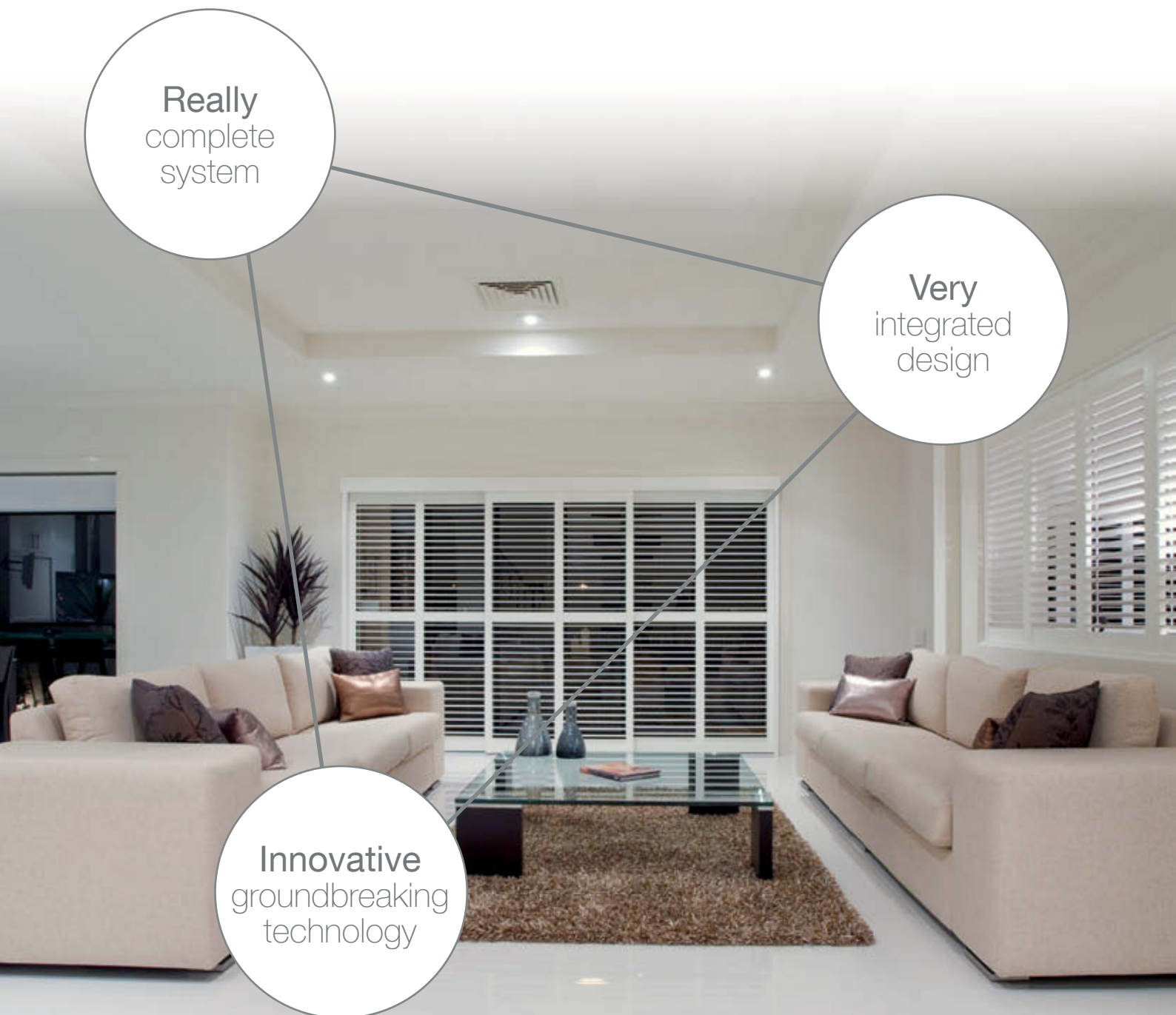


Berker by Hager electronics

Really
complete
system

Very
integrated
design

Innovative
groundbreaking
technology



Let's take a look...

9 + 16 > 400

Inserts


Application modules

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 **quicklink** 
- Intuitive operation, maximum operating comfort

and start again !

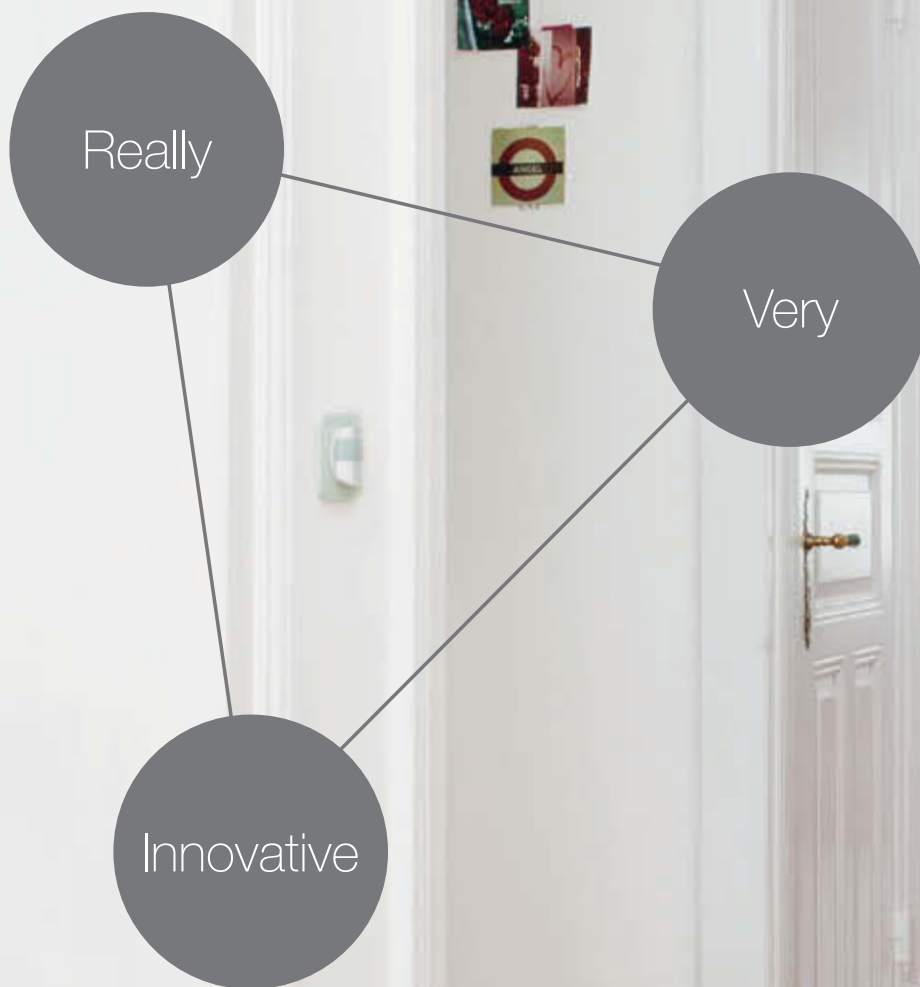
Really

Very

Innovative

Summary

Integrated design	Page	06 07
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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

