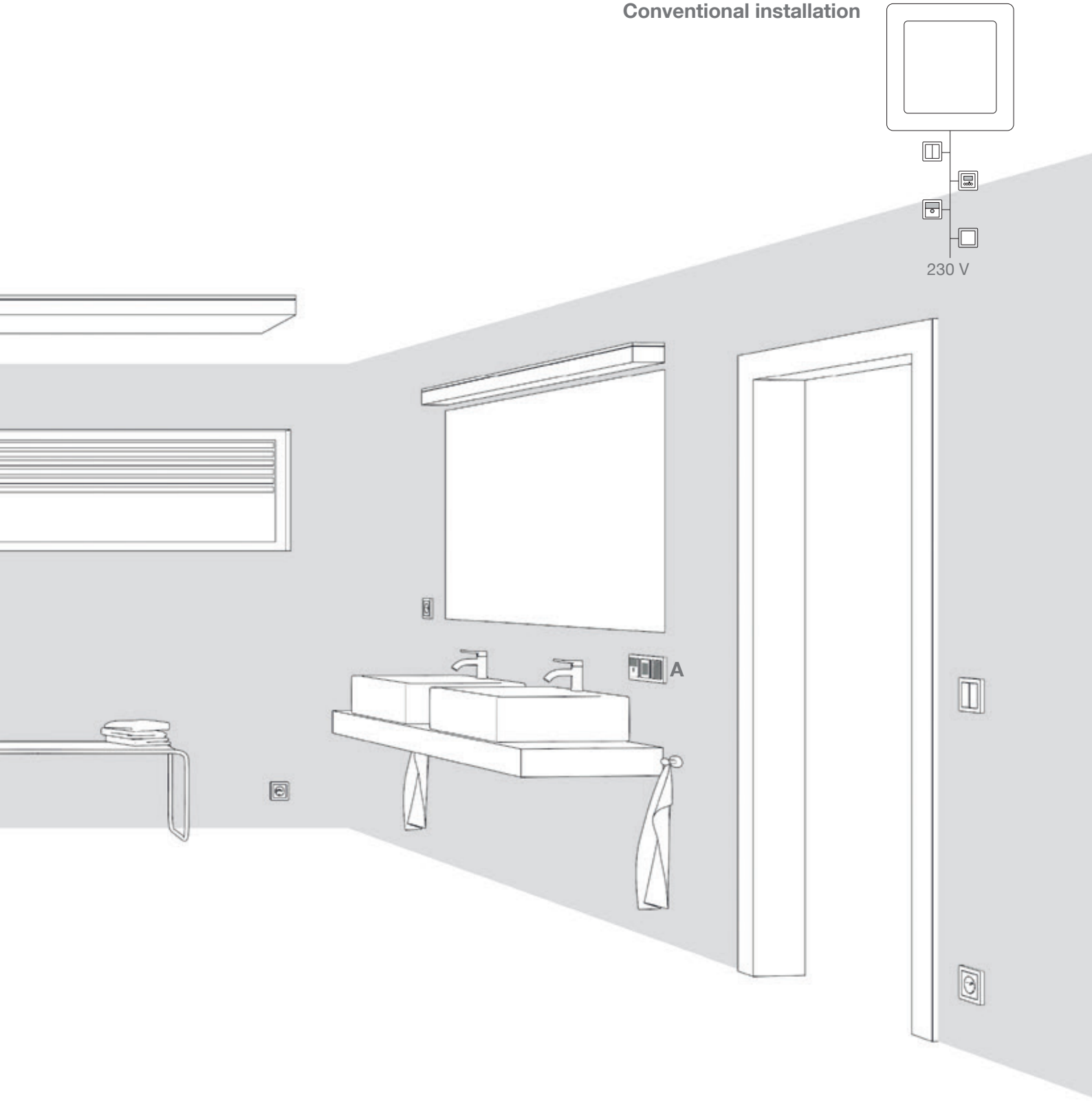
Getting all the information you need in the morning, and finishing off the evening with good music: Hager KNX radio makes it possible. In the bathroom, a motion detector switches the flush-mounted radio on as soon as you enter the room. When you leave the bathroom, it also switches the radio off again after a delay time.



A Radio in combination with motion detector on relay insert



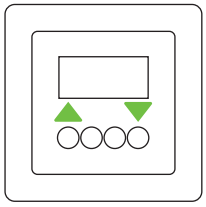
Conventional installation



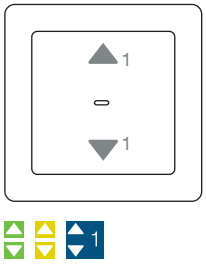
It's this simple:
office / meeting room

When a presentation is due to start, a room needs to be darkened quickly. In a meeting room, there are several options for this: centrally via a KNX radio blind timer, in a brightness-dependent manner using a KNX radio brightness sensor, manually using a KNX radio blind button or really simply, directly from the desk using the KNX radio hand-held transmitter.

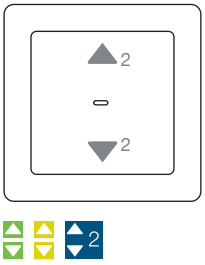
A KNX radio blind timer and mains insert for radio application module



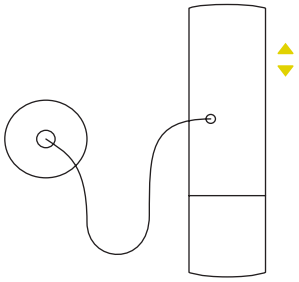
B KNX radio blind button on blind insert comfort



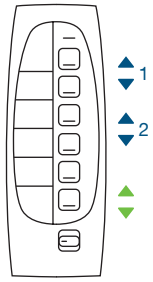
C KNX radio blind button on blind insert comfort



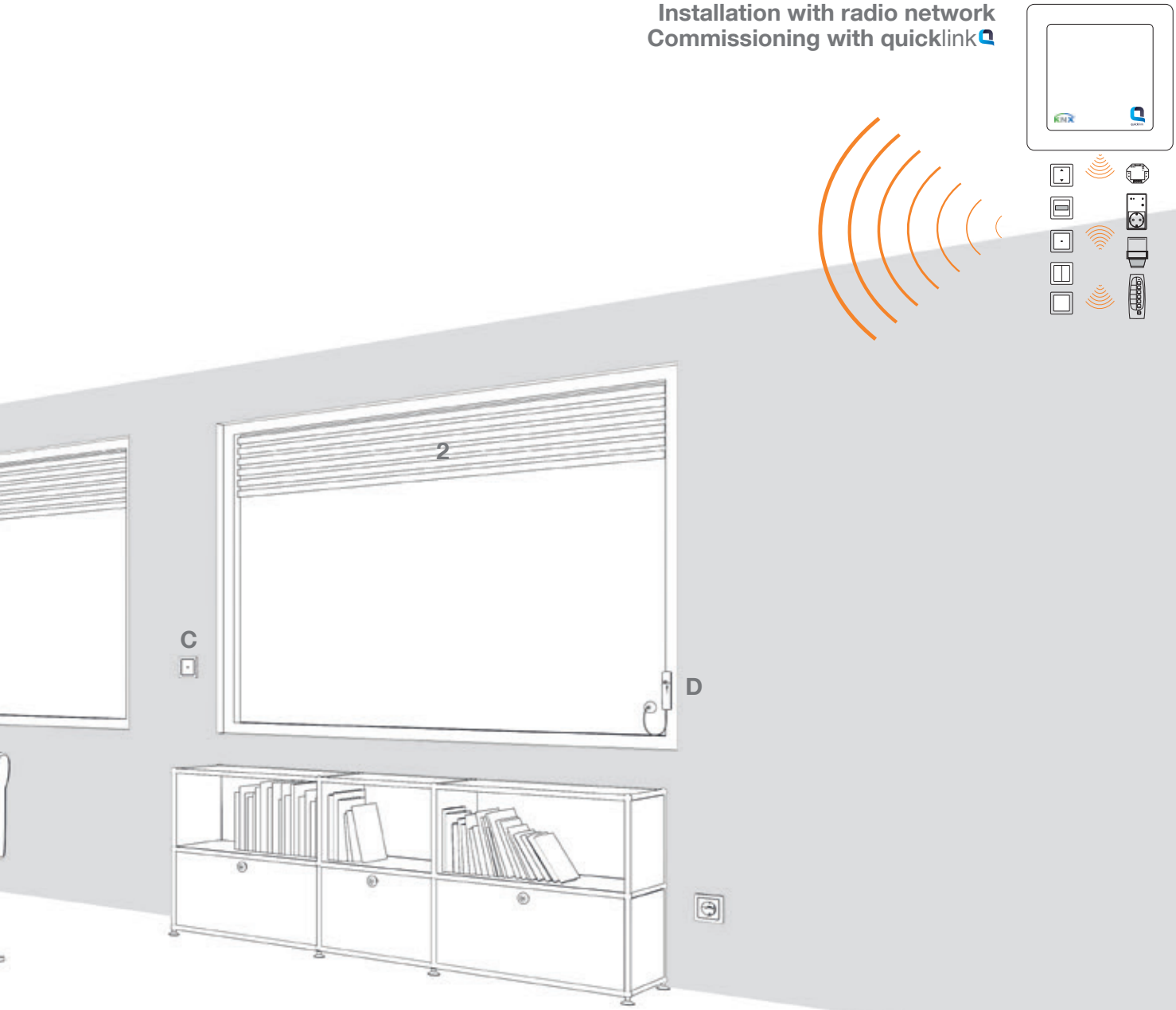
D KNX radio brightness sensor



E KNX radio hand-held transmitter



Installation with radio network
Commissioning with quicklink

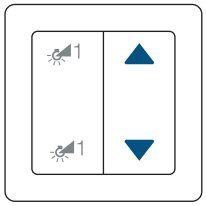


Transmit	Receive	Functional description
1	1	Blind 1: Move up/down
2	2	Blind 2: Move up/down
		Central function: Blinds: Move up/down
		Blinds 1 and 2: Move up/down, sun protection with KNX radio brightness sensor

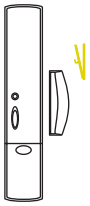
It's this simple: kitchen

In well-insulated houses and apartments with an open fire, an extractor hood may only be switched on when a window is open to allow fresh air to enter.
The KNX radio adapter plug ensures that this is not forgotten: Only when a window is open will it switch the plug and supply the extractor hood with voltage. Thus it always ensures that there is sufficient air and safety.

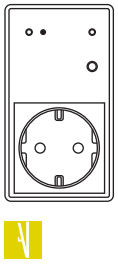
A KNX radio button, 4gang on universal touch dimmer, 2gang



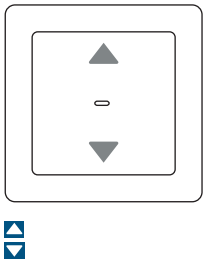
B KNX radio magnetic contact



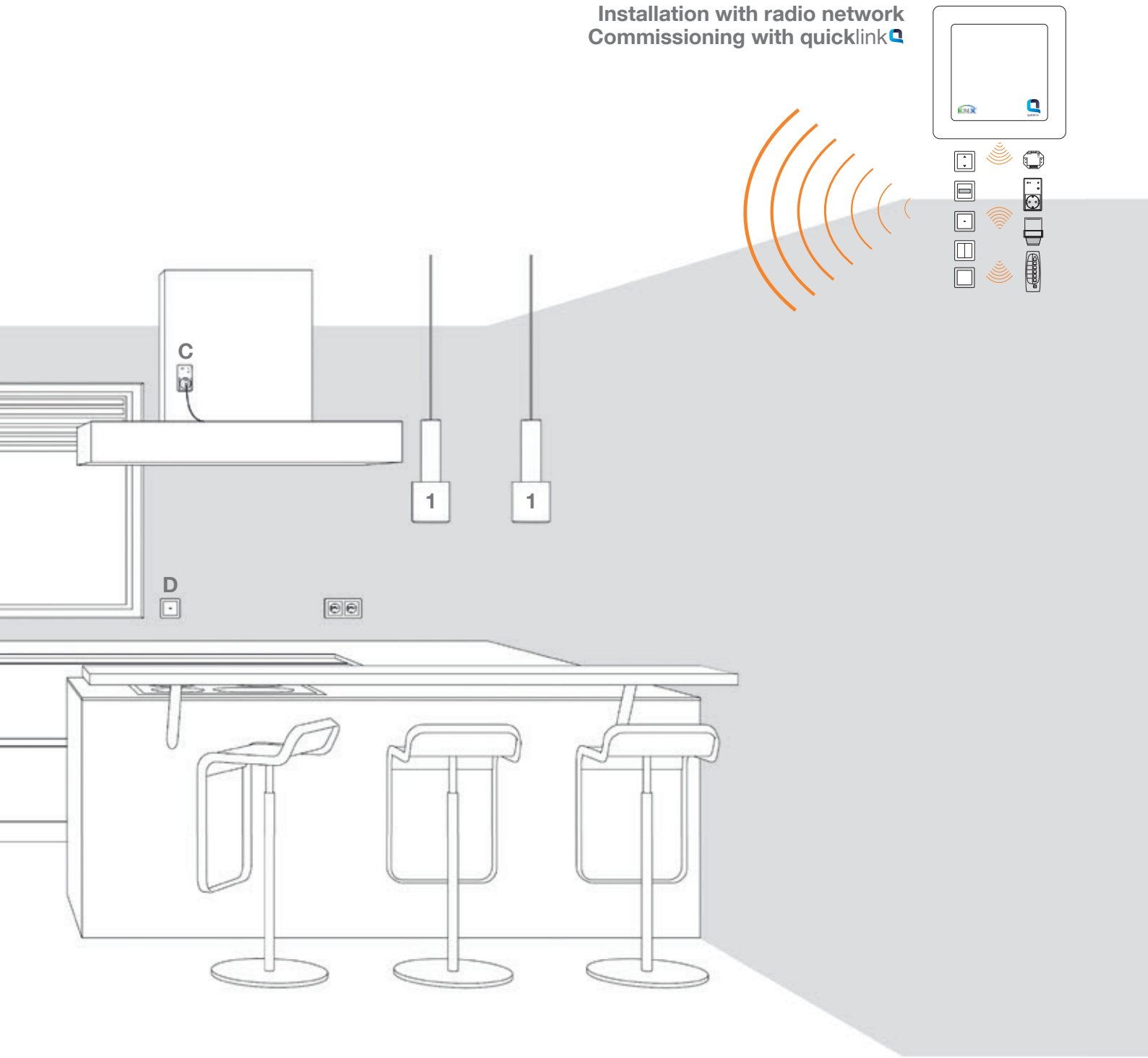
C KNX radio adapter plug



D KNX radio blind button on blind insert comfort



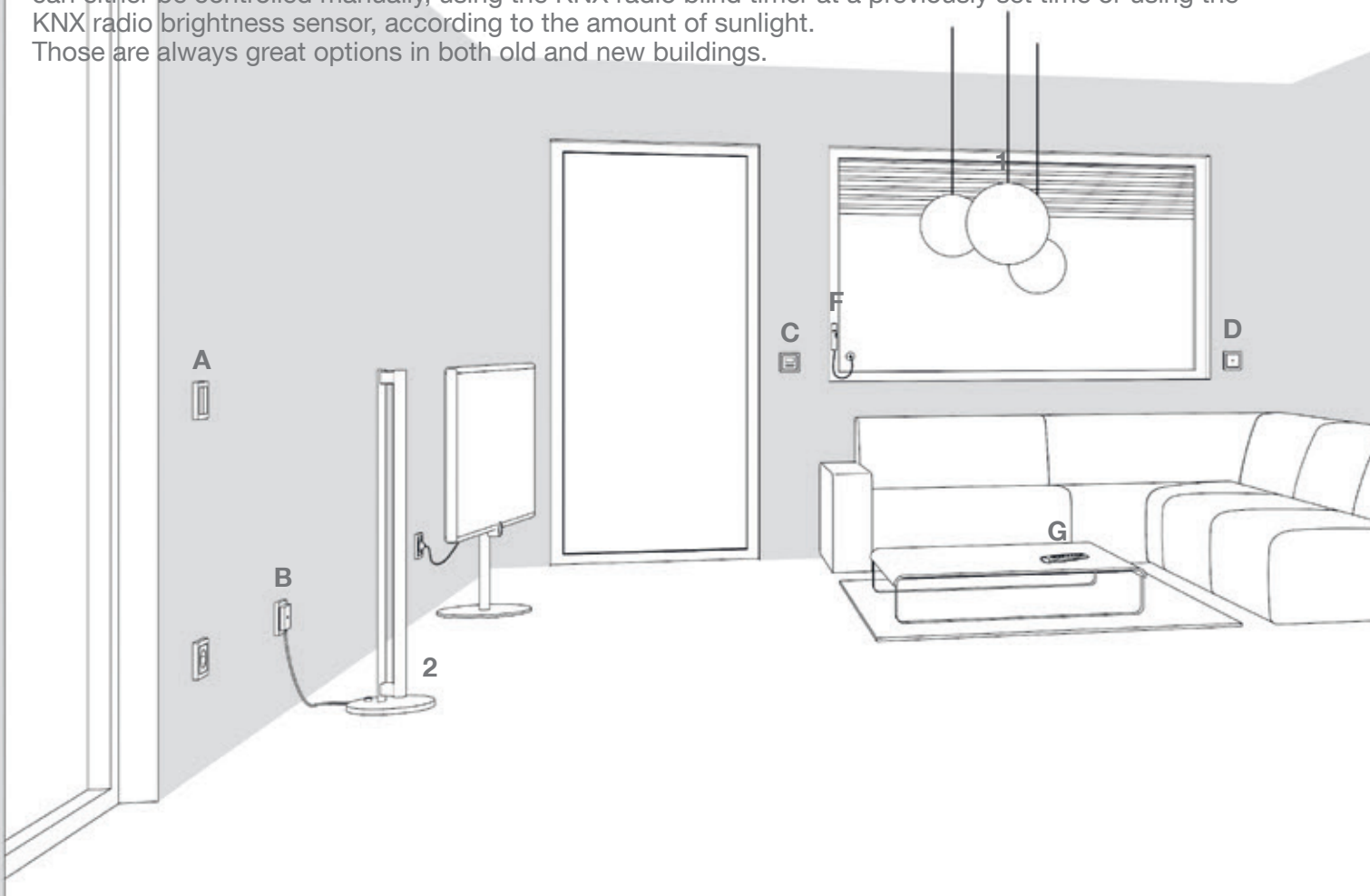
Installation with radio network
Commissioning with quicklink



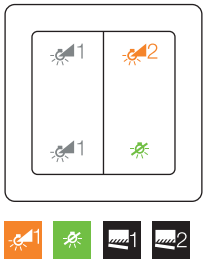
Transmit	Receive	Functional description
		Socket outlet: Connect mains
		Blind: Move up/down

It's this simple: living room

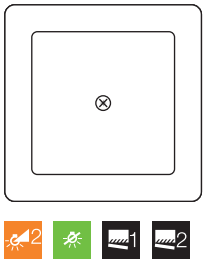
You can greatly expand your options through a radio-supported installation - particularly during the renovation or modernisation of existing buildings. In situations in which existing electrical installations do not allow refitting of intelligent functions, just refit by radio! In the living room, for example, the KNX radio 4gang buttons of the touch dimmer and the hand-held transmitter allow switching and dimming of all three lamps. When you come together to eat, the "Eating" scene can be called up in the dining area using the touch dimmer. If, afterwards, you want to relax in front of the television, the "TV" scene dims the standard lamp and the living room lamp and the dining room lamp is switched off. In turn, the blinds can either be controlled manually, using the KNX radio blind timer at a previously set time or using the KNX radio brightness sensor, according to the amount of sunlight.
Those are always great options in both old and new buildings.



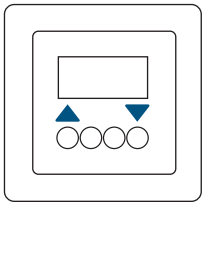
A KNX radio button, 4gang on universal touch dimmer, 1gang



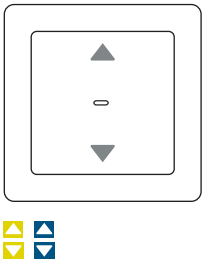
B Blind plug on KNX radio universal dim actuator, 1gang, flush-mounted



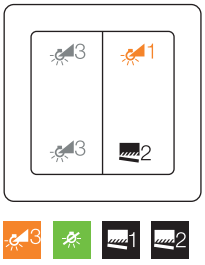
C KNX radio blind time switch on blind insert comfort



D KNX radio blind button on blind insert comfort

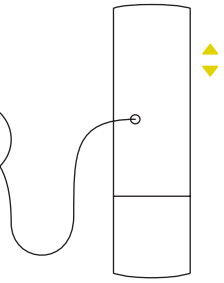


E KNX radio button, 4gang on universal touch dimmer, 1gang

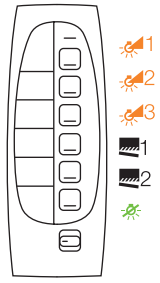


Installation with radio network
Commissioning with quicklink

F KNX radio brightness sensor



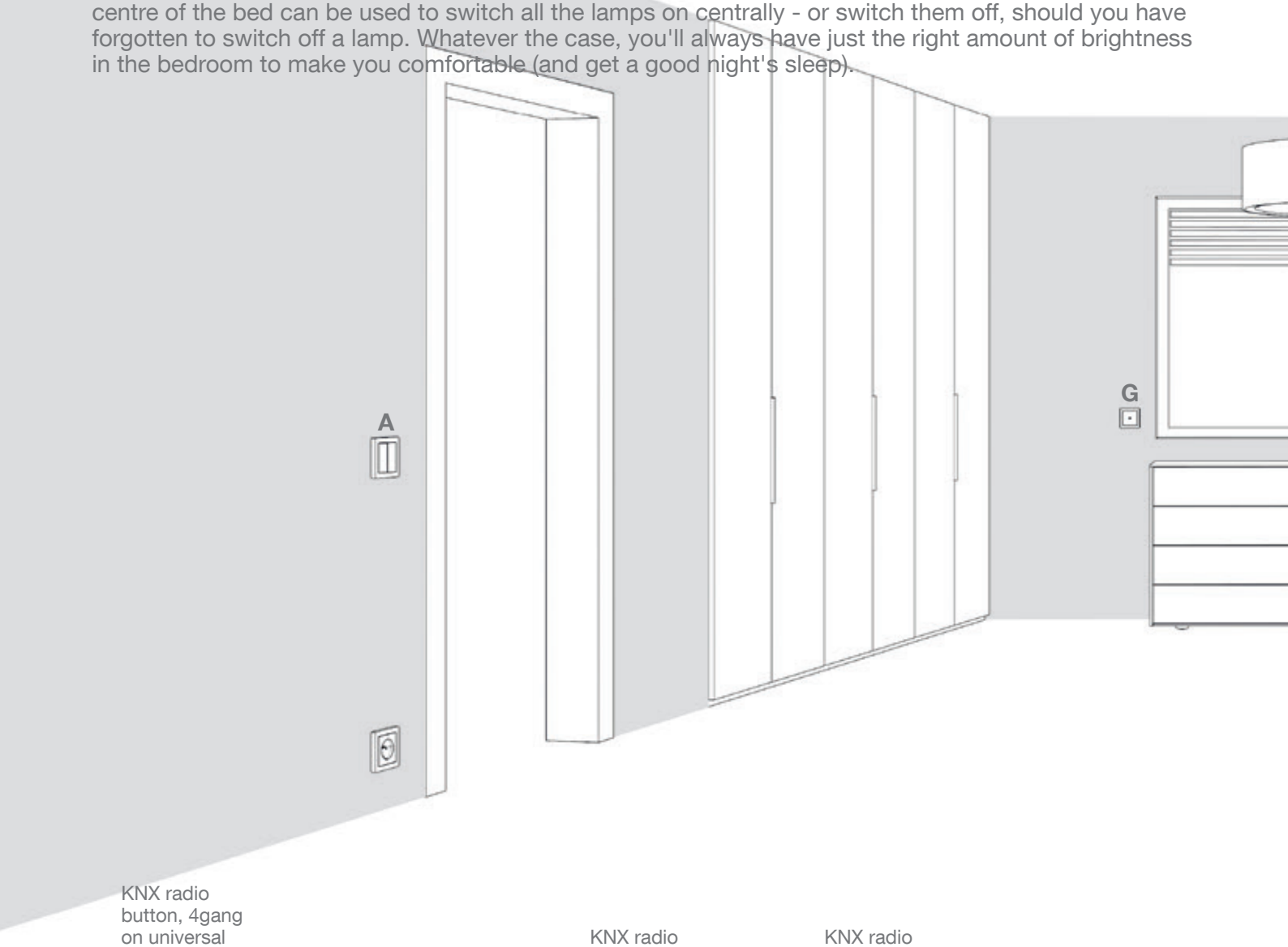
G KNX radio hand-held transmitter



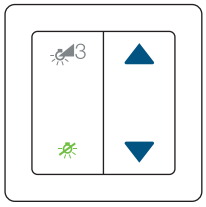
Transmit	Receive	Functional description
1	1	Ceiling lamp, living room: Switch on/off and dim brighter/darker
2	2	Standard lamp, living room: Switch on/off and dim brighter/darker
3	3	Ceiling lamp, living room: Switch on/off and dim brighter/darker
		Blind: Move up/down
		Blind: Move up/down, sun protection function with KNX radio brightness sensor
		Central function: Switch all lamps on/off
1	1	Scene 1 (TV): Switch on standard lamp at 50 %, switch on living room ceiling lamp at 30 % and switch off dining room ceiling lamp
2	2	Scene 2 (Eating): Switch on standard lamp at 50 %, dining room ceiling lamp at 70 % and switch off living room ceiling lamp

It's this simple: bedroom

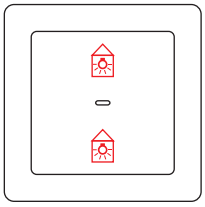
A great example for the wide range of options of Hager KNX radio: The touch dimmers and the wall transmitters can control the ceiling lamp, switch light sources off centrally and raise and lower roller shutters. Just like in a hotel room, the wall transmitters can switch and dim the bedside/ceiling light and raise and lower the roller shutter. In addition, the panic function on the wall transmitter above the centre of the bed can be used to switch all the lamps on centrally - or switch them off, should you have forgotten to switch off a lamp. Whatever the case, you'll always have just the right amount of brightness in the bedroom to make you comfortable (and get a good night's sleep).



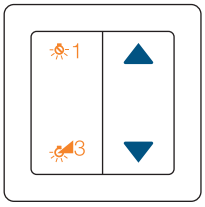
A KNX radio button, 4gang on universal touch dimmer, 1gang



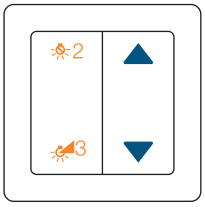
B KNX radio wall transmitter



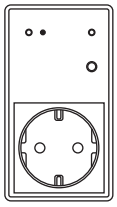
C KNX radio wall transmitter, 2gang



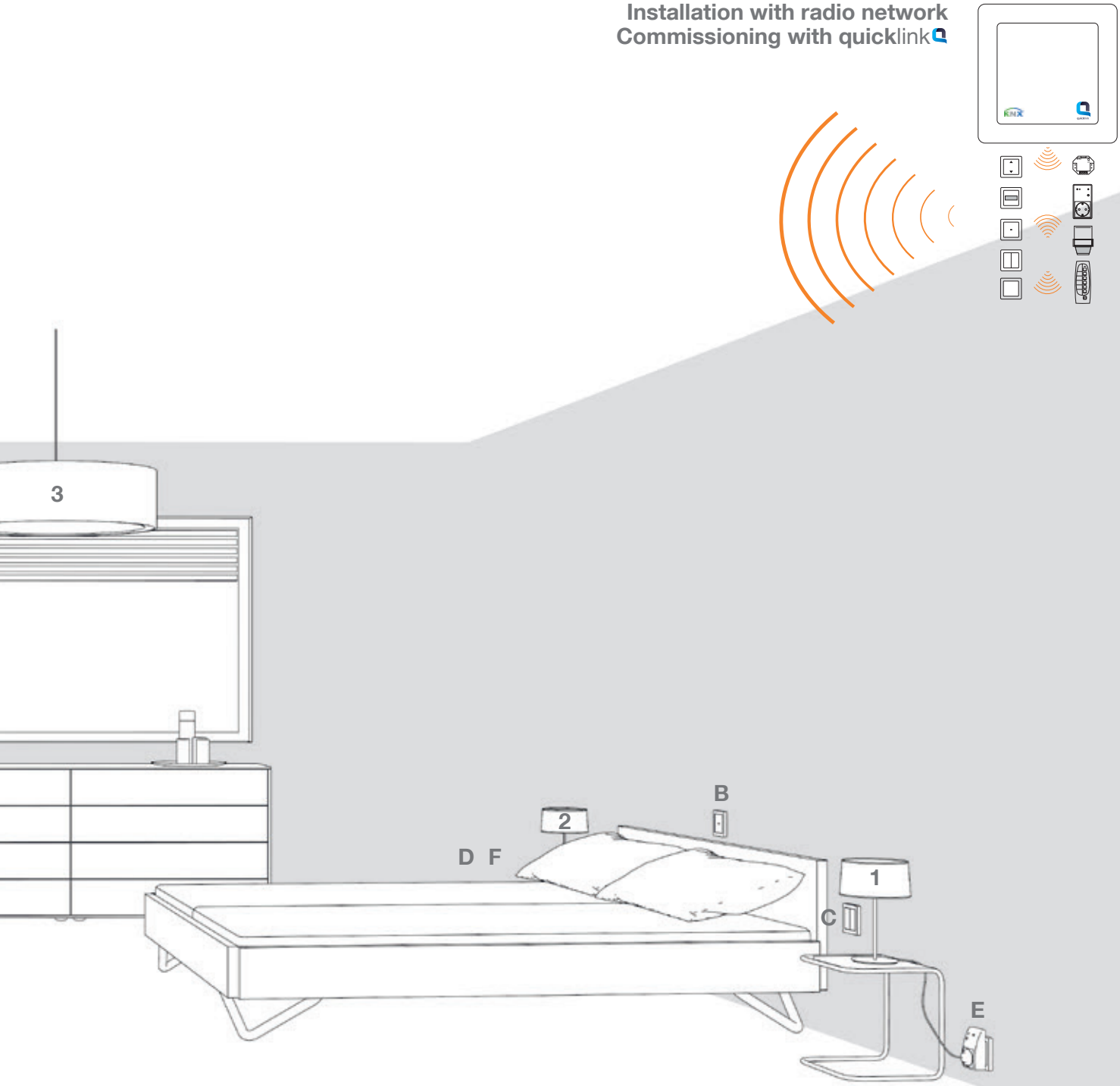
D KNX radio wall transmitter, 2gang



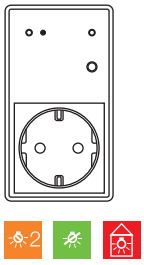
E KNX radio adapter plug



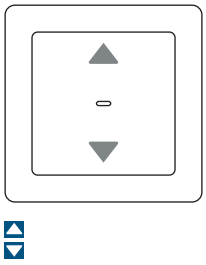
Installation with radio network
Commissioning with quicklink



F KNX radio adapter plug



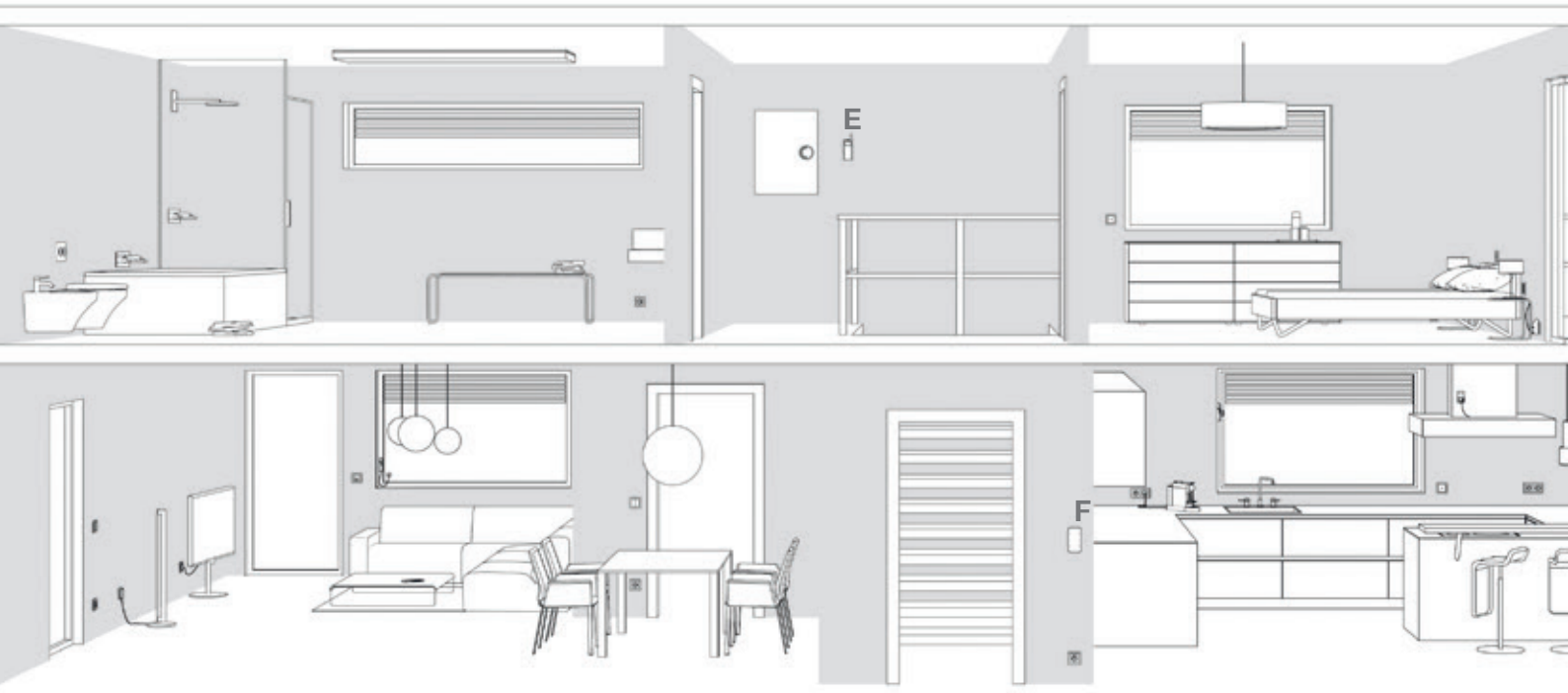
G KNX radio blind button on blind insert comfort



Transmit	Receive	Functional description
3	3	Ceiling lamp: Switch on/off and dim brighter/ darker
1	1	Bedside lamp 1: Switch on/off
2	2	Bedside lamp 2: Switch on/off
		Blind: Move UP / Move DOWN
		Central function: Switch all lamps on/off
		Central function: Panic switch for all lamp in the building: Switch on/off

It's this simple:
KNX extension

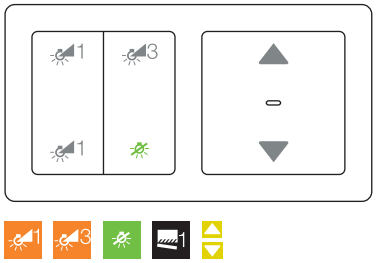
Even with existing KNX systems: Hager KNX radio provides quick, cost effective comfort updates without any extra construction work. If, for example, a summerhouse is built on an existing property, then you can simply equip the new premises with Hager KNX radio devices. A surface-mounted KNX radio/TP gateway transmits its signals in both directions and without faults to the KNX bus, turning existing and extended installations into a continuous system. The lighting can be controlled using a touch sensor from the main building, and even complex scenes can be configured. And you can do all that without digging any trenches or routing cables. That saves time and money.