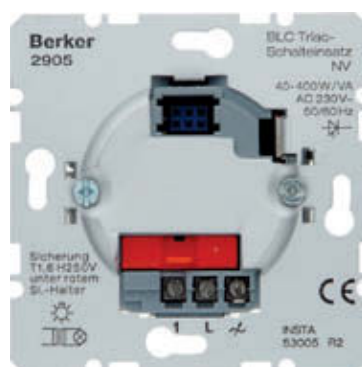


B.3
Motion detector

Less inserts innovative



BLC Tronic insert (R, C), 2916



BLC triac insert (R, L), 2905



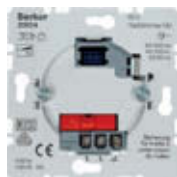
➔ Before



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

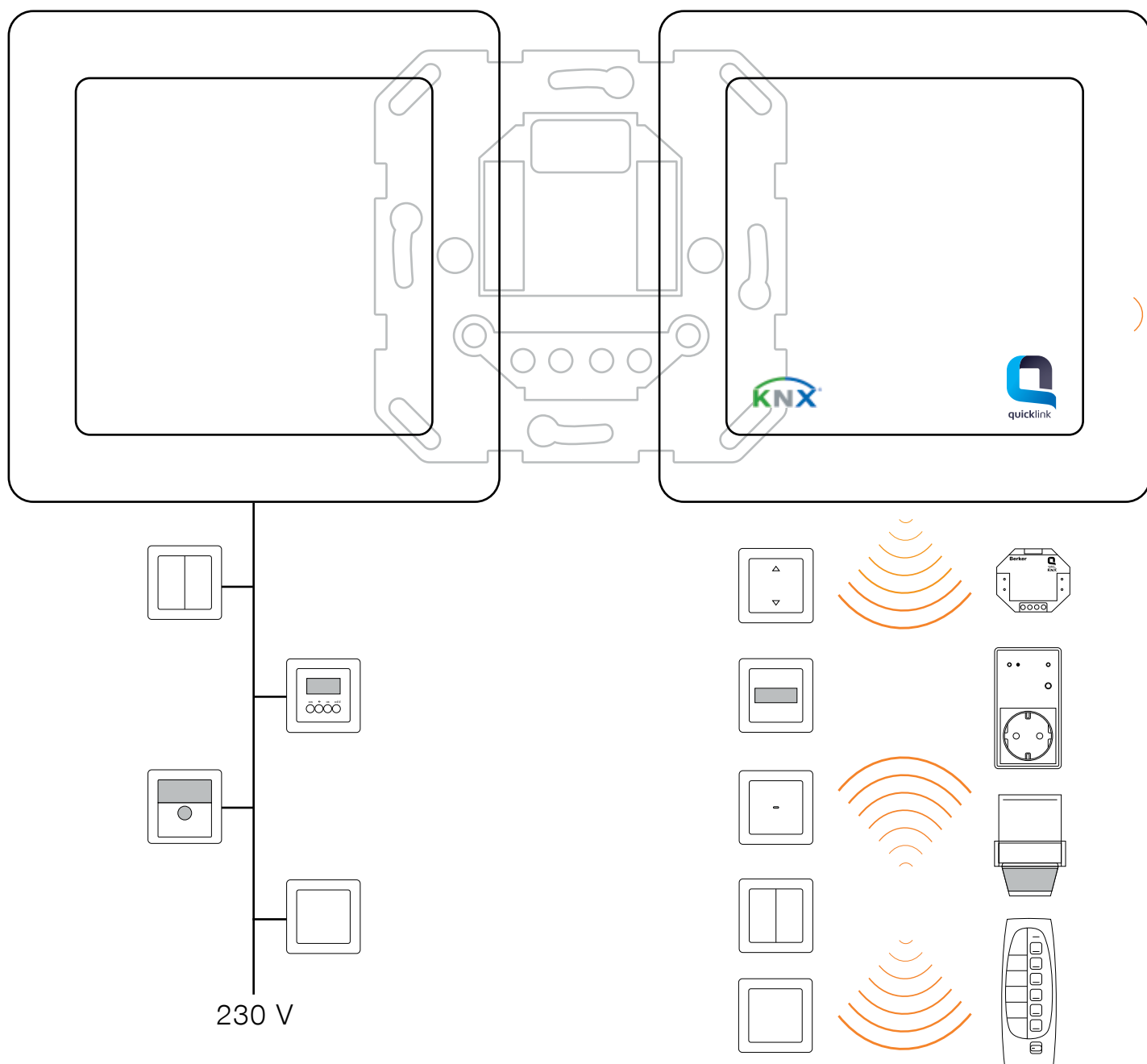


8532 01 00
Extension unit for
motion detector

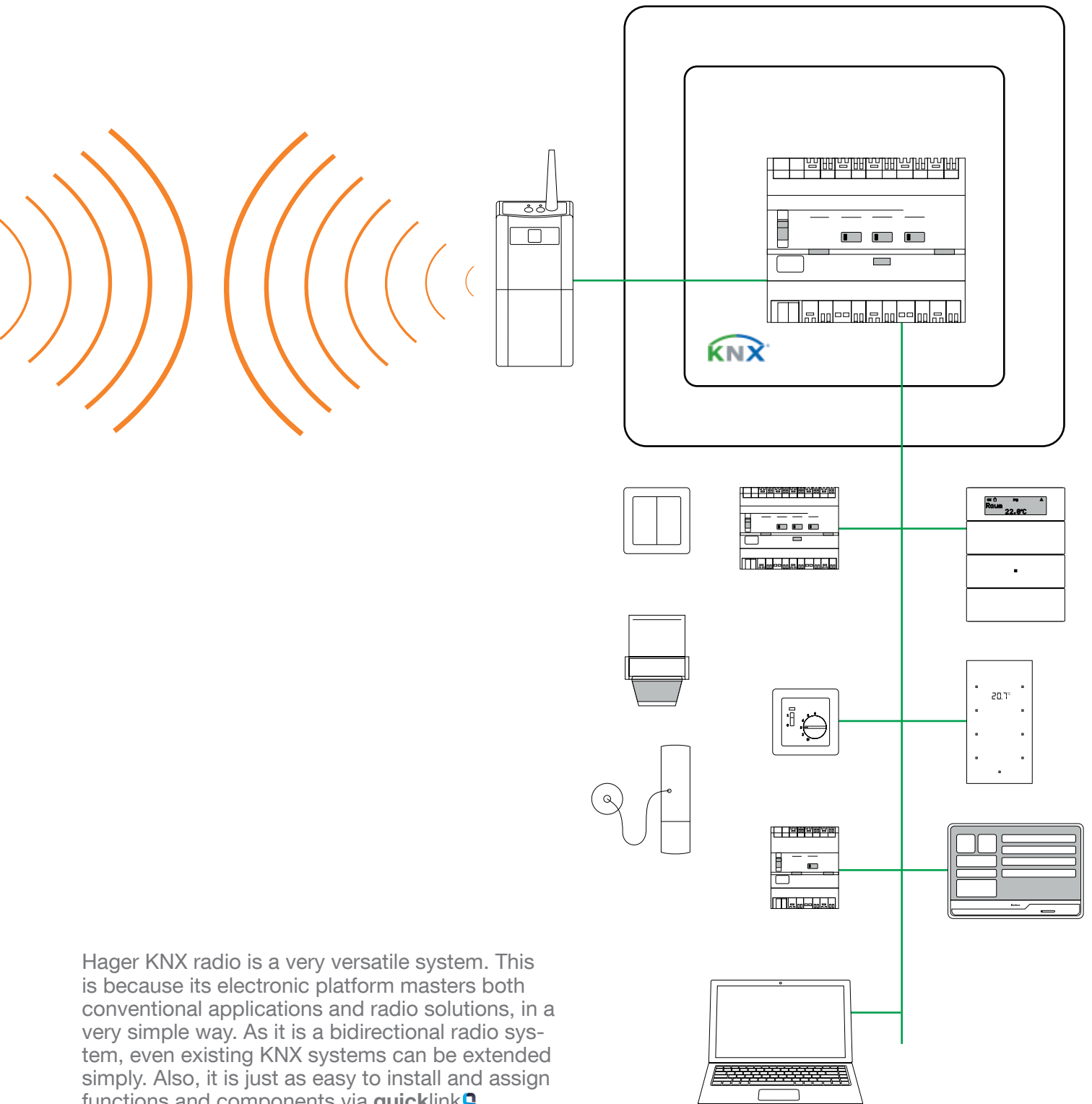
Flexible system


Conventional installation

Installation with radio network
commissioning with **quicklink**



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 **quicklink** .

Quick connection

Complicated configurations are a thing of the past. Now, you can define the functions of your devices quickly via **quicklink**. **quicklink** 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 **quicklink** - everything at the touch of a button and everything kept simple.



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

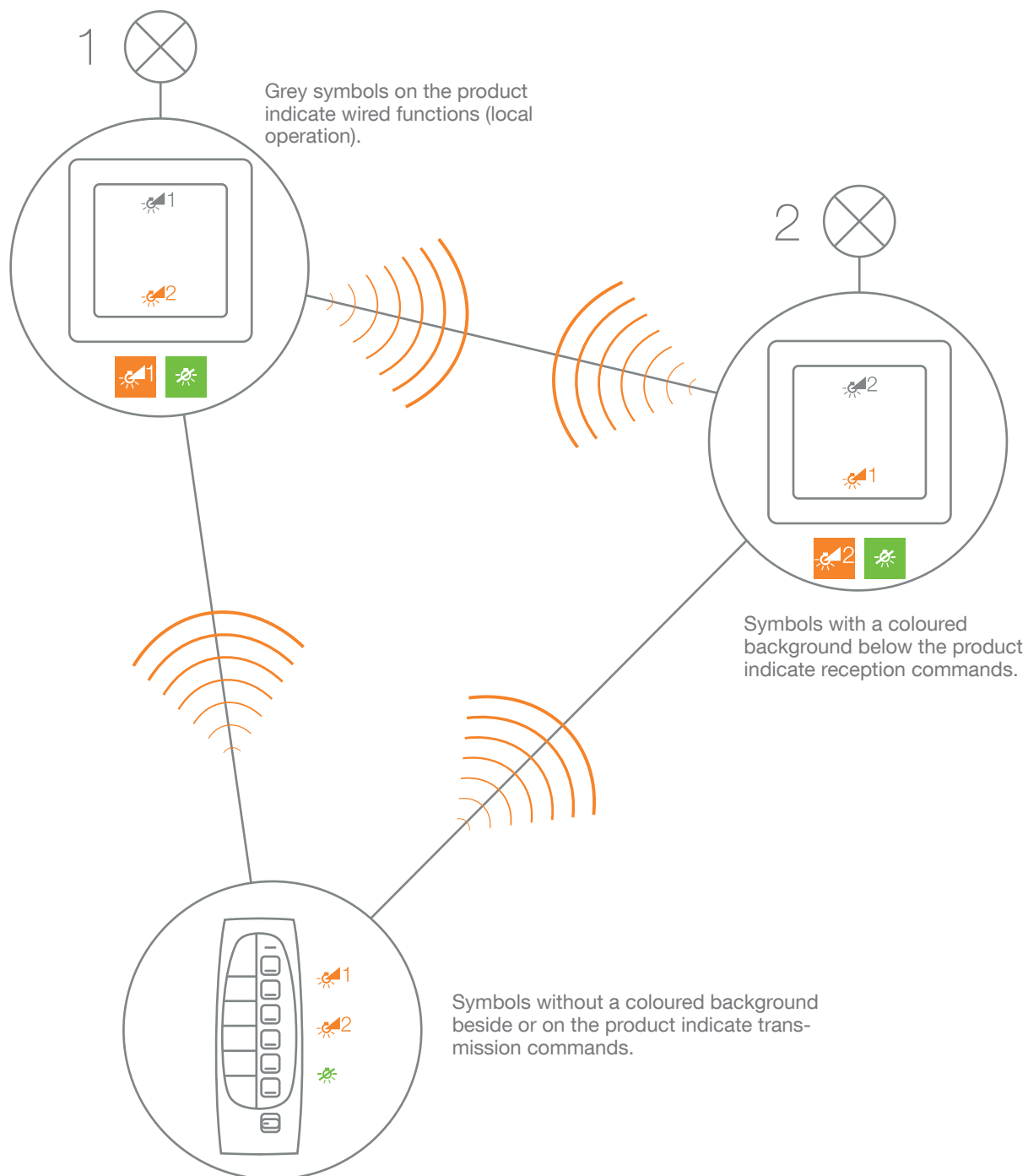
Press the cfg button of the transmitter briefly again. The "cfg" LEDs of the transmitter and all receivers go out. That just shows you how quick configuration is!