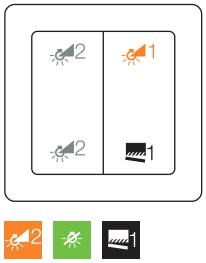
Example house with wired KNX system, commissioning via ETS

A KNX radio button, 2gang on universal touch dimmer, 2gang

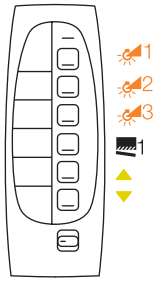
KNX radio blind button on blind insert comfort



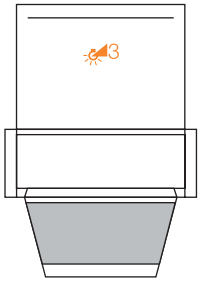
B KNX radio button, 4gang on universal touch dimmer, 1gang



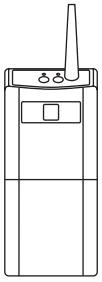
C KNX radio hand-held transmitter



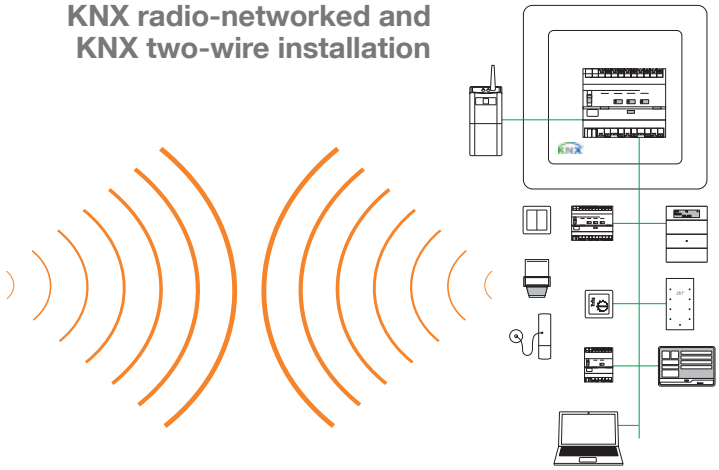
D KNX radio motion detector

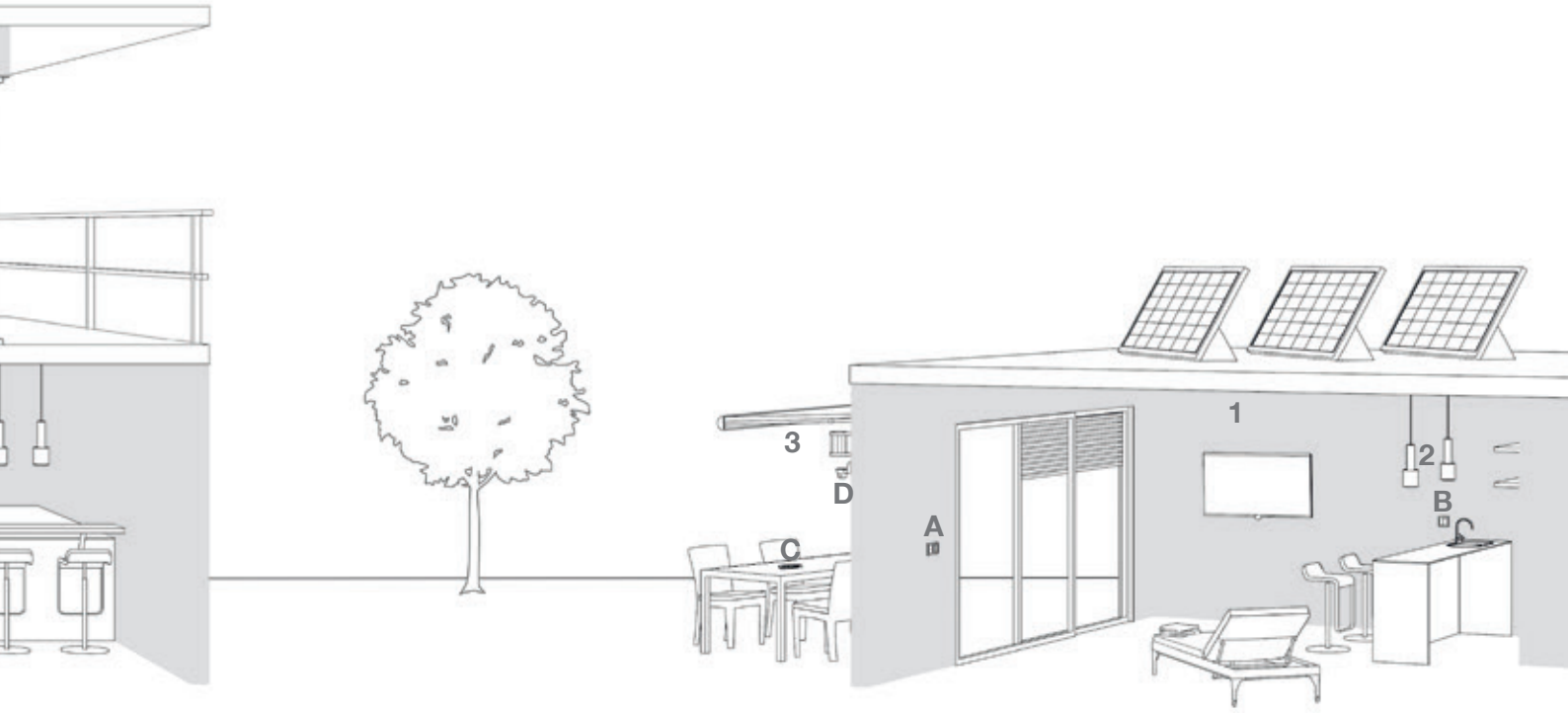


E KNX radio/TP gateway, surface-mounted



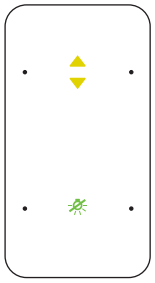
KNX radio-networked and KNX two-wire installation





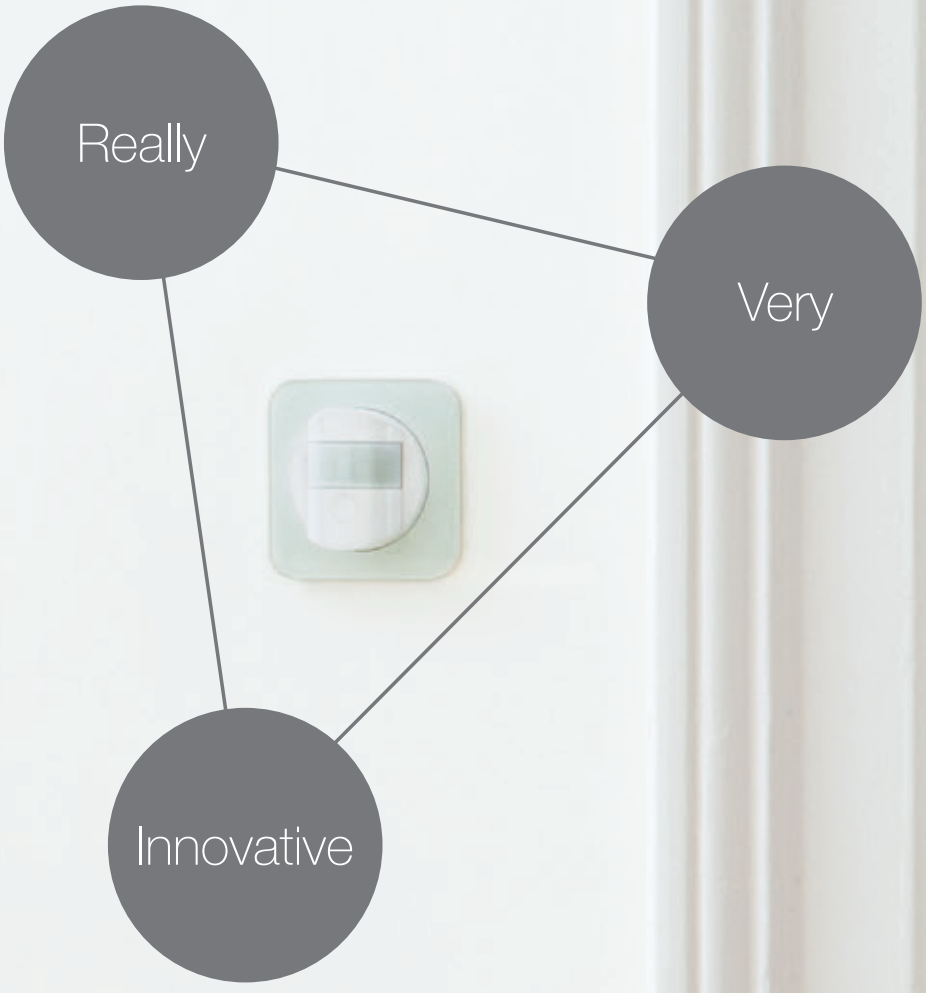
Summerhouse built at a later time, with energy independence through solar modules, connected with the main building via KNX radio **quick**link

F Touch sensor, 2gang comfort



Transmit	Receive	Functional description
1	1	Room lighting: Switch on/off and dim brighter/darker
2	2	Counter lighting: Switch on/off and dim brighter/darker
3	3	Outdoor lighting: Switch on/off and dimmer brighter/darker
		Awning: Move up/down
		Central function: All lights: Switch on/off
1	1	Scene 1 (Party): Switch on room lighting at 35 % and counter lighting 50 %

Catalogue
excerpt




GAIET

Application modules conventional

Button 1gang

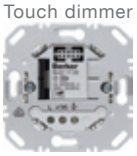
Button 2gang


Motion detector 1.1/2.2 m


IR motion detector comfort 1.1/2.2 m


Blind button


Blind-time switch

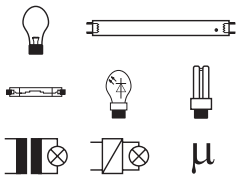
Inserts	Order no.	8514 11 xx	8514 21 xx	8534 11 xx 8534 21 xx	8534 12 xx 8534 22 xx	8524 11 xx	8574 11 xx
Universal switch insert, 1gang 	8512 11 00	■		■	■		
Relay insert 	8512 12 00	■		■	■		
Touch dimmer (R,L) 	8542 11 00	■		■	■		
Universal touch dimmer 1gang 	8542 12 00	■		■	■		
Universal switch insert, 2gang 	8512 22 00		■				
Universal touch dimmer 2gang 	8542 21 00		■				
Blind insert comfort 	8522 11 00					■	■
Power supply for radio application module 	8502 01 00						
Extension unit for motion detector 	8532 01 00			■	■		

Application modules KNX radio

	KNX radio button 1gang	KNX radio button 2gang	KNX radio button 4gang	 KNX radio motion detector comfort 1.1/2.2 m	 KNX radio timer	 KNX radio blind button	 KNX radio blind time switch
	8514 51 xx	8514 61 xx	8564 81 xx	8534 51 xx 8534 61 xx	8574 52 xx	8524 51 xx	8574 51 xx
	■		■	■			
	■		■	■	■		
	■		■	■			
	■		■	■			
		■	■				
		■	■				
						■	■
	■	■	■	■	■	■	■

Light control

Switch inserts



Relay insert

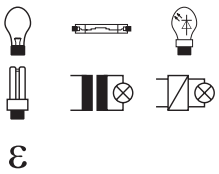
Operating voltage	230 V~
Frequency	50/60 Hz
Power consumption (standby)	< 0.3 W
230 V incandescent lamps and halogen lamps	2300 W
230 V retrofit LED lamps	440 W
Dimmable energy-saving lamps	440 W
Fluorescent lamps:	
- uncompensated	1100 VA
- parallel compensated	1000 W /130 µF
- in Duo circuit	1000 W
- with electronical ballast (EB)	1000 W
Compact fluorescent lamps with electronic ballast	22 x 20 W
Dimmable conventional transformers	1500 VA
Electronic transformers and dual-mode transformers	1500 W
Minimum contact load	≈ 15 W
Operating temperature	-5 ... +45 °C
Number of substations	unlimited
Cable length, extensions	max. 50 m
Load cable length	max. 100 m
Screw terminals	max. 2 x 1,5/1 x 2,5 mm²
Housing installation depth	22 mm
Claw guidance installation depth	32 mm

- low intrinsic energy requirement
- also usable as push-button relay switch
- with extension unit input for push-button (NO contact), single-surface operation and motion detector extension unit
- no conductive connection between supporting ring and spreading claws
- with screw terminals

Neutral conductor necessary!

Comprehensive transmission and reception functions, in conjunction with a KNX radio application module.

Design	Order no.	PU
Relay insert	**8512 12 00**	1



Switch insert 1gang

Operating voltage	230 V~
Frequency	50/60 Hz
Power consumption (standby)	< 0.3 W
230 V incandescent lamps and halogen lamps	25 ... 400 W
Dimmable 230 V retrofit LED lamps	5 ... 70 W
Dimmable energy-saving lamps	13 ... 80 W
Dimmable conventional transformers	25 ... 400 VA
Electronic transformers and dual-mode transformers	25 ... 400 W
Operating temperature	-5 ... +45 °C
Number of substations	unlimited
Cable length, extensions	max. 50 m
Load cable length	max. 100 m
Screw terminals	max. 2 x 1,5/1 x 2,5 mm²
Insertion depth	32 mm

- low intrinsic energy requirement
- bulb-preserving soft startup
- automatic setting to dimmable loads (autoDetect process)
- short-circuit and overload proof (electronic fuse)
- Optimisation of the dimming performance by fine adjustment of the load type and special adjustment mode
- with extension unit input for push-button (NO contact), single-surface operation and motion detector extension unit
- no conductive connection between supporting ring and spreading claws
- with screw terminals

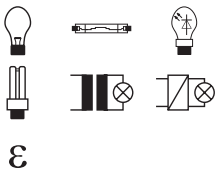
Caution!
Only connect **dimmable** 230 V ESL or retrofit-LED lamps.

Do not connect inductive and capacitive loads jointly.

Comprehensive transmission and reception functions, in conjunction with a KNX radio application module.

Only suitable for operation with dimmable loads!

Design	Order no.	PU
Switch insert 1gang	**8512 11 00**	1



Switch insert 2gang

Operating voltage	230 V~
Frequency	50/60 Hz
Power consumption (standby)	< 1 W
230 V incandescent lamps and halogen lamps	per channel 35 ... 300 W
Dimmable 230 V retrofit LED lamps	per channel 12 ... 54 W
Dimmable energy-saving lamps	per channel 15 ... 54 W
Dimmable conventional transformers	per channel 35 ... 300 VA
Electronic transformers and dual-mode transformers	per channel 35 ... 300 W
Operating temperature	-5 ... +45 °C
Number of substations	unlimited
Cable length, extensions	max. per channel 50 m
Load cable length	max. 100 m
Screw terminals	max. 2 x 1,5/1 x 2,5 mm²
Insertion depth	32 mm

- low intrinsic energy requirement
- bulb-preserving soft startup
- automatic setting to dimmable loads (autoDetect process)
- short-circuit and overload proof (electronic fuse)
- Optimisation of the dimming performance by fine adjustment of the load type and special adjustment mode
- with 2 extension unit inputs for push-button (NO contact), single-surface operation
- no conductive connection between supporting ring and spreading claws
- with screw terminals

Caution!
Only connect **dimmable** 230 V ESL or retrofit-LED lamps.

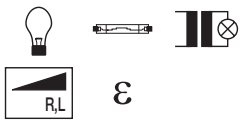
Do not connect inductive and capacitive loads jointly.

Comprehensive transmission and reception functions, in conjunction with a KNX radio application module.

Only suitable for operation with dimmable loads!

Design	Order no.	PU
Switch insert 2gang	**8512 22 00**	1

Dimmer inserts



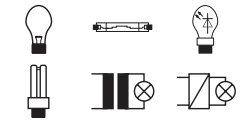
Touch dimmer (R, L)

Operating voltage	230 V~
Frequency	50/60 Hz
Power consumption (standby)	< 0.3 W
230 V incandescent lamps and halogen lamps	25 ... 400 W
Dimmable conventional transformers	25 ... 400 VA
Number of universal capacity enhancers	max. 2
Operating temperature	-5 ... +45 °C
Number of substations	unlimited
Cable length, extensions	max. 50 m
Load cable length	max. 100 m
Screw terminals	max. 2 x 1,5/1 x 2,5 mm²
Insertion depth	32 mm

- low intrinsic energy requirement
- switch-on brightness level can be stored safe after power failure
- bulb-preserving soft startup
- phase cut-on
- short-circuit and overload proof (electronic fuse)
- with extension unit input for push-button (NO contact) with single-surface operation and motion detector extension unit
- expandable with universal power boosters RMD Plus
- no conductive connection between supporting ring and spreading claws
- with screw terminals

Comprehensive transmission and reception functions, in conjunction with a KNX radio application module.

Design	Order no.	PU
Touch dimmer (R, L)	**8542 11 00**	1



Universal touch dimmer 1gang

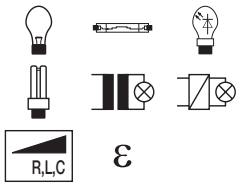
Operating voltage	230 V~
Frequency	50/60 Hz
Power consumption (standby)	< 0.3 W
230 V incandescent lamps and halogen lamps	25 ... 400 W
Dimmable 230 V retrofit LED lamps	5 ... 70 W
Dimmable energy-saving lamps	13 ... 80 W
Dimmable conventional transformers	25 ... 400 VA
Electronic transformers and dual-mode transformers	25 ... 400 W
Operating temperature	-5 ... +45 °C
Number of substations	unlimited
Cable length, extensions	max. 50 m
Load cable length	max. 100 m
Screw terminals	max. 2 x 1,5/1 x 2,5 mm²
Insertion depth	32 mm

- low intrinsic energy requirement
- bulb-preserving soft startup
- automatic setting to dimmable loads (autoDetect process)
- phase cut-on or cut-off according to load type, self-learning
- short-circuit and overload proof (electronic fuse)
- Optimisation of the dimming performance by fine adjustment of the load type and special adjustment mode
- with extension unit input for push-button (NO contact) with single-surface operation and motion detector extension unit
- no conductive connection between supporting ring and spreading claws
- with screw terminals

Do not connect inductive and capacitive loads jointly.

Comprehensive transmission and reception functions, in conjunction with a KNX radio application module.

Design	Order no.	PU
Universal touch dimmer 1gang	**8542 12 00**	1



Universal touch dimmer 2gang

Operating voltage	230 V~
Frequency	50/60 Hz
Power consumption, standby (Channel 1/Channel 2)	0,3/0,7 W
230 V incandescent lamps and halogen lamps	per channel 35 ... 300 W
Dimmable 230 V retrofit LED lamps	per channel 12 ... 40 W
Dimmable energy-saving lamps	per channel 15 ... 54 W
Dimmable conventional transformers	per channel 35 ... 300 VA
Electronic transformers and dual-mode transformers	per channel 35 ... 300 W
Operating temperature	-5 ... +45 °C
Number of substations	unlimited
Cable length, extensions	max. per channel 50 m
Load cable length	max. 100 m
Screw terminals	max. 2 x 1,5/1 x 2,5 mm²
Insertion depth	32 mm

- low intrinsic energy requirement
- bulb-preserving soft startup
- automatic setting to dimmable loads (autoDetect process)
- phase cut-on or cut-off according to load type, self-learning
- short-circuit and overload proof (electronic fuse)
- Optimisation of the dimming performance by fine adjustment of the load type and special adjustment mode
- with 2 extension unit inputs for push-button (NO contact), single-surface operation
- no conductive connection between supporting ring and spreading claws
- with screw terminals

Do not connect inductive and capacitive loads jointly per series.