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



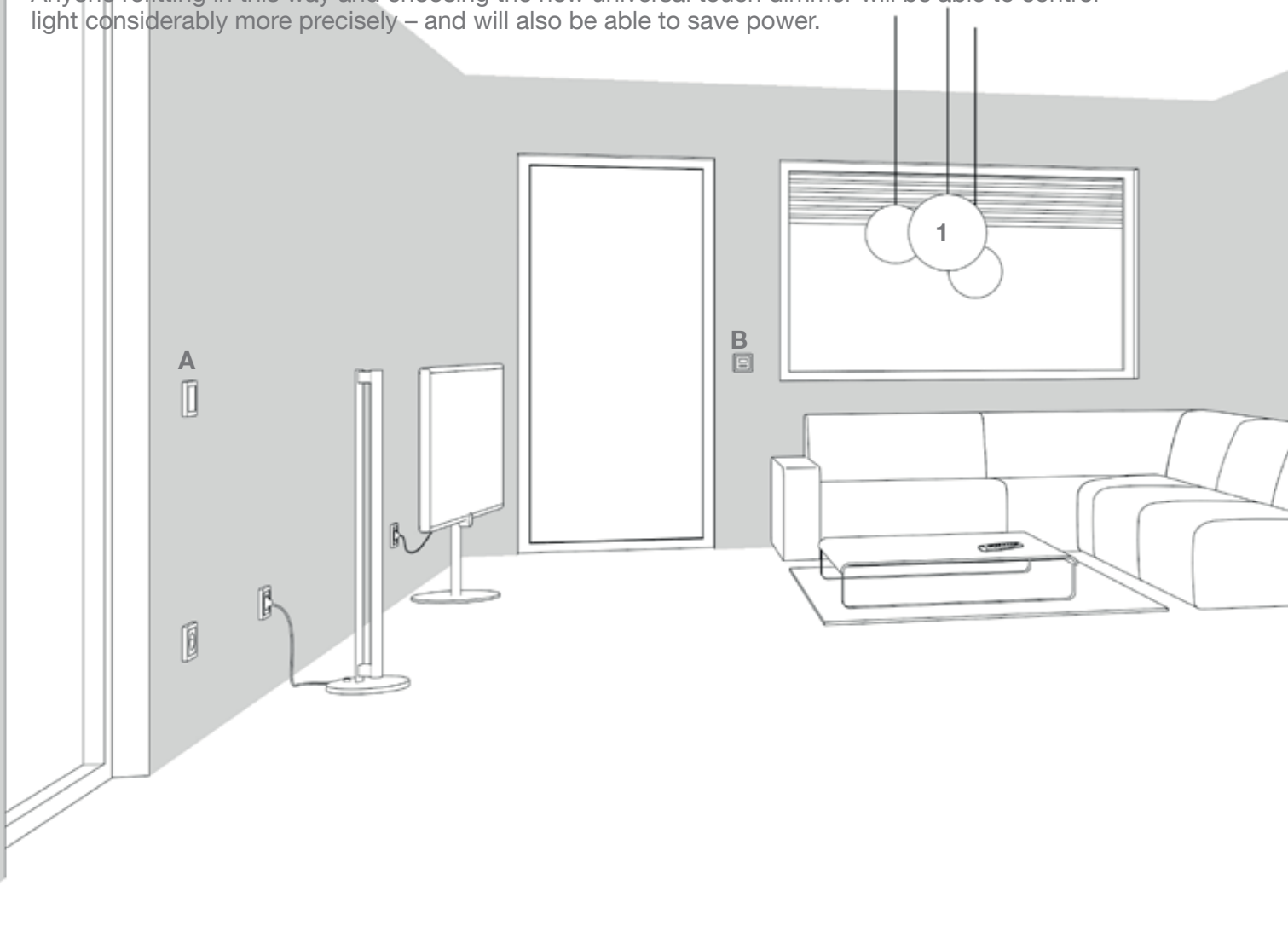
Application examples



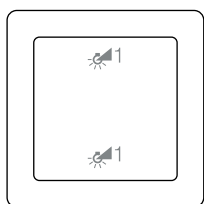


It's this simple: living room

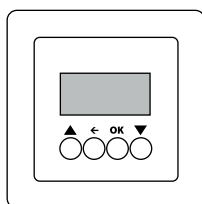
Replace the switch, insert the dimmer: Never before has it been this easy to combine increased lighting comfort with low energy consumption. As the first dimmer of its kind, the KNX radio universal touch dimmer can control almost all dimmable light sources, from LED and energy-saving lamps through incandescent 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.



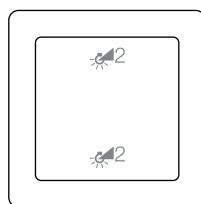
A Button, 1gang, on universal touch dimmer, 1gang



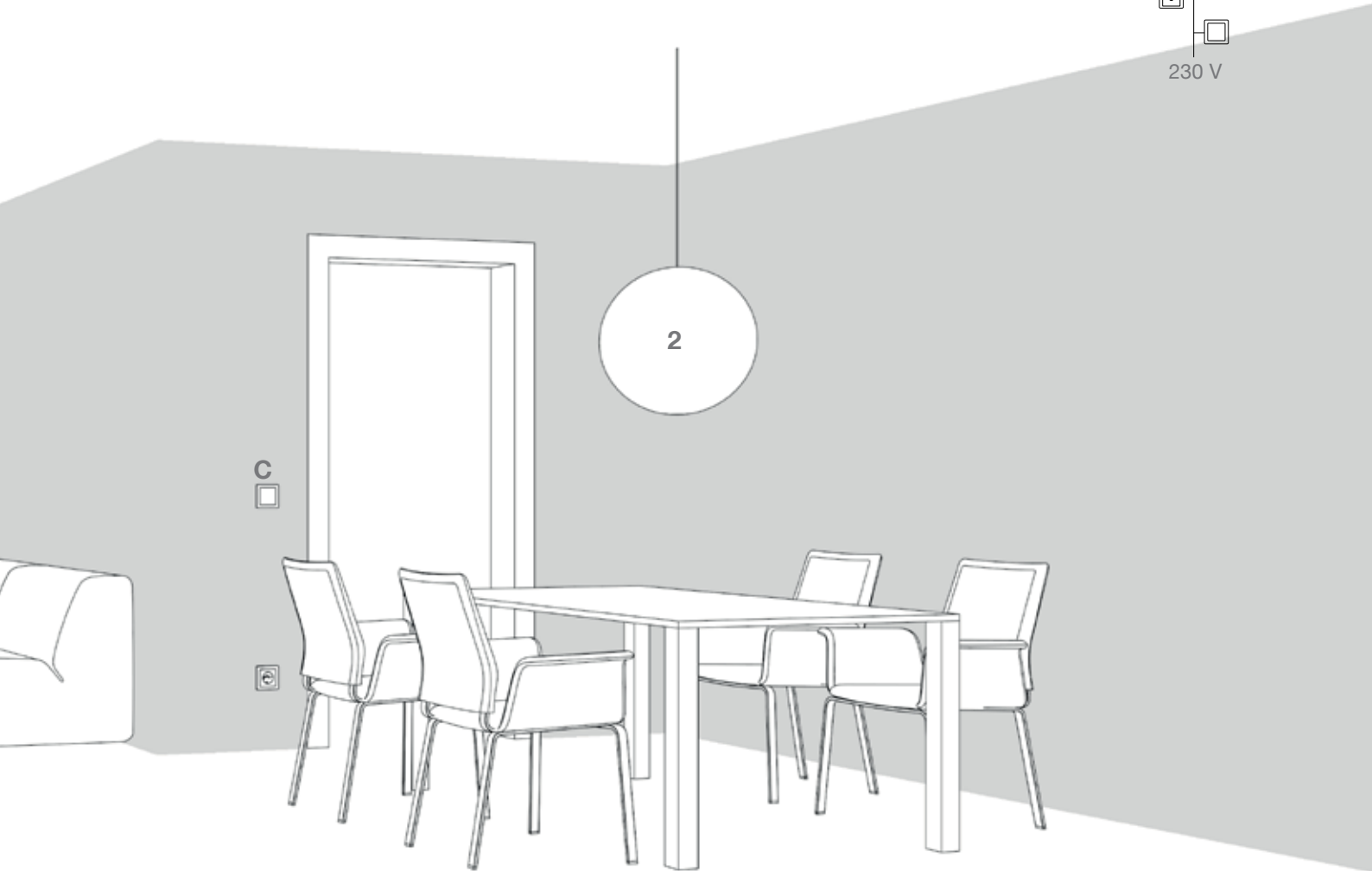
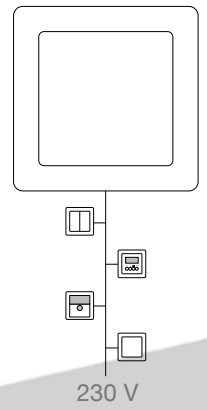
B Blind time switch on blind insert comfort