Comprehensive transmission and reception functions, in conjunction with a KNX radio application module.

Design	Order no.	PU
Universal touch dimmer 2gang	**8542 21 00**	1

Buttons for switches/dimmers

Button 1gang

Operating voltage	via insert
Operating temperature	-5 ... +45 °C

- low intrinsic energy requirement
- with 2-push-buttons operation concept
- switch-on brightness level for use on dimmer insert, power failure proof, storable
- with anti-dismantling protection

Suitable for	Order no.	Page
Relay insert	8512 12 00	36
Switch insert 1gang	8512 11 00	37
Touch dimmer (R, L)	8542 11 00	38
Universal touch dimmer 1gang	8542 12 00	38

Design	Order no.	PU
Berker S.1/B.3/B.7		
white glossy	**8514 11 82**	1
polar white glossy	**8514 11 89**	1
polar white matt	**8514 11 88**	1
anthracite matt, lacquered	**8514 11 85**	1
aluminium matt, lacquered	**8514 11 83**	1

Berker Q.1/Q.3		
polar white velvety	**8514 11 29**	1
anthracite velvety, lacquered	**8514 11 26**	1

Berker K.1/K.5		
polar white glossy	**8514 11 79**	1
anthracite matt, lacquered	**8514 11 75**	1
aluminium, matt, lacquered	**8514 11 77**	1
stainless steel matt, lacquered	**8514 11 73**	1

Berker R.1/R.3		
polar white glossy	**8514 11 39**	1
black glossy	**8514 11 31**	1

Button 2gang

Operating voltage	via insert
Operating temperature	-5 ... +45 °C

- low intrinsic energy requirement
- with 2-push-buttons operation concept per series
- switch-on brightness level for use on dimmer insert, power failure proof, storable
- with anti-dismantling protection

Suitable for	Order no.	Page
Switch insert 2gang	8512 22 00	37
Universal touch dimmer 2gang	8542 21 00	39

Design	Order no.	PU
Berker S.1/B.3/B.7		
white glossy	**8514 21 82**	1
polar white glossy	**8514 21 89**	1
polar white matt	**8514 21 88**	1
anthracite matt, lacquered	**8514 21 85**	1
aluminium matt, lacquered	**8514 21 83**	1

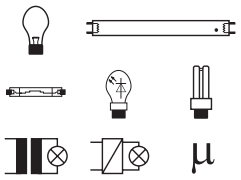
Berker Q.1/Q.3		
polar white velvety	**8514 21 29**	1
anthracite velvety, lacquered	**8514 21 26**	1

Berker K.1/K.5		
polar white glossy	**8514 21 79**	1
anthracite matt, lacquered	**8514 21 75**	1
aluminium, matt, lacquered	**8514 21 77**	1
stainless steel matt, lacquered	**8514 21 73**	1

Berker R.1/R.3		
polar white glossy	**8514 21 39**	1
black glossy	**8514 21 31**	1

Motion detectors

Inserts



Relay insert

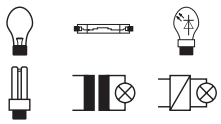
Operating voltage	230 V~
Frequency	50/60 Hz
Power consumption (standby)	< 0.3 W
Minimum contact load	≈ 15 W
230 V incandescent lamps and halogen lamps	2300 W
230 V retrofit LED lamps	440 W
Dimmable energy-saving lamps	440 W
Fluorescent lamps:	
- uncompensated	1100 VA
- parallel compensated	1000 W /130 µF
- with electronical ballast (EB)	1000 W
- in Duo circuit	1000 W
Compact fluorescent lamps with electronic ballast	22 x 20 W
Dimmable conventional transformers	1500 VA
Electronic transformers and dual-mode transformers	1500 W
Operating temperature	-5 ... +45 °C
Number of substations	unlimited
Cable length, extensions	max. 50 m
Load cable length	max. 100 m
Screw terminals	max. 2 x 1,5/1 x 2,5 mm²
Housing installation depth	22 mm
Claw guidance installation depth	32 mm

- low intrinsic energy requirement
- also usable as push-button relay switch
- with extension unit input for push-button (NO contact), single-surface operation and motion detector extension unit
- no conductive connection between supporting ring and spreading claws
- with screw terminals

Neutral conductor necessary!

Comprehensive transmission and reception functions, in conjunction with a KNX radio application module.

Design	Order no.	PU
Relay insert	**8512 12 00**	1



Switch insert 1gang

Operating voltage	230 V~
Frequency	50/60 Hz
Power consumption (standby)	< 0.3 W
230 V incandescent lamps and halogen lamps	25 ... 400 W
Dimmable 230 V retrofit LED lamps	5 ... 70 W
Dimmable energy-saving lamps	13 ... 80 W
Dimmable conventional transformers	25 ... 400 VA
Electronic transformers and dual-mode transformers	25 ... 400 W
Operating temperature	-5 ... +45 °C
Number of substations	unlimited
Cable length, extensions	max. 50 m
Load cable length	max. 100 m
Screw terminals	max. 2 x 1,5/1 x 2,5 mm²
Insertion depth	32 mm

- low intrinsic energy requirement
- bulb-preserving soft startup
- automatic setting to dimmable loads (autoDetect process)
- short-circuit and overload proof (electronic fuse)
- Optimisation of the dimming performance by fine adjustment of the load type and special adjustment mode
- with extension unit input for push-button (NO contact), single-surface operation and motion detector extension unit
- no conductive connection between supporting ring and spreading claws
- with screw terminals

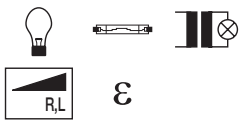
Caution!
Only connect **dimmable** 230 V ESL or retrofit-LED lamps.

Only suitable for operation with dimmable loads!

Do not connect inductive and capacitive loads jointly.

Comprehensive transmission and reception functions, in conjunction with a KNX radio application module.

Design	Order no.	PU
Switch insert 1gang	**8512 11 00**	1



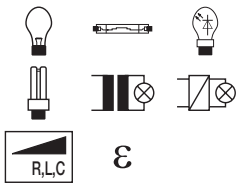
Touch dimmer (R, L)

Operating voltage	230 V~
Frequency	50/60 Hz
Power consumption (standby)	< 0.3 W
230 V incandescent lamps and halogen lamps	25 ... 400 W
Dimmable conventional transformers	25 ... 400 VA
Number of universal capacity enhancers	max. 2
Operating temperature	-5 ... +45 °C
Number of substations	unlimited
Cable length, extensions	max. 50 m
Load cable length	max. 100 m
Screw terminals	max. 2 x 1,5/1 x 2,5 mm²
Insertion depth	32 mm

- low intrinsic energy requirement
- switch-on brightness level can be stored safe after power failure
- bulb-preserving soft startup
- phase cut-on
- short-circuit and overload proof (electronic fuse)
- with extension unit input for push-button (NO contact) with single-surface operation and motion detector extension unit
- expandable with universal power boosters RMD Plus
- no conductive connection between supporting ring and spreading claws
- with screw terminals

Comprehensive transmission and reception functions, in conjunction with a KNX radio application module.

Design	Order no.	PU
Touch dimmer (R, L)	**8542 11 00**	1



Universal touch dimmer 1gang

Operating voltage	230 V~
Frequency	50/60 Hz
Power consumption (standby)	< 0.3 W
230 V incandescent lamps and halogen lamps	25 ... 400 W
Dimmable 230 V retrofit LED lamps	5 ... 70 W
Dimmable energy-saving lamps	13 ... 80 W
Dimmable conventional transformers	25 ... 400 VA
Electronic transformers and dual-mode transformers	25 ... 400 W
Operating temperature	-5 ... +45 °C
Number of substations	unlimited
Cable length, extensions	max. 50 m
Load cable length	max. 100 m
Screw terminals	max. 2 x 1,5/1 x 2,5 mm²
Insertion depth	32 mm

- low intrinsic energy requirement
- bulb-preserving soft startup
- automatic setting to dimmable loads (autoDetect process)
- phase cut-on or cut-off according to load type, self-learning
- short-circuit and overload proof (electronic fuse)
- Optimisation of the dimming performance by fine adjustment of the load type and special adjustment mode
- with extension unit input for push-button (NO contact) with single-surface operation and motion detector extension unit
- no conductive connection between supporting ring and spreading claws
- with screw terminals

Do not connect inductive and capacitive loads jointly.

Comprehensive transmission and reception functions, in conjunction with a KNX radio application module.

Design	Order no.	PU
Universal touch dimmer 1gang	**8542 12 00**	1

Extension unit for motion detector

Operating voltage	230 V~
Frequency	50/60 Hz
Power consumption (standby)	0.3 W
Operating temperature	-5 ... +45 °C
Number of motion detector extension units	unlimited
Cable length, extensions	max. 50 m
Screw terminals	max. 2 x 1,5/1 x 2,5 mm²
Insertion depth	32 mm

- low intrinsic energy requirement
- short-circuit and overload proof (electronic fuse)
- no conductive connection between supporting ring and spreading claws
- with screw terminals

Design	Order no.	PU
Extension unit for motion detector	**8532 01 00**	1

Motion detector covers

IR motion detector comfort 1.1 m

Delay time, adjustable	≈ 10 s ... 30 min
Short time mode	200 ms
immunity time	≈ 10 s
Nominal mounting height	1.1 m
Range, frontal	≈ 12 m
Range, side	each ≈ 8 m
Detection field, rectangular shaped	≈ 12 x 16 m
Response sensitivity, settable	≈ 10 ... 100 %
Response brightness, adjustable	≈ 5 ... 1000 lx, ∞ lx (day)
Operating temperature	-5 ... +45 °C
Assembling height	34 mm

Continuous direct sunlight penetrating the upward-pointing detection plane can result in failure of the motion detector.
Only suitable for indoor areas!

- low intrinsic energy requirement
- with memory function for presence simulation
- teach function for response brightness via button
- with keylock
- party function for switching on for 2 hours
- LED application module/insert compatibility display
- with operation and status LED, red/green/orange
- with button for on/off/automatic
- µ-processor controlled mode of operation
- step operation with immunity time (e.g. for stair light/ impact current circuits)
- with anti-dismantling protection

Suitable for Inserts — **Order no.** — **Page** page 41

Design	Order no.	PU
Berker S.1/B.3/B.7		
white glossy	**8534 12 82**	1
polar white glossy	**8534 12 89**	1
polar white matt	**8534 12 88**	1
anthracite matt	**8534 12 85**	1
aluminium, matt, lacquered	**8534 12 83**	1
Berker Q.1/Q.3		
polar white velvety	**8534 12 29**	1
anthracite velvety, lacquered	**8534 12 26**	1
Berker K.1/K.5		
polar white glossy	**8534 12 79**	1
anthracite matt, lacquered	**8534 12 75**	1
aluminium, matt, lacquered	**8534 12 77**	1
stainless steel matt, lacquered	**8534 12 73**	1
Berker R.1/R.3		
polar white glossy	**8534 12 39**	1
black glossy	**8534 12 31**	1

IR motion detector comfort 2.2 m

Delay time, adjustable	≈ 10 s ... 30 min
Short time mode	200 ms
immunity time	≈ 10 s
Nominal mounting height	2.2 m
Range, frontal	≈ 8 m
Range, side	each ≈ 6 m
Detection field, rectangular shaped	≈ 8 x 12 m
Response sensitivity, settable	≈ 10 ... 100 %
Response brightness, adjustable	≈ 5 ... 1000 lx, ∞ lx (day)
Operating temperature	-5 ... +45 °C
Assembling height	34 mm

- low intrinsic energy requirement
- with memory function for presence simulation
- teach function for response brightness via button
- with keylock
- party function for switching on for 2 hours
- LED application module/insert compatibility display
- with operation and status LED, red/green/orange
- with button for on/off/automatic
- µ-processor controlled mode of operation
- step operation with immunity time (e.g. for stair light/ impact current circuits)
- with anti-dismantling protection

Suitable for Inserts — **Order no.** — **Page** page 41

Design	Order no.	PU
Berker S.1/B.3/B.7		
white glossy	**8534 22 82**	1
polar white glossy	**8534 22 89**	1
polar white matt	**8534 22 88**	1
anthracite matt	**8534 22 85**	1
aluminium, matt, lacquered	**8534 22 83**	1
Berker Q.1/Q.3		
polar white velvety	**8534 22 29**	1
anthracite velvety, lacquered	**8534 22 26**	1
Berker K.1/K.5		
polar white glossy	**8534 22 79**	1
anthracite matt, lacquered	**8534 22 75**	1
aluminium, matt, lacquered	**8534 22 77**	1
stainless steel matt, lacquered	**8534 22 73**	1
Berker R.1/R.3		
polar white glossy	**8534 22 39**	1
black glossy	**8534 22 31**	1

Motion detector 1.1 m

Delay time	≈ 180 s
Nominal mounting height	1.1 m
Range, frontal	≈ 12 m
Range, side	each ≈ 8 m
Detection field, rectangular shaped	≈ 12 x 16 m
Response sensitivity, settable	≈ 10 ... 100 %
Response brightness, adjustable	≈ 5 ... 1000 lx, ∞ lx (day)
Operating temperature	-5 ... +45 °C
Assembling height	34 mm

- low intrinsic energy requirement
- with memory function for presence simulation
- teach function for response brightness via button
- with keylock
- party function for switching on for 2 hours
- LED application module/insert compatibility display
- with operation and status LED, red/green/orange
- with button for on/off/automatic
- µ-processor controlled mode of operation
- with anti-dismantling protection

Suitable for Inserts — **Order no.** — **Page** page 41

Continuous direct sunlight penetrating the upward-pointing detection plane can result in failure of the motion detector.
Only suitable for indoor areas!

Design	Order no.	PU
Berker S.1/B.3/B.7		
white glossy	**8534 11 82**	1
polar white glossy	**8534 11 89**	1
polar white matt	**8534 11 88**	1
anthracite matt	**8534 11 85**	1
aluminium, matt, lacquered	**8534 11 83**	1

Berker Q.1/Q.3

polar white velvety	**8534 11 29**	1
anthracite velvety, lacquered	**8534 11 26**	1

Berker K.1/K.5

polar white glossy	**8534 11 79**	1
anthracite matt, lacquered	**8534 11 75**	1
aluminium, matt, lacquered	**8534 11 77**	1
stainless steel matt, lacquered	**8534 11 73**	1

Berker R.1/R.3

polar white glossy	**8534 11 39**	1
black glossy	**8534 11 31**	1

Motion detector 2.2 m

Delay time	≈ 180 s
Nominal mounting height	2.2 m
Range, frontal	≈ 8 m
Range, side	each ≈ 6 m
Detection field, rectangular shaped	≈ 8 x 12 m
Response sensitivity, settable	≈ 10 ... 100 %
Response brightness, adjustable	≈ 5 ... 1000 lx, ∞ lx (day)
Operating temperature	-5 ... +45 °C
Assembling height	34 mm

- low intrinsic energy requirement
- with memory function for presence simulation
- teach function for response brightness via button
- with keylock
- party function for switching on for 2 hours
- LED application module/insert compatibility display
- with operation and status LED, red/green/orange
- with button for on/off/automatic
- µ-processor controlled mode of operation
- with anti-dismantling protection

Suitable for Inserts	**Order no.**	**Page** page 41

Design	Order no.	PU
Berker S.1/B.3/B.7		
white glossy	**8534 21 82**	1
polar white glossy	**8534 21 89**	1
polar white matt	**8534 21 88**	1
anthracite matt	**8534 21 85**	1
aluminium, matt, lacquered	**8534 21 83**	1

Berker Q.1/Q.3

polar white velvety	**8534 21 29**	1
anthracite velvety, lacquered	**8534 21 26**	1

Berker K.1/K.5

polar white glossy	**8534 21 79**	1
anthracite matt, lacquered	**8534 21 75**	1
aluminium, matt, lacquered	**8534 21 77**	1
stainless steel matt, lacquered	**8534 21 73**	1

Berker R.1/R.3

polar white glossy	**8534 21 39**	1
black glossy	**8534 21 31**	1

Blind control

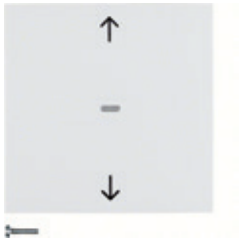
Blind insert comfort

Operating voltage	230 V~
Frequency	50/60 Hz
Switching current (ohmic/ inductive)	max. 5 A
Power consumption (standby)	< 0.1 W
Change-over time for change of direction	< 0.6 s
Operating temperature	-5 ... +45 °C
Number of substations	unlimited
Cable length, extensions	max. 50 m
Load cable length	max. 100 m
Screw terminals	max. 2 x 1,5/1 x 2,5 mm²
Housing installation depth	22 mm
Claw guidance installation depth	32 mm
Switching current at cos = 0.6	max. 3 A

- low intrinsic energy requirement
- with 2 mechanically and electrically mutually-locked relay contacts
- with 230 V extension unit inputs for up and down
- for single, group and master controls
- no conductive connection between supporting ring and spreading claws
- circuiting of extension units push-buttons for blinds, blind inserts, key push-buttons for blinds
- with screw terminals

Design	Order no.	PU
Blind insert comfort	**8522 11 00**	1

Blind covers



Blind button

Venetian blind movement time	2 min
Delay time, adjustable	0 s ... 500 s
Minimum slat adjustment time	≈ 150 ms
Change-over time for change of direction	< 0.6 s
Operating temperature	-5 ... +45 °C

- low intrinsic energy requirement
- memory function for automatic execution of learned up and down times with position
- party function, no execution of automatic, radio and extension unit commands (lock-out protection)
- LED application module/insert compatibility display
- with indicator LED for lock-out protection
- with status LED for memory and party function, red/ orange
- with anti-dismantling protection
- with imprinted symbol arrows

Suitable for	Order no.	Page
Blind insert comfort	8522 11 00	47

Design	Order no.	PU
Berker S.1/B.3/B.7		
white glossy	**8524 11 82**	1
polar white glossy	**8524 11 89**	1
polar white matt	**8524 11 88**	1
anthracite matt	**8524 11 85**	1
aluminium, matt, lacquered	**8524 11 83**	1
Berker Q.1/Q.3		
polar white velvety	**8524 11 29**	1
anthracite velvety, lacquered	**8524 11 26**	1
Berker K.1/K.5		
polar white glossy	**8524 11 79**	1
anthracite matt, lacquered	**8524 11 75**	1
aluminium, matt, lacquered	**8524 11 77**	1
stainless steel matt, lacquered	**8524 11 73**	1
Berker R.1/R.3		
polar white glossy [1)]	**8524 11 39**	1
black glossy [1)]	**8524 11 31**	1

[1)] no dismantling protection possible

Blind time switch

- Display

Running time	2 min
Astronomic time shift	± 2 h
Random number generator	± 15 min
Power reserve	≈ 24 h
Number of operation times for up/down	20
Minimum slat adjustment time	≈ 150 ms
Change-over time for change of direction	< 0.6 s
Operating temperature	-5 ... +45 °C

Control using device buttons and programmed switching times.