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

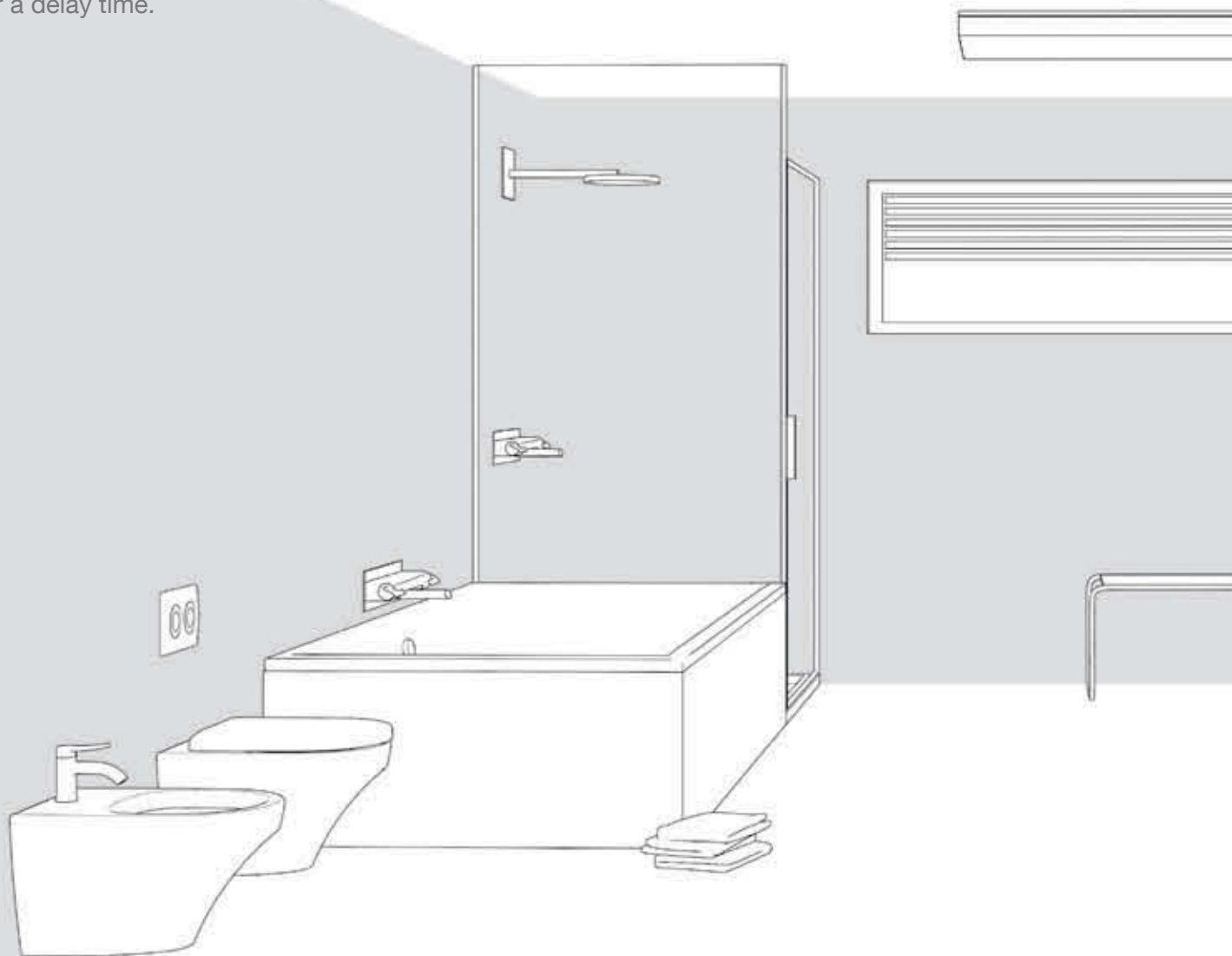


Conventional installation

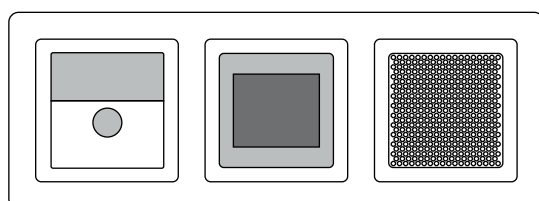


It's this simple: bathroom

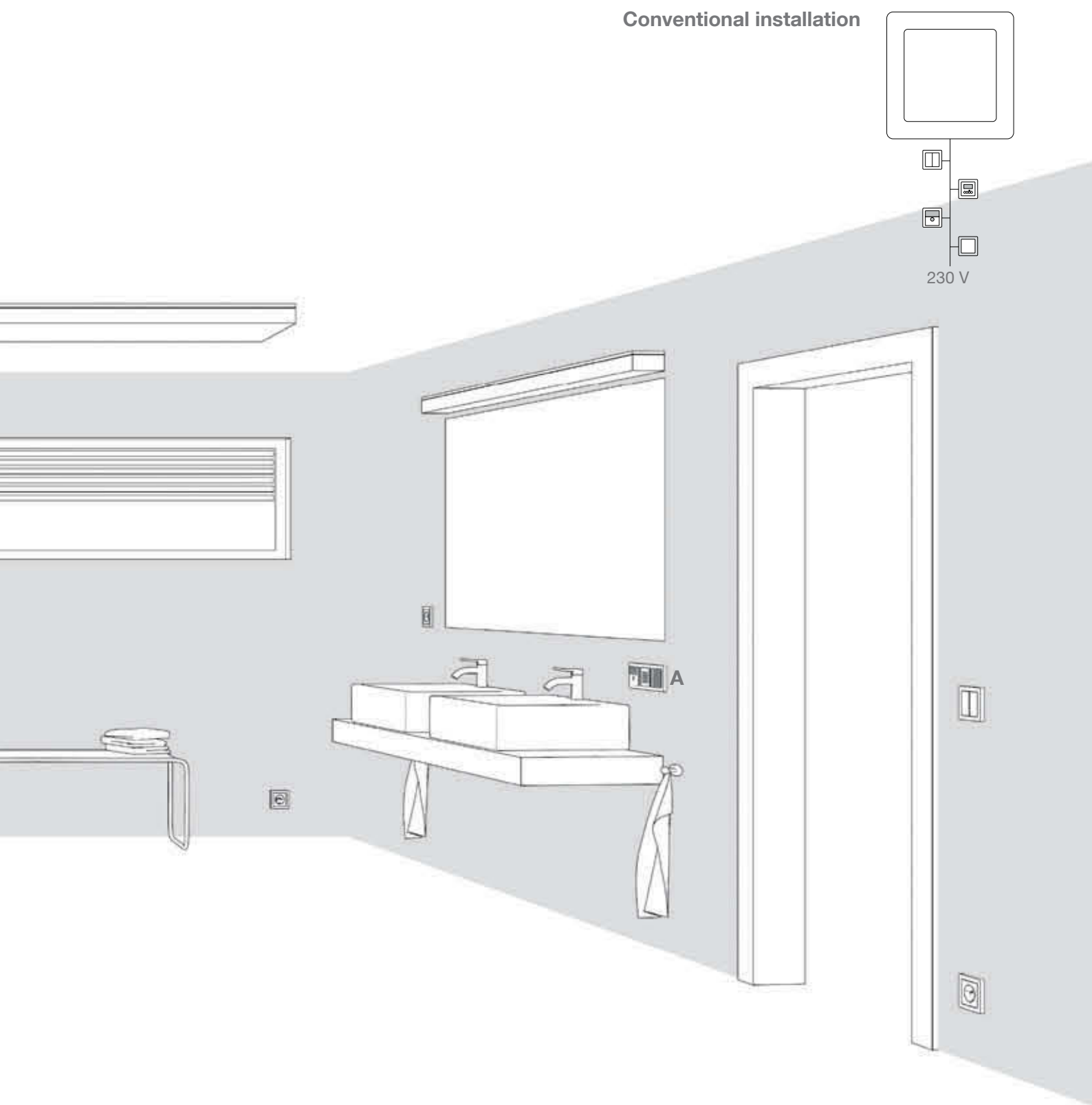
Getting all the information you need in the morning, and finishing off the evening with good music: Hager KNX radio makes it possible. In the bathroom, a motion detector switches the flush-mounted radio on as soon as you enter the room. When you leave the bathroom, it also switches the radio off again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



Radio in combination with motion detector
A on relay insert



Conventional installation

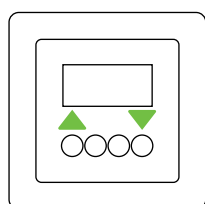


It's this simple: office / meeting room

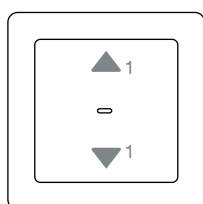
When a presentation is due to start, a room needs to be darkened quickly. In a meeting room, there are several options for this: centrally via a KNX radio blind timer, in a brightness-dependent manner using a KNX radio brightness sensor, manually using a KNX radio blind button or really simply, directly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



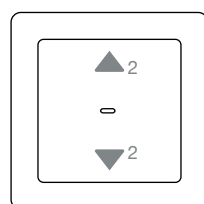
A KNX radio blind timer and mains insert for radio application module



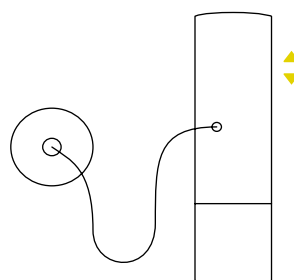
B KNX radio blind button on blind insert comfort



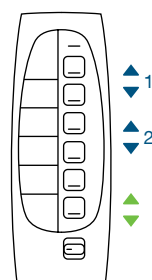
C KNX radio blind button on blind insert comfort



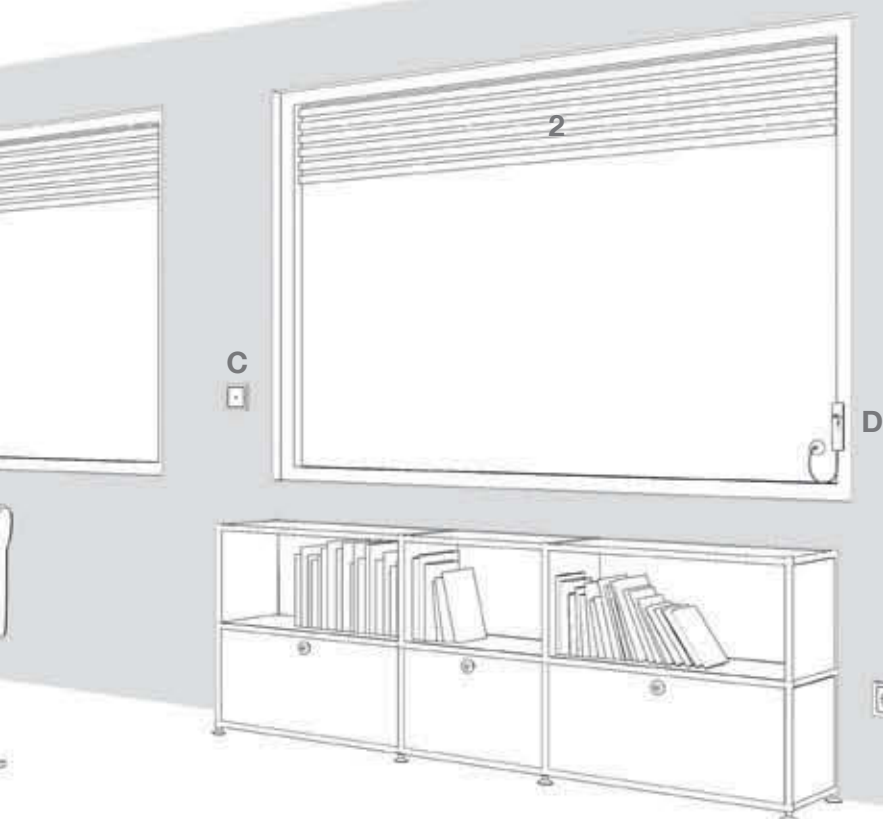
D KNX radio brightness sensor



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

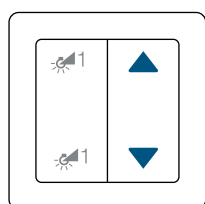
It's this simple: kitchen

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.

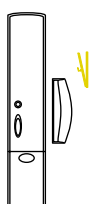
The KNX radio adapter plug ensures that this is not forgotten: Only when a window is open will it switch the plug and supply the extractor hood with voltage. Thus it always ensures that there is sufficient air and safety.



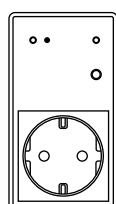
A KNX radio button, 4gang on universal touch dimmer, 2gang



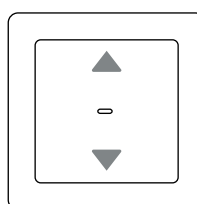
B KNX radio magnetic contact



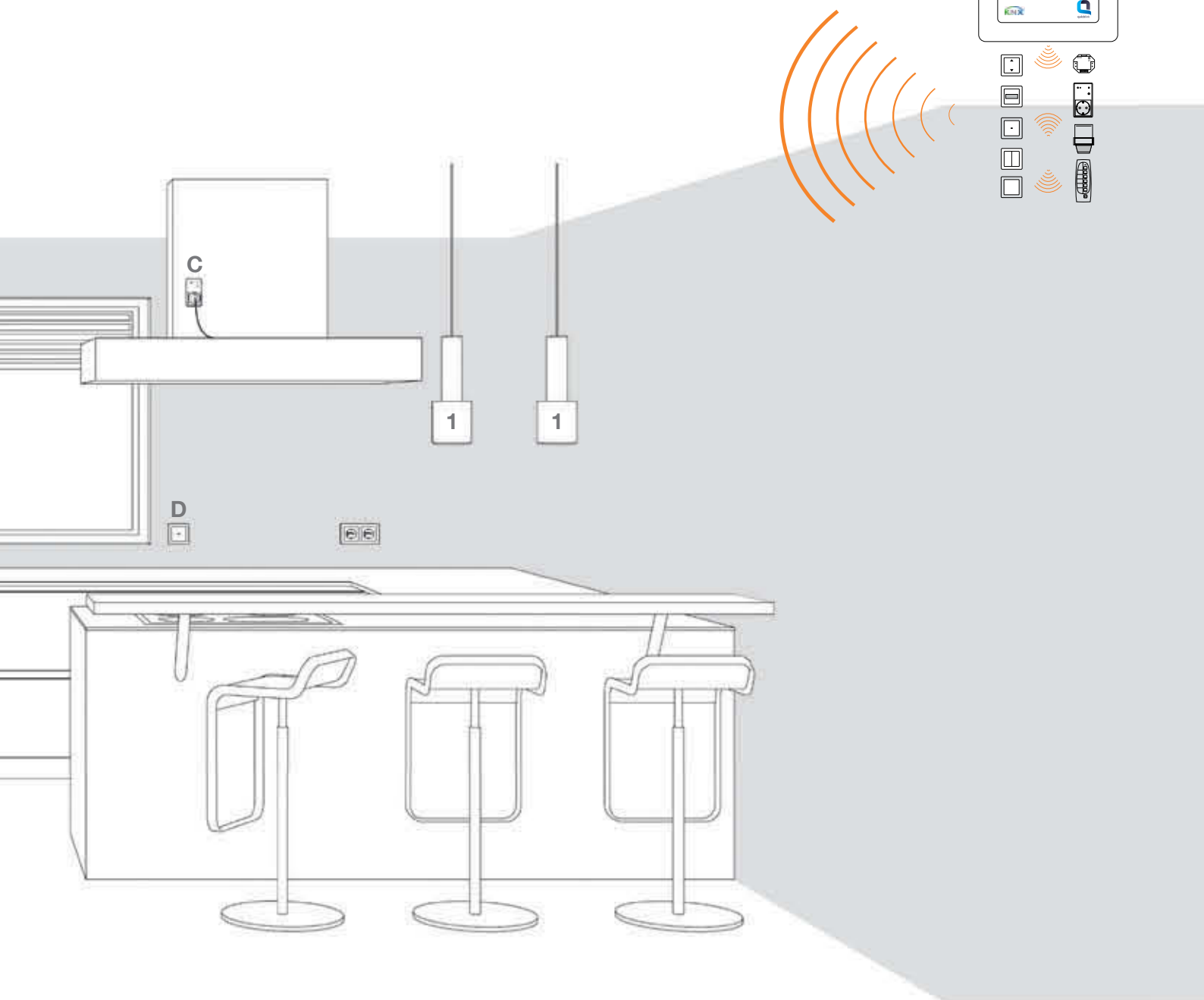
C KNX radio adapter plug







D KNX radio blind button on blind insert comfort



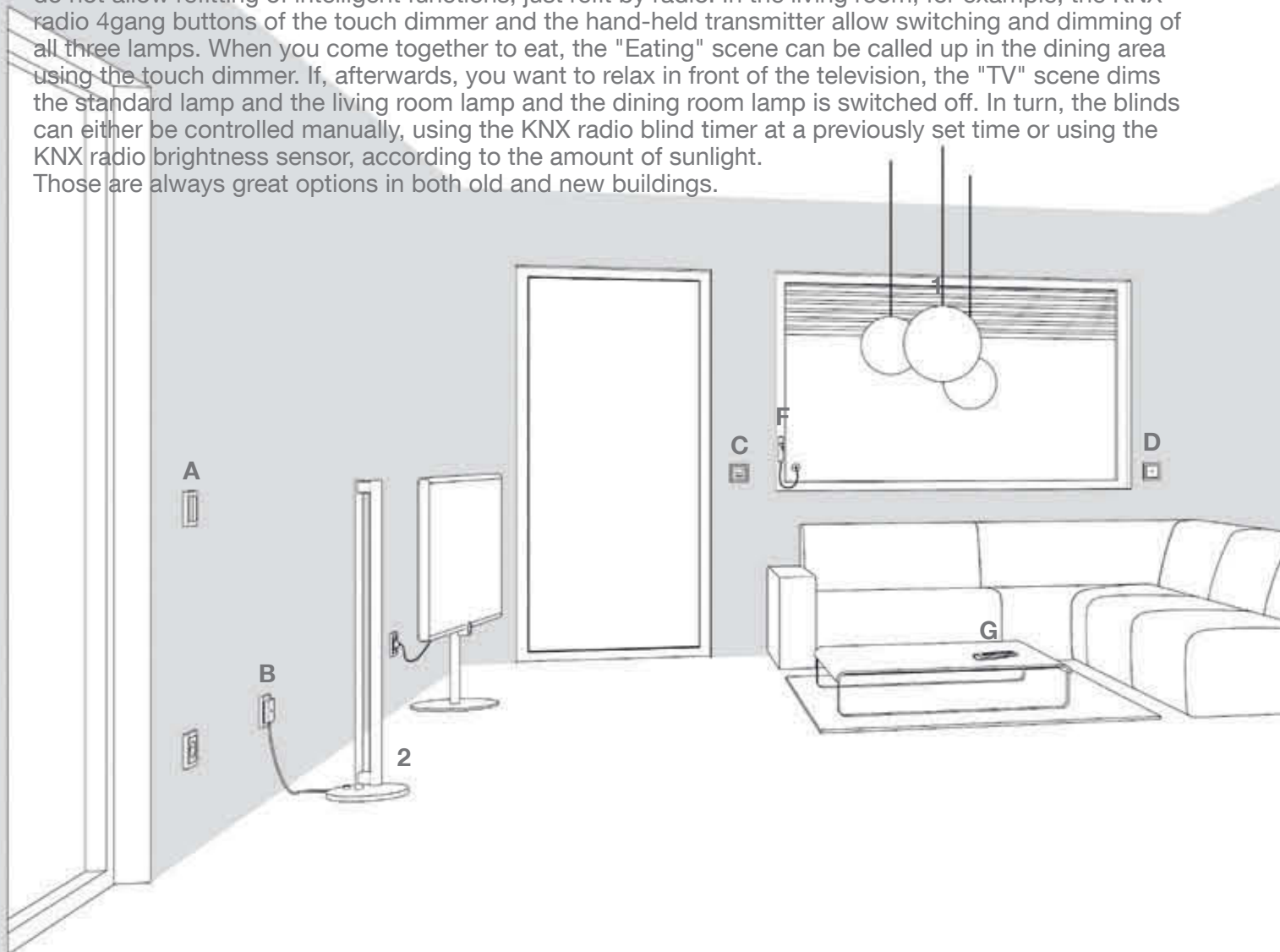
Installation with radio network Commissioning with quicklink



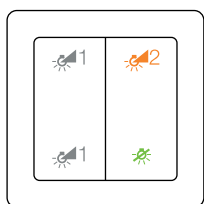
Transmit	Receive	Functional description
		Socket outlet: Connect mains
		Blind: Move up/down

It's this simple: living room

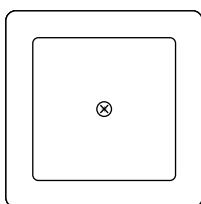
You can greatly expand your options through a radio-supported installation - particularly during the renovation or modernisation of existing buildings. In situations in which existing electrical installations do not allow refitting of intelligent functions, just refit by radio! In the living room, for 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.