- 2 independent preset programme memories, individually adaptable
- low intrinsic energy requirement
- astro programme for sunrise/sundown switching with city/country or co-ordinate input, individually adaptable
- holiday programme for random variation of the operation times in automatic operation
- with keylock
- party function, no execution of automatic, radio and extension unit commands (lock-out protection)
- reset function (to factory setting)
- with automatic summer-/winter time switching (can be switched off)
- indication of the application module/insert compatibility in the display
- LC display illuminated during operation
- LC display contrast is adjustable
- with anti-dismantling protection

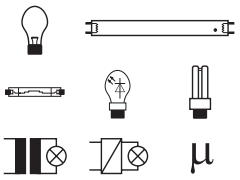
Suitable for	Order no.	Page
Blind insert comfort	8522 11 00	47

Design	Order no.	PU
Berker S.1/B.3/B.7		
white glossy	**8574 11 82**	1
polar white glossy	**8574 11 89**	1
aluminium, matt, lacquered	**8574 11 83**	1
anthracite matt	**8574 11 85**	1
polar white matt	**8574 11 88**	1
Berker Q.1/Q.3		
polar white velvety	**8574 11 29**	1
anthracite velvety, lacquered	**8574 11 26**	1
Berker K.1/K.5		
polar white glossy	**8574 11 79**	1
anthracite matt, lacquered	**8574 11 75**	1
aluminium, matt, lacquered	**8574 11 77**	1
stainless steel matt, lacquered	**8574 11 73**	1
Berker R.1/R.3		
polar white glossy [1)]	**8574 11 39**	1
black glossy [1)]	**8574 11 31**	1

[1)] no dismantling protection possible

Light control

Switch inserts



Relay insert

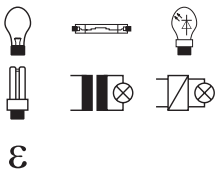
Operating voltage	230 V~
Frequency	50/60 Hz
Power consumption (standby)	< 0.3 W
230 V incandescent lamps and halogen lamps	2300 W
230 V retrofit LED lamps	440 W
Dimmable energy-saving lamps	440 W
Fluorescent lamps:	
- uncompensated	1100 VA
- parallel compensated	1000 W /130 µF
- in Duo circuit	1000 W
- with electronical ballast (EB)	1000 W
Compact fluorescent lamps with electronic ballast	22 x 20 W
Dimmable conventional transformers	1500 VA
Electronic transformers and dual-mode transformers	1500 W
Minimum contact load	≈ 15 W
Operating temperature	-5 ... +45 °C
Number of substations	unlimited
Cable length, extensions	max. 50 m
Load cable length	max. 100 m
Screw terminals	max. 2 x 1,5/1 x 2,5 mm²
Housing installation depth	22 mm
Claw guidance installation depth	32 mm

- low intrinsic energy requirement
- also usable as push-button relay switch
- with extension unit input for push-button (NO contact), single-surface operation and motion detector extension unit
- no conductive connection between supporting ring and spreading claws
- with screw terminals

Neutral conductor necessary!

Comprehensive transmission and reception functions, in conjunction with a KNX radio application module.

Design	Order no.	PU
Relay insert	**8512 12 00**	1



Switch insert 1gang

Operating voltage	230 V~
Frequency	50/60 Hz
Power consumption (standby)	< 0.3 W
230 V incandescent lamps and halogen lamps	25 ... 400 W
Dimmable 230 V retrofit LED lamps	5 ... 70 W
Dimmable energy-saving lamps	13 ... 80 W
Dimmable conventional transformers	25 ... 400 VA
Electronic transformers and dual-mode transformers	25 ... 400 W
Operating temperature	-5 ... +45 °C
Number of substations	unlimited
Cable length, extensions	max. 50 m
Load cable length	max. 100 m
Screw terminals	max. 2 x 1,5/1 x 2,5 mm²
Insertion depth	32 mm

- low intrinsic energy requirement
- bulb-preserving soft startup
- automatic setting to dimmable loads (autoDetect process)
- short-circuit and overload proof (electronic fuse)
- Optimisation of the dimming performance by fine adjustment of the load type and special adjustment mode
- with extension unit input for push-button (NO contact), single-surface operation and motion detector extension unit
- no conductive connection between supporting ring and spreading claws
- with screw terminals

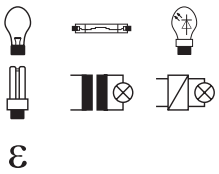
Caution!
Only connect **dimmable** 230 V ESL or retrofit-LED lamps.

Only suitable for operation with dimmable loads!

Do not connect inductive and capacitive loads jointly.

Comprehensive transmission and reception functions, in conjunction with a KNX radio application module.

Design	Order no.	PU
Switch insert 1gang	**8512 11 00**	1



Switch insert 2gang

Operating voltage	230 V~
Frequency	50/60 Hz
Power consumption (standby)	< 1 W
230 V incandescent lamps and halogen lamps	per channel 35 ... 300 W
Dimmable 230 V retrofit LED lamps	per channel 12 ... 54 W
Dimmable energy-saving lamps	per channel 15 ... 54 W
Dimmable conventional transformers	per channel 35 ... 300 VA
Electronic transformers and dual-mode transformers	per channel 35 ... 300 W
Operating temperature	-5 ... +45 °C
Number of substations	unlimited
Cable length, extensions	max. per channel 50 m
Load cable length	max. 100 m
Screw terminals	max. 2 x 1,5/1 x 2,5 mm²
Insertion depth	32 mm

- low intrinsic energy requirement
- bulb-preserving soft startup
- automatic setting to dimmable loads (autoDetect process)
- short-circuit and overload proof (electronic fuse)
- Optimisation of the dimming performance by fine adjustment of the load type and special adjustment mode
- with 2 extension unit inputs for push-button (NO contact), single-surface operation
- no conductive connection between supporting ring and spreading claws
- with screw terminals

Caution!
Only connect **dimmable** 230 V ESL or retrofit-LED lamps.

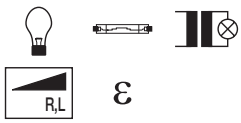
Only suitable for operation with dimmable loads!

Do not connect inductive and capacitive loads jointly.

Comprehensive transmission and reception functions, in conjunction with a KNX radio application module.

Design	Order no.	PU
Switch insert 2gang	**8512 22 00**	1

Dimmer inserts



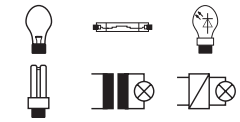
Touch dimmer (R, L)

Operating voltage	230 V~
Frequency	50/60 Hz
Power consumption (standby)	< 0.3 W
230 V incandescent lamps and halogen lamps	25 ... 400 W
Dimmable conventional transformers	25 ... 400 VA
Number of universal capacity enhancers	max. 2
Operating temperature	-5 ... +45 °C
Number of substations	unlimited
Cable length, extensions	max. 50 m
Load cable length	max. 100 m
Screw terminals	max. 2 x 1,5/1 x 2,5 mm²
Insertion depth	32 mm

- low intrinsic energy requirement
- switch-on brightness level can be stored safe after power failure
- bulb-preserving soft startup
- phase cut-on
- short-circuit and overload proof (electronic fuse)
- with extension unit input for push-button (NO contact) with single-surface operation and motion detector extension unit
- expandable with universal power boosters RMD Plus
- no conductive connection between supporting ring and spreading claws
- with screw terminals

Comprehensive transmission and reception functions, in conjunction with a KNX radio application module.

Design	Order no.	PU
Touch dimmer (R, L)	**8542 11 00**	1



Universal touch dimmer 1gang

Operating voltage	230 V~
Frequency	50/60 Hz
Power consumption (standby)	< 0.3 W
230 V incandescent lamps and halogen lamps	25 ... 400 W
Dimmable 230 V retrofit LED lamps	5 ... 70 W
Dimmable energy-saving lamps	13 ... 80 W
Dimmable conventional transformers	25 ... 400 VA
Electronic transformers and dual-mode transformers	25 ... 400 W
Operating temperature	-5 ... +45 °C
Number of substations	unlimited
Cable length, extensions	max. 50 m
Load cable length	max. 100 m
Screw terminals	max. 2 x 1,5/1 x 2,5 mm²
Insertion depth	32 mm

- low intrinsic energy requirement
- bulb-preserving soft startup
- automatic setting to dimmable loads (autoDetect process)
- phase cut-on or cut-off according to load type, self-learning
- short-circuit and overload proof (electronic fuse)
- Optimisation of the dimming performance by fine adjustment of the load type and special adjustment mode
- with extension unit input for push-button (NO contact) with single-surface operation and motion detector extension unit
- no conductive connection between supporting ring and spreading claws
- with screw terminals

Do not connect inductive and capacitive loads jointly.

Comprehensive transmission and reception functions, in conjunction with a KNX radio application module.

Design	Order no.	PU
Universal touch dimmer 1gang	**8542 12 00**	1

Universal touch dimmer 2gang

Operating voltage	230 V~
Frequency	50/60 Hz
Power consumption, standby (Channel 1/Channel 2)	0,3/0,7 W
230 V incandescent lamps and halogen lamps	per channel 35 ... 300 W
Dimmable 230 V retrofit LED lamps	per channel 12 ... 40 W
Dimmable energy-saving lamps	per channel 15 ... 54 W
Dimmable conventional transformers	per channel 35 ... 300 VA
Electronic transformers and dual-mode transformers	per channel 35 ... 300 W
Operating temperature	-5 ... +45 °C
Number of substations	unlimited
Cable length, extensions	max. per channel 50 m
Load cable length	max. 100 m
Screw terminals	max. 2 x 1,5/1 x 2,5 mm²
Insertion depth	32 mm

Do not connect inductive and capacitive loads jointly per series.

Comprehensive transmission and reception functions, in conjunction with a KNX radio application module.

- low intrinsic energy requirement
- bulb-preserving soft startup
- automatic setting to dimmable loads (autoDetect process)
- phase cut-on or cut-off according to load type, self-learning
- short-circuit and overload proof (electronic fuse)
- Optimisation of the dimming performance by fine adjustment of the load type and special adjustment mode
- with 2 extension unit inputs for push-button (NO contact), single-surface operation
- no conductive connection between supporting ring and spreading claws
- with screw terminals

Design	Order no.	PU
Universal touch dimmer 2gang	**8542 21 00**	1

KNX radio buttons for switches/dimmers

KNX radio button 1gang quicklink

Radio transmission/reception frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of radio channels	2
Number of quicklink links	max. 20 transmitter/receiver
Radio transmission power	< 10 mW
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Operating temperature	-5 ... +45 °C

For manual actuation or remote control via KNX radio.

- low intrinsic energy requirement
- configurable transmission and/or reception behaviour
- reset function (to factory setting)
- quicklink functions: switching, dimming, blind, 2 scenes, time switching, NO contact push-button, memory
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: +6 scenes, 1 button control up/down, operating mode on/off, dimming value, brightness display, push-button, status display, forced control
- LED application module/insert compatibility display
- with configuration and function LEDs
- with configuration and function button
- operating areas configurable as one or two-area operation
- switch-on brightness level for each operating area on configuration with dimmer insert, power failure proof, storable
- scene saving lockable
- with anti-dismantling protection
- top and bottom operating area on 1gang switching/dimming inserts and network insert are freely configurable
- toolless quicklink configuration using buttons and LED display

Suitable for	Order no.	Page
Relay insert	8512 12 00	36
Switch insert 1gang	8512 11 00	37
Touch dimmer (R, L)	8542 11 00	38
Universal touch dimmer 1gang	8542 12 00	38
Mains insert for KNX radio application module	8502 01 00	77

Design	Order no.	PU
Berker S.1/B.3/B.7		
white glossy	**8514 51 82**	1
polar white glossy	**8514 51 89**	1
polar white matt	**8514 51 88**	1
anthracite matt	**8514 51 85**	1
aluminium, matt, lacquered	**8514 51 83**	1

Design	Order no.	PU
Berker Q.1/Q.3		
polar white velvety	**8514 51 29**	1
anthracite velvety, lacquered	**8514 51 26**	1

Design	Order no.	PU
Berker K.1/K.5		
polar white glossy	**8514 51 79**	1
anthracite matt, lacquered	**8514 51 75**	1
aluminium, matt, lacquered	**8514 51 77**	1
stainless steel matt, lacquered	**8514 51 73**	1

Design	Order no.	PU
Berker R.1/R.3		
polar white glossy [1]	**8514 51 39**	1
black glossy [1]	**8514 51 31**	1

[1] no dismantling protection possible

KNX radio button 2gang quicklink

Radio transmission/reception frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of radio channels	4
Number of quicklink links	max. 20 transmitter/receiver
Radio transmission power	< 10 mW
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Operating temperature	-5 ... +45 °C

For manual actuation or remote control via KNX radio.

- low intrinsic energy requirement
- configurable transmission and/or reception behaviour
- reset function (to factory setting)
- quicklink functions: switching, dimming, blind, 2 scenes, time switching, NO contact push-button, memory
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: +6 scenes, 1 button control up/down, operating mode on/off, dimming value, brightness display, push-button, status display, forced control
- LED application module/insert compatibility display
- with configuration and function LEDs
- with configuration and function button
- operating areas configurable as one or two-area operation
- switch-on brightness level for each operating area on configuration with dimmer insert, power failure proof, storable
- scene saving lockable
- with anti-dismantling protection
- top and bottom operating areas on 2gang switching/dimming inserts and network insert are freely configurable
- toolless quicklink configuration using buttons and LED display

Suitable for	Order no.	Page
Switch insert 2gang	8512 22 00	37
Universal touch dimmer 2gang	8542 21 00	39
Mains insert for KNX radio application module	8502 01 00	77

Design	Order no.	PU
Berker S.1/B.3/B.7		
white glossy	**8514 61 82**	1
polar white glossy	**8514 61 89**	1
polar white matt	**8514 61 88**	1
anthracite matt	**8514 61 85**	1
aluminium, matt, lacquered	**8514 61 83**	1
Berker Q.1/Q.3		
polar white velvety	**8514 61 29**	1
anthracite velvety, lacquered	**8514 61 26**	1

Design	Order no.	PU
Berker K.1/K.5		
polar white glossy	**8514 61 79**	1
anthracite matt, lacquered	**8514 61 75**	1
aluminium, matt, lacquered	**8514 61 77**	1
stainless steel matt, lacquered	**8514 61 73**	1

Design	Order no.	PU
Berker R.1/R.3		
polar white glossy [1]	**8514 61 39**	1
black glossy [1]	**8514 61 31**	1

[1] no dismantling protection possible

KNX radio button 4gang quicklink

Radio transmission/reception frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of radio channels	4
Number of quicklink links	max. 20 transmitter/receiver
Radio transmission power	< 10 mW
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Operating temperature	-5 ... +45 °C

Extended operating options on 1gang inserts through 2 additional, freely-configurable radio channels.

For manual actuation or remote control via KNX radio.

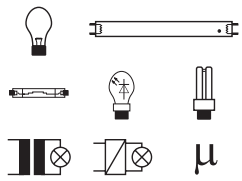
- low intrinsic energy requirement
- Functions for the push-button operation areas up/down or left/right can be freely configured as receiver for controlling the connected load and as transmitter for remote control of a blind, for example
- configurable transmission and/or reception behaviour
- reset function (to factory setting)
- quicklink functions: switching, dimming, blind, 2 scenes, time switching, NO contact push-button, memory
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: +6 scenes, 1 button control up/down, operating mode on/off, dimming value, brightness display, push-button, status display, forced control
- LED application module/insert compatibility display
- with configuration and function LEDs
- with configuration and function button
- operating areas configurable as one or two-area operation
- switch-on brightness level for each operating area on configuration with dimmer insert, power failure proof, storable
- scene saving lockable
- with anti-dismantling protection
- toolless quicklink configuration using buttons and LED display

Suitable for	Order no.	Page
Switch inserts		page 49
Dimmer inserts		page 51
Mains insert for KNX radio application module	8502 01 00	77

Design	Order no.	PU
Berker S.1/B.3/B.7		
white glossy	**8564 81 82**	1
polar white glossy	**8564 81 89**	1
polar white matt	**8564 81 88**	1
anthracite matt	**8564 81 85**	1
aluminium, matt, lacquered	**8564 81 83**	1
Berker Q.1/Q.3		
polar white velvety	**8564 81 29**	1
anthracite velvety, lacquered	**8564 81 26**	1
Berker K.1/K.5		
polar white glossy	**8564 81 79**	1
anthracite matt, lacquered	**8564 81 75**	1
aluminium, matt, lacquered	**8564 81 77**	1
stainless steel matt, lacquered	**8564 81 73**	1
Berker R.1/R.3		
polar white glossy [1]	**8564 81 39**	1
black glossy [1]	**8564 81 31**	1

[1] no dismantling protection possible

KNX radio time switches



Relay insert

Operating voltage	230 V~
Frequency	50/60 Hz
Power consumption (standby)	< 0.3 W
230 V incandescent lamps and halogen lamps	2300 W
230 V retrofit LED lamps	440 W
Dimmable energy-saving lamps	440 W
Fluorescent lamps:	
- uncompensated	1100 VA
- parallel compensated	1000 W /130 µF
- in Duo circuit	1000 W
- with electronical ballast (EB)	1000 W
Compact fluorescent lamps with electronic ballast	22 x 20 W
Dimmable conventional transformers	1500 VA
Electronic transformers and dual-mode transformers	1500 W
Minimum contact load	≈ 15 W
Operating temperature	-5 ... +45 °C
Number of substations	unlimited
Cable length, extensions	max. 50 m
Load cable length	max. 100 m
Screw terminals	max. 2 x 1,5/1 x 2,5 mm²
Housing installation depth	22 mm
Claw guidance installation depth	32 mm

Neutral conductor necessary!

Comprehensive transmission and reception functions, in conjunction with a KNX radio application module.