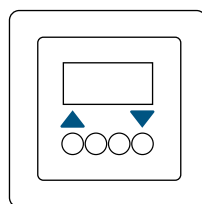
A KNX radio button, 4gang on universal touch dimmer, 1gang



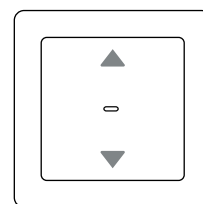
B Blind plug on KNX radio universal dim actuator, 1gang, flush-mounted



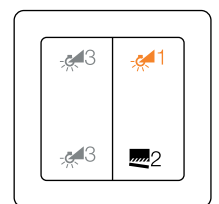
C KNX radio blind time switch on blind insert comfort



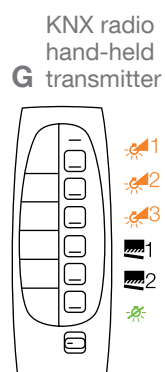
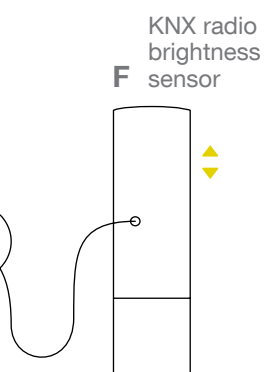
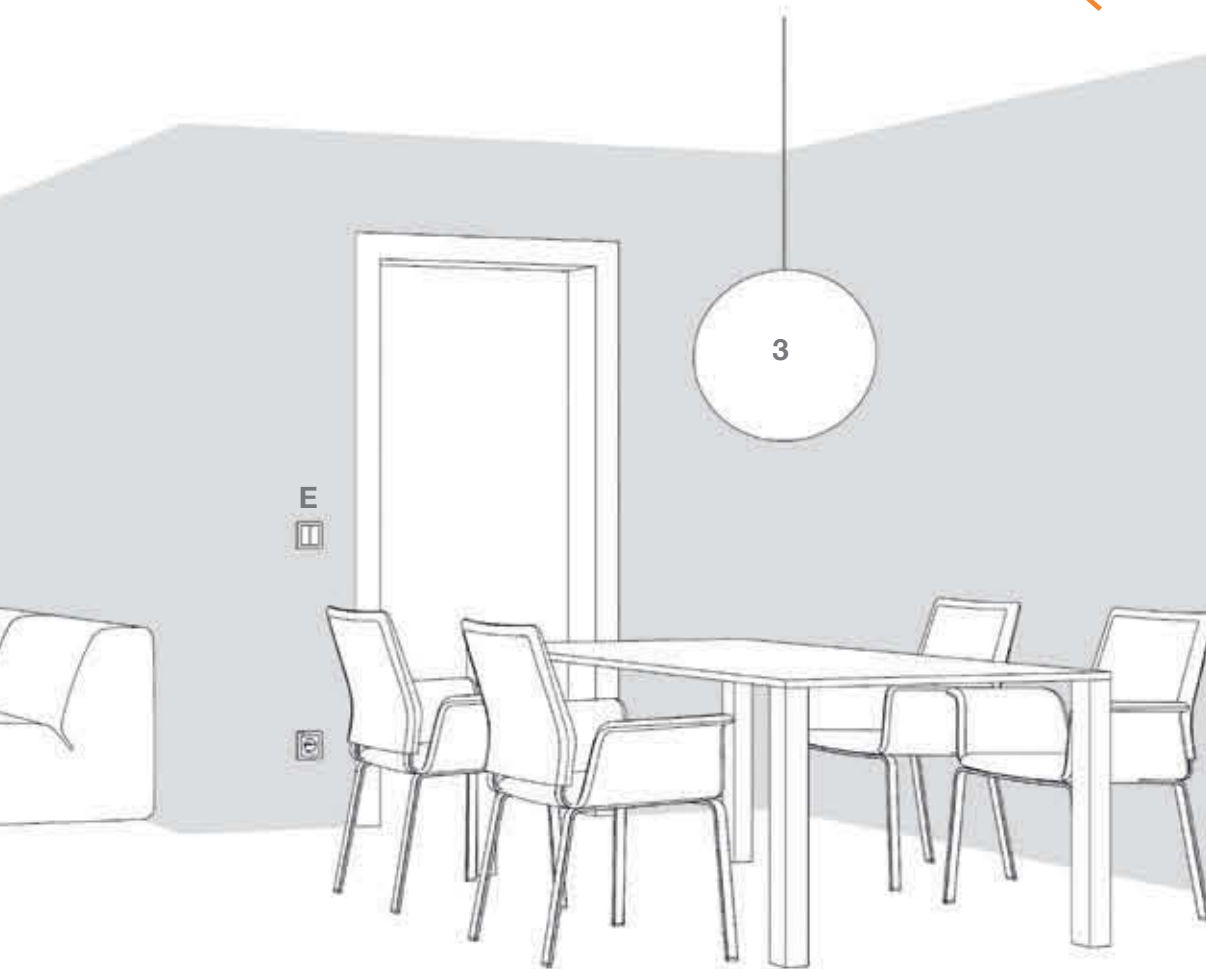
D KNX radio blind button on blind insert comfort



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



Installation with radio network Commissioning with quicklink



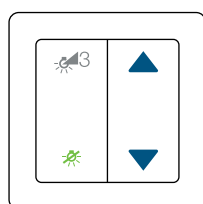
Transmit	Receive	Functional description
		Ceiling lamp, living room: Switch on/off and dim brighter/darker
		Standard lamp, living room: Switch on/off and dim brighter/darker
		Ceiling lamp, living room: Switch on/off and dim brighter/darker
		Blind: Move up/down
		Blind: Move up/down, sun protection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

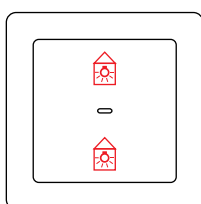
A great example for the wide range of options of Hager KNX radio: The touch dimmers and the wall transmitters can control the ceiling lamp, switch light sources off centrally and raise and lower roller shutters. Just like in a hotel room, the wall transmitters can switch and dim the bedside/ceiling light 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).



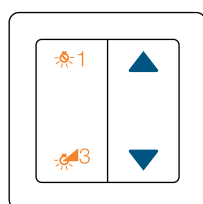
A KNX radio button, 4gang on universal touch dimmer, 1gang