- low intrinsic energy requirement
- also usable as push-button relay switch
- with extension unit input for push-button (NO contact), single-surface operation and motion detector extension unit
- no conductive connection between supporting ring and spreading claws
- with screw terminals

Design	Order no.	PU
Relay insert	**8512 12 00**	1

quicklink

KNX radio timer quicklink

- Display

Radio transmission/reception frequency	868.3 MHz
Radio protocol	KNX Radio
Number of radio channels	1
Number of quicklink links	max. 20 transmitter/receiver
Radio transmission power	< 10 mW
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Astronomic time shift	± 2 h
Random number generator	± 15 min
Running accuracy	± 3 min/year
Power reserve	≈ 24 h
Number of switching times for on/off	20
Operating temperature	-5 ... +45 °C

Control using device buttons, radio transmitters and programmed switching times.

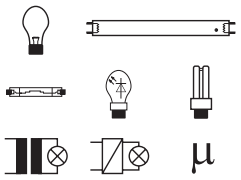
- low intrinsic energy requirement
- 2 independent preset programme memories, individually adaptable
- with switchover manual/automatic mode
- astro programme for sunrise/sundown switching with city/country or co-ordinate input, individually adaptable
- holiday programme for random variation of the switching times in automatic operation
- standalone programme, radio and extension unit commands are not executed
- configurable transmission and/or reception behaviour
- with keylock
- party function, no execution of automatic, radio and extension unit commands (switch protection)
- reset function (to factory setting)
- quicklink functions: switching, 2 scenes, time switching, NO contact push-button, forced control
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: +6 scenes, operating mode on/off, scene loading, time dimming value, push-button, status display
- with automatic summer-/winter time switching (can be switched off)
- indication of the application module/insert compatibility in the display
- LC display illuminated during operation
- LC display contrast is adjustable
- menu guidance available in German, English or French
- with anti-dismantling protection

Suitable for	Order no.	Page
Relay insert	8512 12 00	36
Mains insert for KNX radio application module	8502 01 00	77

Design	Order no.	PU
Berker S.1/B.3/B.7		
white glossy	**8574 52 82**	1
polar white glossy	**8574 52 89**	1
polar white matt	**8574 52 88**	1
anthracite matt	**8574 52 85**	1
aluminium, matt, lacquered	**8574 52 83**	1
Berker Q.1/Q.3		
polar white velvety	**8574 52 29**	1
anthracite velvety, lacquered	**8574 52 26**	1
Berker K.1/K.5		
polar white glossy	**8574 52 79**	1
anthracite matt, lacquered	**8574 52 75**	1
aluminium, matt, lacquered	**8574 52 77**	1
stainless steel matt, lacquered	**8574 52 73**	1
Berker R.1/R.3		
polar white glossy	**8574 52 39**	1
black glossy	**8574 52 31**	1

Motion detectors

Inserts



Relay insert

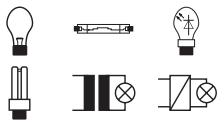
Operating voltage	230 V~
Frequency	50/60 Hz
Power consumption (standby)	< 0.3 W
230 V incandescent lamps and halogen lamps	2300 W
230 V retrofit LED lamps	440 W
Dimmable energy-saving lamps	440 W
Fluorescent lamps:	
- uncompensated	1100 VA
- parallel compensated	1000 W /130 µF
- in Duo circuit	1000 W
- with electronical ballast (EB)	1000 W
Compact fluorescent lamps with electronic ballast	22 x 20 W
Dimmable conventional transformers	1500 VA
Electronic transformers and dual-mode transformers	1500 W
Minimum contact load	≈ 15 W
Operating temperature	-5 ... +45 °C
Number of substations	unlimited
Cable length, extensions	max. 50 m
Load cable length	max. 100 m
Screw terminals	max. 2 x 1,5/1 x 2,5 mm²
Housing installation depth	22 mm
Claw guidance installation depth	32 mm

- low intrinsic energy requirement
- also usable as push-button relay switch
- with extension unit input for push-button (NO contact), single-surface operation and motion detector extension unit
- no conductive connection between supporting ring and spreading claws
- with screw terminals

Neutral conductor necessary!

Comprehensive transmission and reception functions, in conjunction with a KNX radio application module.

Design	Order no.	PU
Relay insert	**8512 12 00**	1



Switch insert 1gang

Operating voltage	230 V~
Frequency	50/60 Hz
Power consumption (standby)	< 0.3 W
230 V incandescent lamps and halogen lamps	25 ... 400 W
Dimmable 230 V retrofit LED lamps	5 ... 70 W
Dimmable energy-saving lamps	13 ... 80 W
Dimmable conventional transformers	25 ... 400 VA
Electronic transformers and dual-mode transformers	25 ... 400 W
Operating temperature	-5 ... +45 °C
Number of substations	unlimited
Cable length, extensions	max. 50 m
Load cable length	max. 100 m
Screw terminals	max. 2 x 1,5/1 x 2,5 mm²
Insertion depth	32 mm

- low intrinsic energy requirement
- bulb-preserving soft startup
- automatic setting to dimmable loads (autoDetect process)
- short-circuit and overload proof (electronic fuse)
- Optimisation of the dimming performance by fine adjustment of the load type and special adjustment mode
- with extension unit input for push-button (NO contact), single-surface operation and motion detector extension unit
- no conductive connection between supporting ring and spreading claws
- with screw terminals

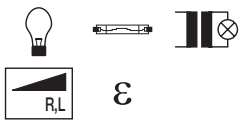
Caution!
Only connect **dimmable** 230 V ESL or retrofit-LED lamps.

Only suitable for operation with dimmable loads!

Do not connect inductive and capacitive loads jointly.

Comprehensive transmission and reception functions, in conjunction with a KNX radio application module.

Design	Order no.	PU
Switch insert 1gang	**8512 11 00**	1



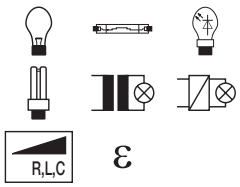
Touch dimmer (R, L)

Operating voltage	230 V~
Frequency	50/60 Hz
Power consumption (standby)	< 0.3 W
230 V incandescent lamps and halogen lamps	25 ... 400 W
Dimmable conventional transformers	25 ... 400 VA
Number of universal capacity enhancers	max. 2
Operating temperature	-5 ... +45 °C
Number of substations	unlimited
Cable length, extensions	max. 50 m
Load cable length	max. 100 m
Screw terminals	max. 2 x 1,5/1 x 2,5 mm²
Insertion depth	32 mm

- low intrinsic energy requirement
- switch-on brightness level can be stored safe after power failure
- bulb-preserving soft startup
- phase cut-on
- short-circuit and overload proof (electronic fuse)
- with extension unit input for push-button (NO contact) with single-surface operation and motion detector extension unit
- expandable with universal power boosters RMD Plus
- no conductive connection between supporting ring and spreading claws
- with screw terminals

Comprehensive transmission and reception functions, in conjunction with a KNX radio application module.

Design	Order no.	PU
Touch dimmer (R, L)	**8542 11 00**	1



Universal touch dimmer 1gang

Operating voltage	230 V~
Frequency	50/60 Hz
Power consumption (standby)	< 0.3 W
230 V incandescent lamps and halogen lamps	25 ... 400 W
Dimmable 230 V retrofit LED lamps	5 ... 70 W
Dimmable energy-saving lamps	13 ... 80 W
Dimmable conventional transformers	25 ... 400 VA
Electronic transformers and dual-mode transformers	25 ... 400 W
Operating temperature	-5 ... +45 °C
Number of substations	unlimited
Cable length, extensions	max. 50 m
Load cable length	max. 100 m
Screw terminals	max. 2 x 1,5/1 x 2,5 mm²
Insertion depth	32 mm

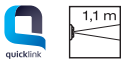
- low intrinsic energy requirement
- bulb-preserving soft startup
- automatic setting to dimmable loads (autoDetect process)
- phase cut-on or cut-off according to load type, self-learning
- short-circuit and overload proof (electronic fuse)
- Optimisation of the dimming performance by fine adjustment of the load type and special adjustment mode
- with extension unit input for push-button (NO contact) with single-surface operation and motion detector extension unit
- no conductive connection between supporting ring and spreading claws
- with screw terminals

Do not connect inductive and capacitive loads jointly.

Comprehensive transmission and reception functions, in conjunction with a KNX radio application module.

Design	Order no.	PU
Universal touch dimmer 1gang	**8542 12 00**	1

KNX radio motion detector application modules



KNX radio motion detector comfort 1.1 m quicklink

Radio transmission frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of radio channels	1
Number of quicklink links	max. 20 transmitter/receiver
Radio transmission power	< 10 mW
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Delay time, adjustable	≈ 1 s ... 3 h
Nominal mounting height	1.1 m
Detection angle, settable	each side ≈ 45 ... 90 °
Response sensitivity, settable	≈ 10 ... 100 %
Response brightness, adjustable	≈ 5 ... 1000 lx, ∞ lx (day)
Range, frontal	≈ 12 m
Range, side	each ≈ 8 m
Detection field, rectangular shaped	≈ 12 x 16 m
Switch-off pre-warning to dimming value 50% for	30 s
Operating temperature	-5 ... +45 °C
Assembling height	34 mm

- low intrinsic energy requirement
- with memory function for presence simulation
- teach function for response brightness via button
- with keylock
- party function for switching on for 2 hours
- reset function (to factory setting)
- switch-off pre-warning on dimmer inserts
- quicklink functions: switching, dimming, 2 scenes, time switching, NO contact push-button, Memory, forced control, Master-Slave
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: +6 scenes, operating mode on/off, push-button, status display, dimming value, brightness display, movement scene loading, no movement scene loading
- LED application module/insert compatibility display
- with operation and status LED, red/green/orange
- with configuration and function LEDs
- with configuration and function button
- with button for on/off/automatic/memory/party function
- remote control via quicklink transmitter
- scene opening via KNX radio appliances
- scene saving lockable
- µ-processor controlled mode of operation
- with anti-dismantling protection
- optional operation of extension units using installation push-button

Continuous direct sunlight penetrating the upward-pointing detection plane can result in failure of the motion detector.
Only suitable for indoor areas!

Suitable for	Order no.	Page
Inserts		page 57
Mains insert for KNX radio application module	8502 01 00	77

Design	Order no.	PU
Berker S.1/B.3/B.7		
white glossy	**8534 51 82**	1
polar white glossy	**8534 51 89**	1
polar white matt	**8534 51 88**	1
anthracite matt	**8534 51 85**	1
aluminium, matt, lacquered	**8534 51 83**	1

Design	Order no.	PU
Berker Q.1/Q.3		
polar white velvety	**8534 51 29**	1
anthracite velvety, lacquered	**8534 51 26**	1

Design	Order no.	PU
Berker K.1/K.5		
polar white glossy	**8534 51 79**	1
anthracite matt, lacquered	**8534 51 75**	1
aluminium, matt, lacquered	**8534 51 77**	1
stainless steel matt, lacquered	**8534 51 73**	1

Design	Order no.	PU
Berker R.1/R.3		
polar white glossy [1]	**8534 51 39**	1
black glossy [1]	**8534 51 31**	1

[1] no dismantling protection possible

KNX radio motion detector comfort 2.2 m quicklink

Radio transmission frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of radio channels	1
Number of quicklink links	max. 20 transmitter/receiver
Radio transmission power	< 10 mW
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Delay time, adjustable	≈ 1 s ... 3 h
Nominal mounting height	2.2 m
Detection angle, settable	each side ≈ 45 ... 90 °
Response sensitivity, settable	≈ 10 ... 100 %
Response brightness, adjustable	≈ 5 ... 1000 lx, ∞ lx (day)
Range, frontal	≈ 8 m
Range, frontal (at 1.1 m installation height)	≈ 4 m
Range, side	each ≈ 6 m
Range, side (at 1.1 m installation height)	each ≈ 3 m
Detection field, rectangular shaped	≈ 8 x 12 m
Switch-off pre-warning to dimming value 50% for	30 s
Operating temperature	-5 ... +45 °C
Assembling height	34 mm

- low intrinsic energy requirement
- with memory function for presence simulation
- teach function for response brightness via button
- with keylock
- party function for switching on for 2 hours
- reset function (to factory setting)
- switch-off pre-warning on dimmer inserts
- quicklink functions: switching, dimming, 2 scenes, time switching, NO contact push-button, Memory, forced control, Master-Slave
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: +6 scenes, operating mode on/off, push-button, status display, dimming value, brightness display, movement scene loading, no movement scene loading
- LED application module/insert compatibility display
- with operation and status LED, red/green/orange
- with configuration and function LEDs
- with configuration and function button
- with button for on/off/automatic/memory/party function
- remote control via quicklink transmitter
- scene opening via KNX radio appliances
- scene saving lockable
- µ-processor controlled mode of operation
- with anti-dismantling protection
- optional operation of extension units using installation push-button

Suitable for	Order no.	Page
Inserts		page 57
Mains insert for KNX radio application module	8502 01 00	77

Design	Order no.	PU
Berker S.1/B.3/B.7		
white glossy	**8534 61 82**	1
polar white glossy	**8534 61 89**	1
polar white matt	**8534 61 88**	1
anthracite matt	**8534 61 85**	1
aluminium, matt, lacquered	**8534 61 83**	1
Berker Q.1/Q.3		
polar white velvety	**8534 61 29**	1
anthracite velvety, lacquered	**8534 61 26**	1

Design	Order no.	PU
Berker K.1/K.5		
polar white glossy	**8534 61 79**	1
anthracite matt, lacquered	**8534 61 75**	1
aluminium, matt, lacquered	**8534 61 77**	1
stainless steel matt, lacquered	**8534 61 73**	1
Berker R.1/R.3		
polar white glossy [1]	**8534 61 39**	1
black glossy [1]	**8534 61 31**	1

[1] no dismantling protection possible

Surface-mounted motion detectors

IP55

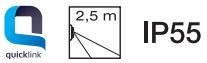
KNX radio motion detector 220° surface-mounted

Operating voltage	4.5 V=
Battery service life [years]	≈ 4
Radio transmission frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of radio channels	1
Number of quicklink links	max. 20 transmitter/receiver
Radio transmission power	< 10 mW
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Delay time, adjustable	≈ 1 s ... 3 h
Lockout time	10 s
Recommended installation height	≈ 2.5 m
Detection angle	220 °
Response sensitivity, settable	≈ 20 ... 100 %
Response brightness, adjustable	≈ 5 ... 1000 lx, ∞ lx (day)
Range, frontal	≈ 16 m
Range, side	each ≈ 8 m
Detection field, semi-oval shaped	≈ 16 x 16 m
Operating temperature	-20 ... +55 °C
Dimensions (W x H x D)	91 x 130 x 153 mm

- low intrinsic energy requirement
- reset function (to factory setting)
- quicklink functions: time switching, NO contact push-button
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: operating mode on/off, push-button, dimming value, brightness display, movement scene loading, no movement scene loading
- with battery status indicator
- with configuration LED
- with LED detection indicator
- with configuration button
- µ-processor controlled mode of operation
- with crawl-under protection
- with 3 Micro, alkaline batteries AAA LR03
- toolless quicklink configuration using buttons and LED display
- for wall and ceiling installation, corner installation with adapter
- vertically slewing and horizontally rotating
- with cover elements to limit the detection field
- wall retaining plate and fastening material included in scope of delivery

Suitable for optional	Order no.	Page
Surface-mounted corner mounting adapter for motion detector	EE855	62

Design	Order no.	PU
polar white matt	**TRE520**	1



KNX radio motion detector 220° solar

Operating voltage	4.5 V=
Radio transmission frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of radio channels	1
Number of quicklink links	max. 20 transmitter/receiver
Radio transmission power	< 10 mW
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Delay time, adjustable	≈ 1 s ... 3 h
Lockout time	10 s
Recommended installation height	≈ 2.5 m
Detection angle	220 °
Response sensitivity, settable	≈ 20 ... 100 %
Response brightness, adjustable	≈ 5 ... 1000 lx, ∞ lx (day)
Range, frontal	≈ 16 m
Range, side	each ≈ 8 m
Detection field, semi-oval shaped	≈ 16 x 16 m
Operating temperature	-20 ... +55 °C
Dimensions (W x H x D)	91 x 130 x 153 mm

- low intrinsic energy requirement
- reset function (to factory setting)
- quicklink functions: time switching, NO contact push-button
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: operating mode on/off, push-button, dimming value, brightness display, movement scene loading, no movement scene loading
- with configuration LED
- with LED detection indicator
- with configuration button
- µ-processor controlled mode of operation
- with crawl-under protection
- toolless quicklink configuration using buttons and LED display
- not dependent on mains power
- for wall and ceiling installation, corner installation with adapter
- vertically slewing and horizontally rotating
- with cover elements to limit the detection field
- wall retaining plate and fastening material included in scope of delivery

Suitable for optional	Order no.	Page
Surface-mounted corner mounting adapter for motion detector	EE855	62

Design	Order no.	PU
polar white matt	**TRE530**	1

KNX radio motion detector 220° surface-mounted/ switch actuator 1gang surface-mounted set

- low intrinsic energy requirement
- the motion detector (transmitter) and switch actuator (receiver) are pre-configured for joint use
- set consists of KNX radio controller 220°, surface-mounted (order no. 8536 51 00) and switch actuator, 1gang, surface-mounted (order no. 8516 51 00)

Suitable for optional	Order no.	Page
Surface-mounted corner mounting adapter for motion detector	EE855	62

Design	Order no.	PU
polar white matt/white	**TRE720**	1

Surface-mounted corner mounting adapter for motion detector

- for mounting, e.g. on building corners

Suitable for	Order no.	Page
KNX radio motion detector 220° surface-mounted	TRE520	61
KNX radio motion detector 220° solar	TRE530	62
KNX radio motion detector 220° surface-mounted/switch actuator 1gang surface-mounted set	TRE720	62

Design	Order no.	PU
polar white matt	**EE855**	1

Blind control

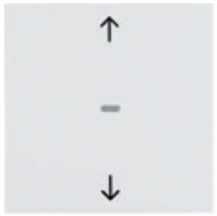
Blind insert comfort

Operating voltage	230 V~
Frequency	50/60 Hz
Switching current (ohmic/ inductive)	max. 5 A
Switching current at cos = 0.6	max. 3 A
Power consumption (standby)	< 0.1 W
Change-over time for change of direction	< 0.6 s
Operating temperature	-5 ... +45 °C
Number of substations	unlimited
Cable length, extensions	max. 50 m
Load cable length	max. 100 m
Screw terminals	max. 2 x 1,5/1 x 2,5 mm²
Housing installation depth	22 mm
Claw guidance installation depth	32 mm

- low intrinsic energy requirement
- with 2 mechanically and electrically mutually-locked relay contacts
- with 230 V extension unit inputs for up and down
- for single, group and master controls
- no conductive connection between supporting ring and spreading claws
- circuiting of extension units push-buttons for blinds, blind inserts, key push-buttons for blinds
- with screw terminals

Design	Order no.	PU
Blind insert comfort	**8522 11 00**	1

KNX radio blind covers



KNX radio blind button quicklink

Radio transmission/reception frequency	868.3 MHz
Radio protocol	KNX Radio
Number of radio channels	1
Number of quicklink links	max. 20 transmitter/receiver
Radio transmission power	< 10 mW
Radio transmission range (free field)	
Radio transmission range (building)	max. 30 m
Venetian blind movement time	2 min
Minimum slat adjustment time	≈ 150 ms
Lamella adjustment on signal duration	< 1 s
Lamella adjustment on button-press	< 0.4 s
Change-over time for change of direction	< 0.6 s
Operating temperature	-5 ... +45 °C

For manual actuation, automated memory execution or remote control via KNX radio.

- low intrinsic energy requirement
- memory function for automatic execution of learned up and down times with position
- configurable transmission and/or reception behaviour
- party function, no execution of automatic, radio and extension unit commands (lock-out protection)
- reset function (to factory setting)
- quicklink functions: blind, 2 scenes, memory, forced control, up/down push-button
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: +6 scenes, operating mode, status display, 2 x alarm
- LED application module/insert compatibility display
- with configuration and function LEDs
- with indicator LED for lock-out protection
- with status LED for memory and party function, red/ orange
- with configuration and function button
- scene opening via KNX radio appliances
- slat position storable for scene
- with anti-dismantling protection
- toolless quicklink configuration using buttons and LED display
- sun protection and twilight-controlled lowering with radio brightness sensor
- with imprinted symbol arrows

Suitable for	Order no.	Page
Blind insert comfort	8522 11 00	63
Mains insert for KNX radio application module	8502 01 00	77
optional		
KNX radio brightness sensor	TR321A	70

Design	Order no.	PU
Berker S.1/B.3/B.7		
white glossy	**8524 51 82**	1
polar white glossy	**8524 51 89**	1
polar white matt	**8524 51 88**	1
anthracite matt	**8524 51 85**	1
aluminium, matt, lacquered	**8524 51 83**	1

Design	Order no.	PU
Berker Q.1/Q.3		
polar white velvety	**8524 51 29**	1
anthracite velvety, lacquered	**8524 51 26**	1

Design	Order no.	PU
Berker K.1/K.5		
polar white glossy	**8524 51 79**	1
anthracite matt, lacquered	**8524 51 75**	1
aluminium, matt, lacquered	**8524 51 77**	1
stainless steel matt, lacquered	**8524 51 73**	1

Design	Order no.	PU
Berker R.1/R.3		
polar white glossy	**8524 51 39**	1
black glossy	**8524 51 31**	1

quicklink

KNX radio blind time switch quicklink

- Display

14:23

Radio transmission/reception frequency	868.3 MHz
Radio protocol	KNX Radio
Number of radio channels	1
Number of quicklink links	max. 20 transmitter/receiver
Radio transmission power	< 10 mW
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Running time	2 min
Astronomic time shift	± 2 h
Random number generator for holiday program	± 15 min
Running accuracy	± 3 min/year
Power reserve	≈ 24 h
Number of operation times for up/down	20/day
Minimum slat adjustment time	≈ 150 ms
Lamella adjustment on signal duration	< 1 s
Lamella adjustment on button-press	< 0.5 s
Change-over time for change of direction	< 0.6 s
Operating temperature	-5 ... +45 °C

Control using device buttons, radio transmitters and programmed switching times.

- low intrinsic energy requirement
- 2 independent preset programme memories, individually adaptable
- with switchover manual/automatic mode
- astro programme for sunrise/sundown switching with city/country or co-ordinate input, individually adaptable
- holiday programme for random variation of the operation times in automatic operation
- standalone programme, radio and extension unit commands are not executed
- configurable transmission and/or reception behaviour
- with keylock
- party function, no execution of automatic, radio and extension unit commands (lock-out protection)
- reset function (to factory setting)
- quicklink functions for integration into the individual, group and master control of blinds/shutters
- quicklink functions: blind, 2 scenes, forced control, up/down push-button
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- with automatic summer-/winter time switching (can be switched off)
- scene opening via KNX radio appliances
- slat position storable for scene
- indication of the application module/insert compatibility in the display
- LC display illuminated during operation
- LC display contrast is adjustable
- menu guidance available in German, English or French
- with anti-dismantling protection
- sun protection and twilight-controlled lowering with radio brightness sensor

Suitable for	Order no.	Page
Blind insert comfort	8522 11 00	63
Mains insert for KNX radio application module	8502 01 00	77
optional		
KNX radio brightness sensor	TR321A	70

Design	Order no.	PU
Berker S.1/B.3/B.7		
white glossy	**8574 51 82**	1
polar white glossy	**8574 51 89**	1
polar white matt	**8574 51 88**	1
anthracite matt	**8574 51 85**	1
aluminium, matt, lacquered	**8574 51 83**	1
Berker Q.1/Q.3		
polar white velvety	**8574 51 29**	1
anthracite velvety, lacquered	**8574 51 26**	1

Design	Order no.	PU
Berker K.1/K.5		
polar white glossy	**8574 51 79**	1
anthracite matt, lacquered	**8574 51 75**	1
aluminium, matt, lacquered	**8574 51 77**	1
stainless steel matt, lacquered	**8574 51 73**	1
Berker R.1/R.3		
polar white glossy	**8574 51 39**	1
black glossy	**8574 51 31**	1

Transmitters

Hand-held transmitter

quicklink

KNX radio hand-held transmitter 2-channel

- Labelling field

Operating voltage	6 V=
Battery service life [years]	≈ 5
Radio transmission frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of radio channels	2
Radio transmission power	< 10 mW
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Operating temperature	-10 ... +45 °C
Dimensions (L x W x H)	83 x 46.5 x 15.8 mm

- reset function (to factory setting)
- quicklink functions: switching, dimming, blind, 2 scenes, time switching, NO contact push-button, memory
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: +6 scenes, operating mode on/off, push-button, status display, dimming value
- with configuration LED
- with transmission status and battery status LED, red/green/orange
- with configuration button
- with side locking buttons
- with 2 x lithium coin cell battery 3 V type: CR 2430
- with keyring

For radio remote control of all assigned KNX radio receivers.

Design	Order no.	PU
polar white/grey, glossy/matt	**TU402**	1

quicklink

KNX radio hand-held transmitter 4-channel

- Labelling field

Operating voltage	6 V=
Battery service life [years]	≈ 5
Radio transmission frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of radio channels	4
Radio transmission power	< 10 mW
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Operating temperature	-10 ... +45 °C
Dimensions (L x W x H)	83 x 46.5 x 15.8 mm

- reset function (to factory setting)
- quicklink functions: switching, dimming, blind, 2 scenes, time switching, NO contact push-button, memory
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: +6 scenes, operating mode on/off, push-button, status display, dimming value
- with configuration LED
- with transmission status and battery status LED, red/green/orange
- with configuration button
- with side locking buttons
- with 2 x lithium coin cell battery 3 V type: CR 2430
- with keyring

For radio remote control of all assigned KNX radio receivers.

Design	Order no.	PU
polar white/grey, glossy/matt	**TU404**	1

KNX radio hand-held transmitter 6-channel

- Labelling field

Operating voltage	6 V=
Battery service life [years]	≈ 5
Radio transmission frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of radio channels	6
Radio transmission power	< 10 mW
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Operating temperature	+0 ... +45 °C
Dimensions (L x W x H)	133.6 x 50.2 x 16 mm

For radio remote control of all assigned KNX radio receivers.

- reset function (to factory setting)
- quicklink functions: switching, dimming, blind, 2 scenes, time switching, NO contact push-button, memory
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: +6 scenes, operating mode on/off, push-button, status display, dimming value
- with configuration LED
- with transmission status and battery status LED, red/green/orange
- with 2 x lithium coin cell battery 3 V type: CR 2430

Design	Order no.	PU
polar white velvety	**TU406**	1

KNX radio hand-held transmitter 18-channel

- Labelling field

Operating voltage	6 V=
Battery service life [years]	≈ 5
Radio transmission frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of radio channels	18
Radio transmission power	< 10 mW
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Operating temperature	+0 ... +45 °C
Dimensions (L x W x H)	133.6 x 50.2 x 16 mm

For radio remote control of all assigned KNX radio receivers.

- reset function (to factory setting)
- quicklink functions: switching, dimming, blind, 2 scenes, time switching, NO contact push-button, memory
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: +6 scenes, operating mode on/off, push-button, status display, dimming value
- with configuration LED
- with transmission status and battery status LED, red/green/orange
- with 2 x lithium coin cell battery 3 V type: CR 2430
- with channel group slide switch
- with movement and actuation-dependent labelling field illumination

Design	Order no.	PU
white/dark blue	**TU418**	1

Wall-transmitters

KNX radio wall-transmitter 1gang flat quicklink

Operating voltage	3 V=
Battery service life [years]	≈ 5
Radio transmission frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of radio channels	2
Number of quicklink links	max. 20 transmitter/receiver
Radio transmission power	< 10 mW
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Operating temperature	-5 ... +45 °C
Assembling height	14 mm

For radio remote control of all assigned KNX radio receivers.

- reset function (to factory setting)
- quicklink functions: switching, dimming, blind, 2 scenes, time switching, NO contact push-button, memory
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: +6 scenes, operating mode on/off, push-button, status display, dimming value
- with configuration LED
- with transmission status and battery status LED, red/green/orange
- with configuration button
- operating areas configurable as one or two-area operation
- with anti-dismantling protection
- with lithium coin cell battery 3 V type: CR 2430
- top and bottom operating area are freely configurable
- toolless quicklink configuration using buttons and LED display
- for flat surface mounting and extension of combinations

Design	Order no.	PU
Berker S.1/B.3/B.7		
white glossy	**8565 52 82**	1
polar white glossy	**8565 52 89**	1
polar white matt	**8565 52 88**	1
anthracite matt	**8565 52 85**	1
aluminium, matt, lacquered	**8565 52 83**	1
Berker Q.1/Q.3		
polar white velvety	**8565 52 29**	1
anthracite velvety, lacquered	**8565 52 26**	1
Berker K.1/K.5		
polar white glossy	**8565 52 79**	1
anthracite matt, lacquered	**8565 52 75**	1
aluminium, matt, lacquered	**8565 52 77**	1
stainless steel matt, lacquered	**8565 52 73**	1
Berker R.1/R.3		
polar white glossy [1)]	**8565 52 39**	1
black glossy [1)]	**8565 52 31**	1

[1)] no dismantling protection possible

KNX radio wall-transmitter 2gang flat quicklink

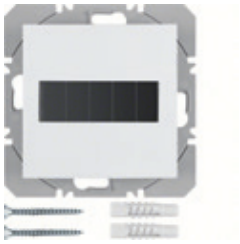
Operating voltage	3 V=
Battery service life [years]	≈ 5
Radio transmission frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of radio channels	4
Number of quicklink links	max. 20 transmitter/receiver
Radio transmission power	< 10 mW
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Operating temperature	-5 ... +45 °C
Assembling height	14 mm

For radio remote control of all assigned KNX radio receivers.

- reset function (to factory setting)
- quicklink functions: switching, dimming, blind, 2 scenes, time switching, NO contact push-button, memory
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: +6 scenes, operating mode on/off, push-button, status display, dimming value
- with configuration LED
- with transmission status and battery status LED, red/green/orange
- with configuration button
- operating areas configurable as one or two-area operation
- with anti-dismantling protection
- with lithium coin cell battery 3 V type: CR 2430
- top and bottom operating areas are freely configurable
- toolless quicklink configuration using buttons and LED display
- for flat surface mounting and extension of combinations

Design	Order no.	PU
Berker S.1/B.3/B.7		
white glossy	**8565 62 82**	1
polar white glossy	**8565 62 89**	1
polar white matt	**8565 62 88**	1
anthracite matt	**8565 62 85**	1
aluminium, matt, lacquered	**8565 62 83**	1
Berker Q.1/Q.3		
polar white velvety	**8565 62 29**	1
anthracite velvety, lacquered	**8565 62 26**	1
Berker K.1/K.5		
polar white glossy	**8565 62 79**	1
anthracite matt, lacquered	**8565 62 75**	1
aluminium, matt, lacquered	**8565 62 77**	1
stainless steel matt, lacquered	**8565 62 73**	1
Berker R.1/R.3		
polar white glossy [1]	**8565 62 39**	1
black glossy [1]	**8565 62 31**	1

[1] no dismantling protection possible



KNX radio wall-transmitter 1gang flat solar quicklink

Operating voltage	3 V=
Radio transmission frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of radio channels	2
Number of quicklink links	max. 20 transmitter/receiver
Radio transmission power	< 10 mW
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Required Ø brightness	at least 300 lx 6 h/day
Operating temperature	-5 ... +45 °C
Assembling height	14 mm

For radio remote control of all assigned KNX radio receivers.

- reset function (to factory setting)
- quicklink functions: switching, dimming, blind, 2 scenes, time switching, NO contact push-button, memory
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: +6 scenes, operating mode on/off, push-button, status display, dimming value
- with configuration LED
- with transmission status and battery status LED, red/green/orange
- with configuration button
- operating areas configurable as one or two-area operation
- power supply via solar cells
- with anti-dismantling protection
- top and bottom operating area are freely configurable
- toolless quicklink configuration using buttons and LED display
- for flat surface mounting and extension of combinations

Design	Order no.	PU
Berker S.1/B.3/B.7		
white glossy	**8565 51 82**	1
polar white glossy	**8565 51 89**	1
polar white matt	**8565 51 88**	1
anthracite matt	**8565 51 85**	1
aluminium, matt, lacquered	**8565 51 83**	1
Berker R.1/R.3		
polar white glossy [1]	**8565 51 39**	1
black glossy [1]	**8565 51 31**	1

[1] no dismantling protection possible

KNX radio wall-transmitter 2gang flat solar quicklink

Operating voltage	3 V=
Radio transmission frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of radio channels	4
Number of quicklink links	max. 20 transmitter/receiver
Radio transmission power	< 10 mW
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Required Ø brightness	at least 300 lx 6 h/day
Operating temperature	-5 ... +45 °C
Assembling height	14 mm

For radio remote control of all assigned KNX radio receivers.

- reset function (to factory setting)
- quicklink functions: switching, dimming, blind, 2 scenes, time switching, NO contact push-button, memory
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: +6 scenes, operating mode on/off, push-button, status display, dimming value
- with configuration LED
- with transmission status and battery status LED, red/green/orange
- with configuration button
- operating areas configurable as one or two-area operation
- power supply via solar cells
- with anti-dismantling protection
- top and bottom operating areas are freely configurable
- toolless quicklink configuration using buttons and LED display
- for flat surface mounting and extension of combinations

Design	Order no.	PU
Berker S.1/B.3/B.7		
white glossy	**8565 61 82**	1
polar white glossy	**8565 61 89**	1
polar white matt	**8565 61 88**	1
anthracite matt	**8565 61 85**	1
aluminium, matt, lacquered	**8565 61 83**	1

Berker R.1/R.3

polar white glossy	**8565 61 39**	1
black glossy	**8565 61 31**	1

Sensors

KNX radio brightness sensor

Operating voltage	3 V=
Battery service life [years]	≈ 4
Radio transmission frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of radio channels	1
Number of quicklink links	max. 20 transmitter/receiver
Radio transmission power	< 10 mW
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Sun setting range	≈ 1 ... 10 klx
Twilight setting range	≈ 10 ... 300 lx
Operating temperature	+0 ... +50 °C
Fibre optic cable, sensor cable length	≈ 1.5 m
Dimensions (L x W x H)	138 x 26 x 31 mm
Weight	≈ 70 g

- reset function (to factory setting)
- quicklink functions: up/down push-button
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: button function, battery condition
- with 2 potentiometers for sun/twilight and LED display for actual value
- with configuration LED
- with configuration button
- with 2 Micro, alkaline batteries AAA LR03
- toolless quicklink configuration using buttons and LED display
- confectioned, with fibre-optic cable and plug
- for suction cover to window pane
- with photodiode
- with adhesive pads and adhesive cable clips for fastening

Suitable for	Order no.	Page
KNX radio blind button quicklink	8524 51 ..	63
KNX radio blind time switch quicklink	8574 51 ..	64

Design	Order no.	PU
polar white matt	**TR321A**	1

KNX radio magnetic contact

Operating voltage	3 V=
Battery service life [years]	≈ 4
Radio transmission frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of radio channels	1
Number of quicklink links	max. 20 transmitter/receiver
Radio transmission power	< 10 mW
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Operating temperature	+0 ... +50 °C
Distance to magnet	max. 5 mm
Dimensions (L x W x H)	138 x 26 x 31 mm
Weight	≈ 70 g

- reset function (to factory setting)
- quicklink functions: switching, blind, 2 scenes, time switching, NO contact push-button, forced control
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: value, delay time, button function, battery condition
- with configuration LED
- with transmission status, battery status and control LEDs
- with configuration button
- with 2 Micro, alkaline batteries AAA LR03
- toolless quicklink configuration using buttons and LED display
- with adapters for magnet height compensation
- with adhesive pads for fastening
- with additional screw terminals for wired reed contacts

Design	Order no.	PU
polar white matt	**TRC301A**	1

Binary inputs

KNX radio binary input 2gang flush-mounted

Operating voltage	3 V=
Battery service life [years]	≈ 5
Radio transmission frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of radio channels	2
Number of quicklink links	max. 20 transmitter/receiver
Radio transmission power	< 10 mW
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Pulse time	min. 50 ms
Operating temperature	-5 ... +45 °C
Binary cable length, extendable to	max. 10 m
Dimensions (Ø x H)	51 x 16 mm

- low intrinsic energy requirement
- reset function (to factory setting)
- quicklink functions: switching, dimming, blind, 2 scenes, time switching, NO contact push-button, memory, forced control, up/down push-button
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: +6 scenes, operating mode on/off, 1 up/down button control, push-button, 2 x alarm, status display
- with configuration LED
- with configuration button
- with lithium battery 3 V type: CR 1/2 AA
- toolless quicklink configuration using buttons and LED display
- not dependent on mains power
- activation, for example through switches, push-buttons, timers, blind timer switches, magnetic contact
- confectioned, with 4-core cable
- for installation behind flush-mounted inserts
- with 2 independent battery-supplied binary inputs for potential-free contacts