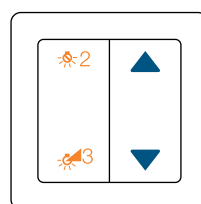
B KNX radio wall transmitter



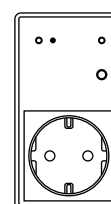
C KNX radio wall transmitter, 2gang



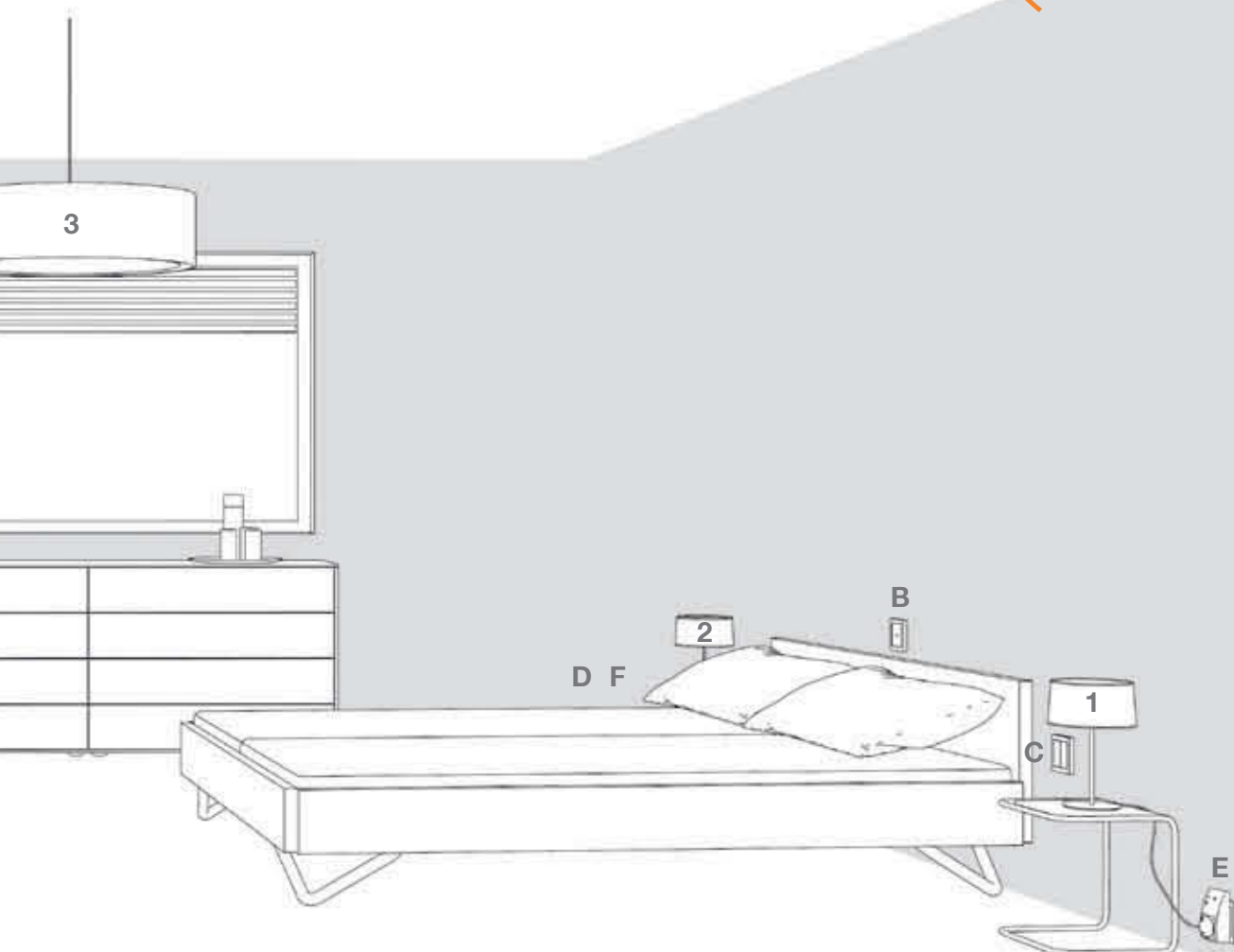
D KNX radio wall transmitter, 2gang



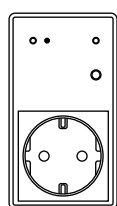
E KNX radio adapter plug



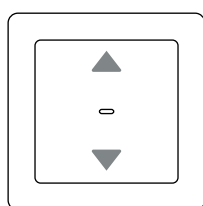
Installation with radio network Commissioning with quicklink



F KNX radio adapter plug



G KNX radio blind button on blind insert comfort



Transmit



Receive



Functional description

Ceiling lamp: Switch on/off and dim brighter/darker

Bedside lamp 1: Switch on/off

Bedside lamp 2: Switch on/off

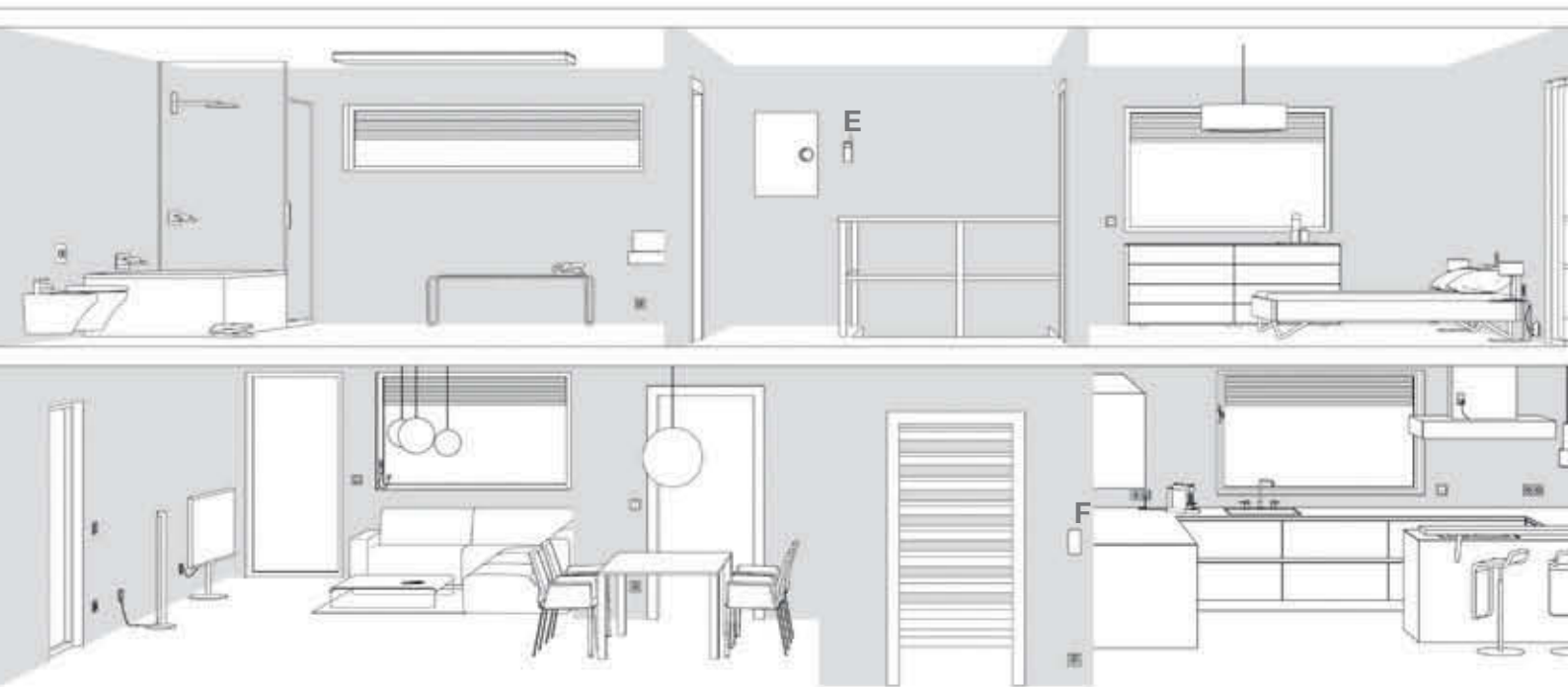
Blind: Move UP / Move DOWN

Central function: Switch all lamps on/off

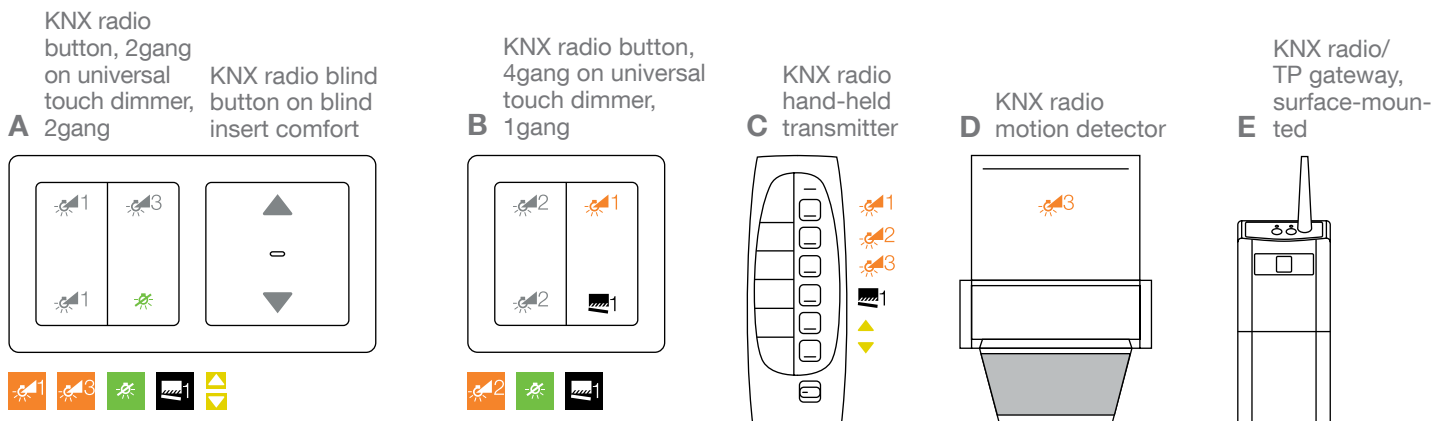
Central function: Panic switch for all lamp in the building: Switch on/off