Design	Order no.	PU
light grey	**TRB302A**	1

KNX radio binary input 2gang flush-mounted 230 V

Operating voltage	230 V~
Frequency	50/60 Hz
Radio transmission frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of radio channels	2
Number of quicklink links	max. 20 transmitter/receiver
Radio transmission power	< 10 mW
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Pulse time	min. 50 ms
Operating temperature	-5 ... +45 °C
Conductor cross-section	0.75 mm² ... 2.5 mm²
Binary cable length, extendable to	max. 10 m
Dimensions (Ø x H)	53 x 27 mm

- low intrinsic energy requirement
- reset function (to factory setting)
- quicklink functions: switching, dimming, blind, 2 scenes, time switching, NO contact push-button, memory, forced control, up/down push-button
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: +6 scenes, operating mode on/off, 1 up/down button control, push-button, 2 x alarm, status display
- with configuration LED
- with configuration button
- toolless quicklink configuration using buttons and LED display
- with 2 independent, mains supplied, binary inputs for potential-free contacts
- Activation, for example, through switch, push-button, wind sensor, precipitation sensor, time switch
- confectioned, with 4-core cable
- for installation behind flush-mounted inserts
- with screw-in lift terminals

Design	Order no.	PU
light grey	**TRB302B**	1

Switch actuators

IP55

KNX radio switch actuator 1gang surface-mounted

Operating voltage	230 V~
Frequency	50 Hz
230 V incandescent lamps and halogen lamps	1500 W
Fluorescent lamps:	
- uncompensated	600 VA
- with electronical ballast (EB)	6 x 58 W
Compact fluorescent lamps	6 x 18 W
Conventional transformers	600 VA
Electronic transformers	600 W
Radio reception frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of quicklink links	max. 20 transmitter/receiver
Operating temperature	-10 ... +55 °C
Dimensions (L x W x H)	150 x 85 x 35 mm

- low intrinsic energy requirement
- repeat function can be activated to increase the radio range
- reset function (to factory setting)
- quicklink functions: switching, 2 scenes, time switching, NO contact push-button, forced control
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: +6 scenes, operating mode on/off, status display
- with control LED for On/Off
- with manual operation on/off
- scene opening via KNX radio appliances
- scene saving lockable
- toolless quicklink configuration using buttons and LED display
- with screw-in lift terminals

Design	Order no.	PU
white	**TRE201**	1

IP55

KNX radio switch actuator 2gang surface-mounted

Operating voltage	230 V~
Frequency	50 Hz
Switching current	2x 10 A/230 V AC1 A
230 V incandescent lamps and halogen lamps	per channel 1500 W
Fluorescent lamps:	
- uncompensated	per channel 600 VA
- with electronical ballast (EB)	per channel 6 x 58 W
Compact fluorescent lamps	18 W
Conventional transformers	600 VA
Electronic transformers	per channel 600 W
Radio reception frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of quicklink links	max. 20 transmitter/receiver
Operating temperature	-10 ... +55 °C
Dimensions (L x W x H)	150 x 85 x 35 mm

- low intrinsic energy requirement
- repeat function can be activated to increase the radio range
- reset function (to factory setting)
- quicklink functions: switching, 2 scenes, time switching, NO contact push-button, forced control
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: +6 scenes, operating mode on/off, status display
- with control LED for On/Off
- with manual operation on/off per channel
- scene opening via KNX radio appliances
- scene saving lockable
- toolless quicklink configuration using buttons and LED display
- with screw-in lift terminals

Design	Order no.	PU
white	**TRE202**	1

KNX radio switch actuator for plugs

Operating voltage	230 V~
Frequency	50 Hz
Switching current	16 A
230 V incandescent lamps and halogen lamps	2300 W
Conventional transformers	1600 VA
Electronic transformers and dual-mode transformers	1200 W
Radio reception frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of quicklink links	max. 20 transmitter/receiver
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Operating temperature	+0 ... +45 °C
Dimensions (W x H x D)	98 x 54 x 77 mm
Assembling height	41 mm

- low intrinsic energy requirement
- repeat function can be activated to increase the radio range
- reset function (to factory setting)
- quicklink functions: switching, 2 scenes, time switching, NO contact push-button
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: +6 scenes, operating mode on/off, forced control, status display
- with configuration and function LEDs
- with control LED for On/Off
- with configuration and function button
- with manual operation on/off
- scene opening via KNX radio appliances
- scene saving lockable
- toolless quicklink configuration using buttons and LED display

For remote-controlled switching of electrical loads.

Design	Order no.	PU
polar white matt	**TRC270D**	1

KNX radio switch actuator 1gang/binary input 1gang surface-mounted

IP55

Operating voltage	230 V~
Frequency	50 Hz
Switching current	10 A / 230 V AC1
230 V incandescent lamps and halogen lamps	1500 W
Fluorescent lamps:	
- uncompensated	600 VA
- with electronical ballast (EB)	6 x 58 W
Compact fluorescent lamps	6 x 18 W
Conventional transformers	600 VA
Electronic transformers	600 W
Radio transmission/reception frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of radio channels	1
Number of quicklink links	max. 20 transmitter/receiver
Radio transmission power	< 10 mW
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Operating temperature	-10 ... +55 °C
Dimensions (L x W x H)	150 x 85 x 35 mm

- low intrinsic energy requirement
- repeat function can be activated to increase the radio range
- reset function (to factory setting)
- quicklink functions: switching, 2 scenes, time switching, NO contact push-button, forced control
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: +6 scenes, operating mode on/off, 1 up/down button control, push-button, 2 x alarm, status display
- with configuration and function LEDs
- with transmission status and control LED for On/Off
- with configuration and function button
- with manual operation on/off
- scene opening via KNX radio appliances
- scene saving lockable
- toolless quicklink configuration using buttons and LED display
- with independent, mains supplied, binary input for potential-free contact
- Activation, for example through switch, push-buttons, timer
- with screw-in lift terminals

Design	Order no.	PU
white	**TRE400**	1

KNX radio switch actuator 1gang output flush-mounted

Operating voltage	230 V~
Frequency	50 Hz
Switching current	
230 V incandescent lamps and halogen lamps	2300 W
Fluorescent lamps:	
- parallel compensated	250 W
Conventional transformers	800 VA
Electronic transformers	1500 W
Radio transmission/reception frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of radio channels	1
Number of quicklink links	max. 20 transmitter/receiver
Radio transmission power	< 10 mW
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Operating temperature	+0 ... +45 °C
Binary cable length	≈ 20 cm
Binary cable length, extendable to	max. 5 m
Dimensions, sensor (Ø x H)	53 x 30 mm
IP	20

- low intrinsic energy requirement
- reset function (to factory setting)
- quicklink functions: switching, 2 scenes, time switching, NO contact push-button, forced control
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: +6 scenes, operating mode on/off, 1 up/down button control, push-button, 2 x alarm, status display
- ETS additional function: repeater function
- with configuration and function LEDs
- with transmission status and control LED for On/Off
- with configuration and function button
- scene opening via KNX radio appliances
- scene saving lockable
- toolless quicklink configuration using buttons and LED display
- with independent, mains supplied, binary input for potential-free contact
- Activation, for example through switch, push-buttons, timer
- confectioned, with 2-core cable
- for installation behind flush-mounted inserts
- with screw-in lift terminals

Design	Order no.	PU
white	**TRB201**	1

KNX radio switch actuator 1gang/binary input 1gang flush-mounted

Operating voltage	230 V~
Frequency	50 Hz
Switching current	
230 V incandescent lamps and halogen lamps	1500 W
Fluorescent lamps:	
- parallel compensated	11x 36 W /47 µF
Conventional transformers	800 VA
Electronic transformers	600 W
Radio transmission/reception frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of radio channels	1
Number of quicklink links	max. 20 transmitter/receiver
Radio transmission power	< 10 mW
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Operating temperature	+0 ... +45 °C
Binary cable length	≈ 20 cm
Binary cable length, extendable to	max. 5 m
Dimensions, sensor (Ø x H)	53 x 30 mm
IP	30

- low intrinsic energy requirement
- reset function (to factory setting)
- quicklink functions: switching, 2 scenes, time switching, NO contact push-button, forced control
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: +6 scenes, operating mode on/off, 1 up/down button control, push-button, 2 x alarm, status display
- ETS additional function: repeater function
- with configuration and function LEDs
- with transmission status and control LED for On/Off
- with configuration and function button
- scene opening via KNX radio appliances
- scene saving lockable
- toolless quicklink configuration using buttons and LED display
- with independent, mains supplied, binary input for potential-free contact
- Activation, for example through switch, push-buttons, timer
- confectioned, with 2-core cable
- for installation behind flush-mounted inserts
- with screw-in lift terminals

Design	Order no.	PU
white	**TRB501**	1

Dim actuators

KNX radio universal dim actuator 1gang flush-mounted

Operating voltage	230 V~
Frequency	50 Hz
230 V incandescent lamps and halogen lamps	20 ... 200 W
Conventional transformers	20 ... 200 VA
Conventional transformers	20 VA
Electronic transformers	20 ... 200 W
Radio reception frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of quicklink links	max. 20 transmitter/receiver
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Operating temperature	+0 ... +45 °C
Dimensions (Ø x H)	56 x 38 mm
IP	30

- low intrinsic energy requirement
- reset function (to factory setting)
- quicklink functions: dimming, 2 scenes, time switching, NO contact push-button
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: +6 scenes, operating mode on/off, dimming value, forced control, status display, brightness display, repeater function
- with configuration and function LEDs
- with control LED for On/Off
- with configuration and function button
- scene opening via KNX radio appliances
- scene saving lockable
- toolless quicklink configuration using buttons and LED display
- bulb-preserving soft startup
- phase cut-on or cut-off according to load type, self-learning
- short-circuit and overload proof (electronic fuse)
- with screw-in lift terminals

Design	Order no.	PU
light grey	**TRB210**	1

Blind actuators

KNX radio blind actuator 1gang surface-mounted

Operating voltage	230 V~
Frequency	50 Hz
Switching current	10 A / 230 V AC1
Radio reception frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of quicklink links	max. 20 transmitter/receiver
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Lamella adjustment on signal duration	< 1 s
Change-over time for change of direction	< 0.6 s
Operating temperature	-10 ... +55 °C
Dimensions (L x W x H)	150 x 85 x 35 mm
IP	55

- low intrinsic energy requirement
- repeat function can be activated to increase the radio range
- reset function (to factory setting)
- quicklink functions: blind, 2 scenes, forced control, up/down push-button
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: +6 scenes, operating mode, status display, 2 x alarm
- with configuration and function LEDs
- with control LED (relay closed)
- with configuration and function button
- with manual operation up/down
- scene opening via KNX radio appliances
- scene saving lockable
- toolless quicklink configuration using buttons and LED display
- with 2 mechanically and electrically mutually-locked relay contacts
- with screw-in lift terminals

Design	Order no.	PU
white	**TRE221**	1

KNX radio blind actuator 1gang output flush-mounted

Operating voltage	230 V~
Frequency	50 Hz
Switching current	6 A / 230 V AC1
Radio transmission/reception frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of radio channels	1
Number of quicklink links	max. 20 transmitter/receiver
Radio transmission power	< 10 mW
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Lamella adjustment on signal duration	< 1 s
Change-over time for change of direction	< 0.6 s
Operating temperature	+0 ... +45 °C
Conductor cross-section	0.75 mm² ... 2.5 mm²
Binary cable length	≈ 20 cm
Binary cable length, extendable to	max. 5 m
Dimensions (Ø x H)	53 x 27 mm
IP	20

- low intrinsic energy requirement
- reset function (to factory setting)
- quicklink functions: blind, 2 scenes, forced control, up/down push-button
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: +6 scenes, operating mode, 1 up/down button control, 2 x alarm, status display
- ETS additional function: repeater function
- with configuration and function LEDs
- with control LED (relay closed)
- with configuration and function button
- with manual operation up/down
- scene opening via KNX radio appliances
- scene saving lockable
- toolless quicklink configuration using buttons and LED display
- with 2 mechanically and electrically mutually-locked relay contacts
- with 2 independent, mains supplied, binary inputs for potential-free contacts
- Activation, for example through switch, push-button, timer, blind timer switch
- for installation behind flush-mounted inserts
- with 2 independent battery-supplied binary inputs for potential-free contacts
- with screw-in lift terminals

Design	Order no.	PU
light grey	**TRB221**	1

KNX radio blind actuator 1gang/binary input 2gang flush-mounted

Operating voltage	230 V~
Frequency	50 Hz
Switching current	6 A / 230 V AC1
Radio transmission/reception frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of radio channels	2
Number of quicklink links	max. 20 transmitter/receiver
Radio transmission power	< 10 mW
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Lamella adjustment on signal duration	< 1 s
Change-over time for change of direction	< 0.6 s
Operating temperature	+0 ... +45 °C
Conductor cross-section	0.75 mm² ... 2.5 mm²
Binary cable length	≈ 20 cm
Binary cable length, extendable to	max. 5 m
Dimensions (Ø x H)	53 x 27 mm
IP	30

- low intrinsic energy requirement
- reset function (to factory setting)
- quicklink functions: blind, 2 scenes, forced control, up/down push-button
- integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- ETS additional functions: +6 scenes, operating mode, 1 up/down button control, 2 x alarm, status display
- ETS additional function: repeater function
- with configuration and function LEDs
- with control LED (relay closed)
- with configuration and function button
- with manual operation up/down
- scene opening via KNX radio appliances
- scene saving lockable
- toolless quicklink configuration using buttons and LED display
- with 2 mechanically and electrically mutually-locked relay contacts
- with 2 independent, mains supplied, binary inputs for potential-free contacts
- Activation, for example through switch, push-button, timer, blind timer switch
- for installation behind flush-mounted inserts
- with 2 independent battery-supplied binary inputs for potential-free contacts
- with screw-in lift terminals

Design	Order no.	PU
light grey	**TRB521**	1

Power supply for KNX radio application modules

Power supply for KNX radio application module

Operating voltage	230 V~
Frequency	50/60 Hz
Power consumption (standby)	< 0.1 W
Operating temperature	-5 ... +45 °C
Screw terminals	max. 1 x 4/2 x 2,5 mm²
Insertion depth	22 mm
Housing installation depth	32 mm (claw guide)

Comprehensive transmission and reception functions, in conjunction with a KNX radio application module.

- low intrinsic energy requirement
- as supply for radio application modules
- no conductive connection between supporting ring and spreading claws
- with screw terminals

Suitable for	Order no.	Page
KNX radio buttons for switches/dimmers		page 52
KNX radio motion detector application modules		page 59
KNX radio blind covers		page 63
KNX radio timer quicklink	8574 52 ..	56

Design	Order no.	PU
Mains insert for KNX radio application module	**8502 01 00**	1

Gateways

KNX radio/TP gateway surface-mounted

Operating voltage over bus	30 V=
Radio transmission frequency	868.3 MHz
Radio protocol	KNX Radio
Transmitter duty cycle	1 %
Receiver category	2
Number of radio channel inputs	max. 512
Number of radio channel outputs	max. 512
Number of KNX radio device	max. 256/system
Radio transmission power	< 25 mW
Radio transmission range (free field)	max. 100 m
Radio transmission range (building)	max. 30 m
Operating temperature	+0 ... +45 °C
Dimensions (W x H x D)	77 x 203 x 26.5 mm

As line coupler for expansion of a KNX system with a KNX radio lead.

As programming interface: in purely KNX radio systems, the surface-mounted KNX radio/TP gateway can be removed after parameterisation.

Interface between KNX twisted pair products and KNX radio products.

- low intrinsic energy requirement
- bus connection via connecting terminal
- status indication using 2-digit red LED display
- large scope of functions of the KNX radio appliances through parameterisation with ETS
- with drilling template, fastening material, strain reliefs and connecting terminal

Design	Order no.	PU
polar white matt	**TR131A**	1

KNX radio solutions by Hager


Really
Very
Innovative

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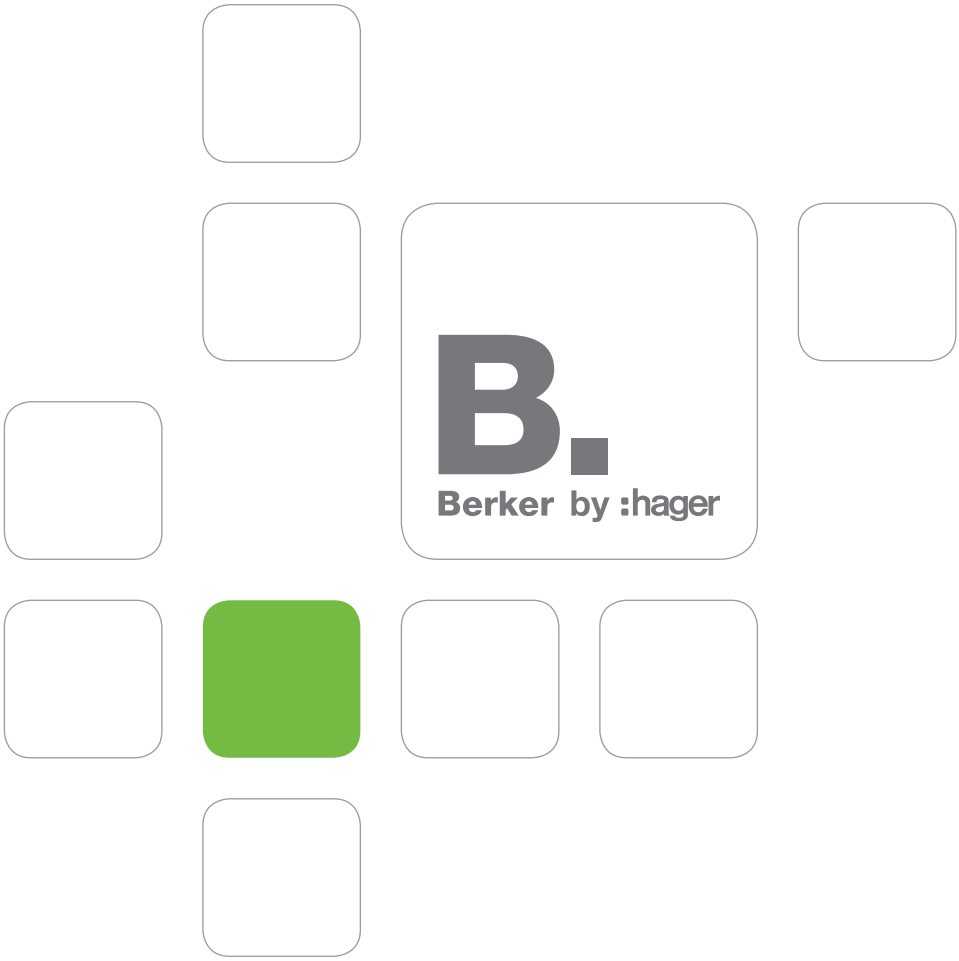

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