It's this simple: KNX extension

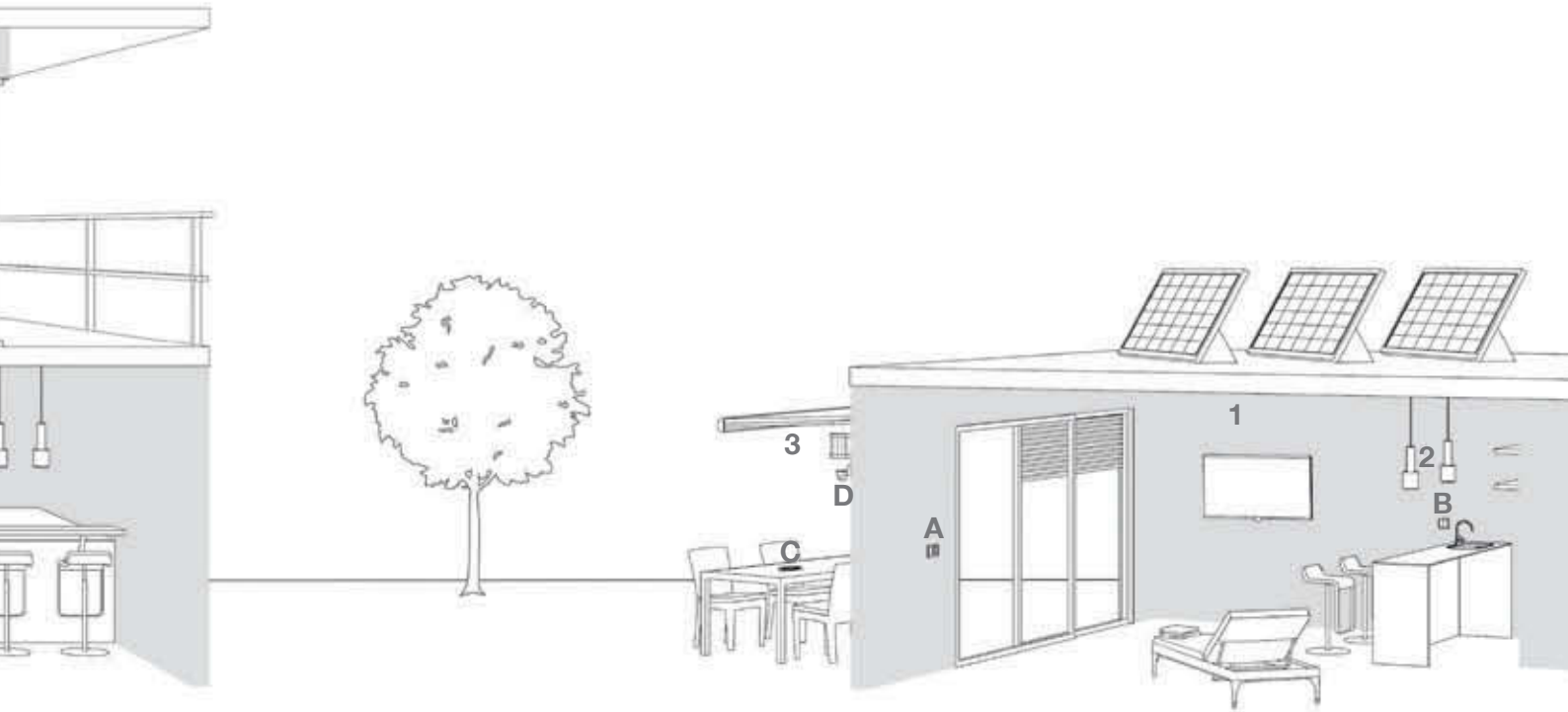
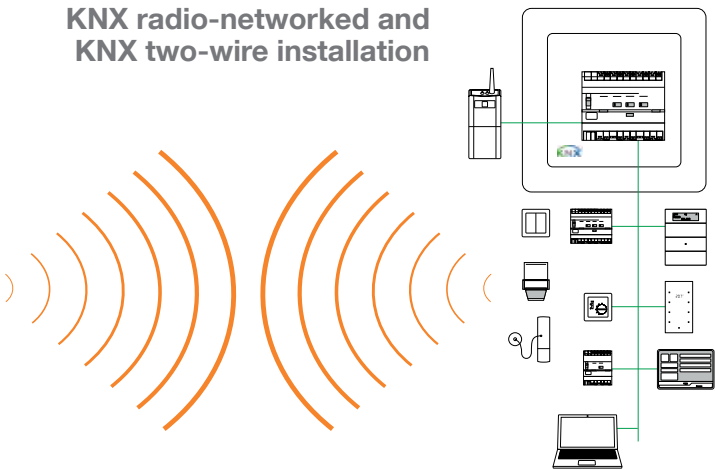
Even with existing KNX systems: Hager KNX radio provides quick, cost effective comfort updates without any extra construction work. If, for example, a summerhouse is built on an existing property, then you can simply equip the new premises with Hager KNX radio devices. A surface-mounted KNX radio/TP 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

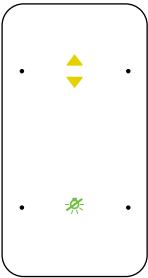














KNX radio-networked and KNX two-wire installation



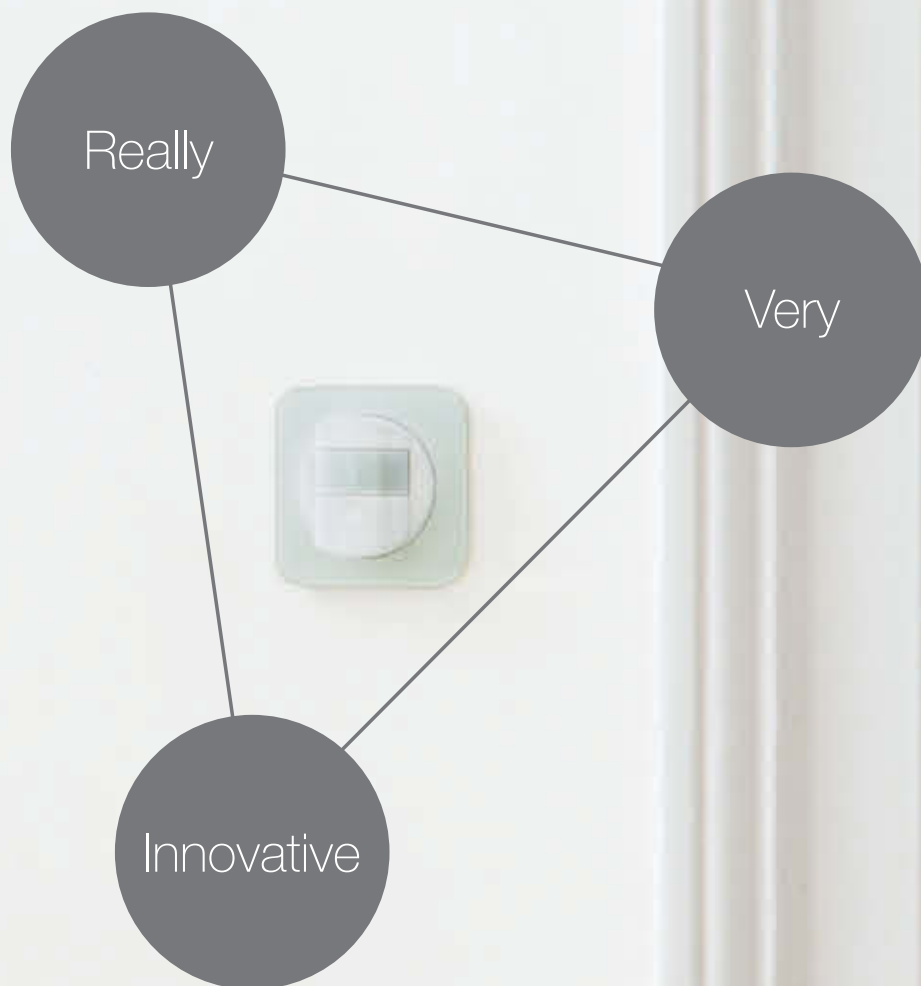
Summerhouse built at a later time, with energy independence through solar modules, connected with the main building via KNX radio **quicklink**

Touch sensor,
F 2gang comfort



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

Catalogue excerpt



GAIET



Combination overview

Conventional and KNX radio quicklink

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~	– low intrinsic energy requirement
Frequency	50/60 Hz	– also usable as push-button relay switch
Power consumption (standby)	< 0.3 W	– with extension unit input for push-button (NO contact), single-surface operation and motion detector extension unit
230 V incandescent lamps and halogen lamps	2300 W	– no conductive connection between supporting ring and spreading claws
230 V retrofit LED lamps	440 W	– with screw terminals
Dimmable energy-saving lamps	440 W	
Fluorescent lamps:		
- uncompensated	1100 VA	
- parallel compensated	1000 W /130 µF	
- in Duo circuit	1000 W	
- with electronic 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 mm ²	
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.

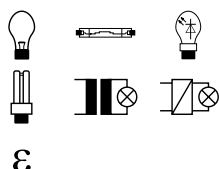
Design	Order no.	PU
Relay insert	8512 12 00	1



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 mm ²
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

Switch insert 1gang

Order no.

8512 11 00

PU

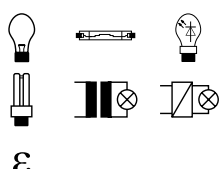
1



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 mm ²
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

Switch insert 2gang

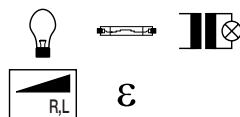
Order no.

8512 22 00

PU

1

Dimmer inserts

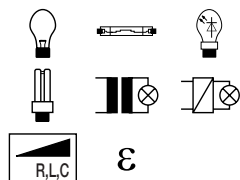


Touch dimmer (R, L)

Operating voltage	230 V~	– low intrinsic energy requirement
Frequency	50/60 Hz	– switch-on brightness level can be stored safe after power failure
Power consumption (standby)	< 0.3 W	– bulb-preserving soft startup
230 V incandescent lamps and halogen lamps	25 ... 400 W	– phase cut-on
Dimmable conventional transformers	25 ... 400 VA	– short-circuit and overload proof (electronic fuse)
Number of universal capacity enhancers	max. 2	– with extension unit input for push-button (NO contact) with single-surface operation and motion detector extension unit
Operating temperature	-5 ... +45 °C	– expandable with universal power boosters RMD Plus
Number of substations	unlimited	– no conductive connection between supporting ring and spreading claws
Cable length, extensions	max. 50 m	– with screw terminals
Load cable length	max. 100 m	
Screw terminals	max. 2 x 1,5/1 x 2,5 mm ²	
Insertion depth	32 mm	

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



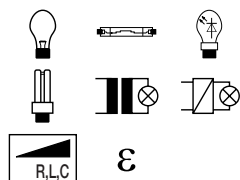
Universal touch dimmer 1gang

Operating voltage	230 V~	– low intrinsic energy requirement
Frequency	50/60 Hz	– bulb-preserving soft startup
Power consumption (standby)	< 0.3 W	– automatic setting to dimmable loads (autoDetect process)
230 V incandescent lamps and halogen lamps	25 ... 400 W	– phase cut-on or cut-off according to load type, self-learning
Dimmable 230 V retrofit LED lamps	5 ... 70 W	– short-circuit and overload proof (electronic fuse)
Dimmable energy-saving lamps	13 ... 80 W	– Optimisation of the dimming performance by fine adjustment of the load type and special adjustment mode
Dimmable conventional transformers	25 ... 400 VA	– with extension unit input for push-button (NO contact) with single-surface operation and motion detector extension unit
Electronic transformers and dual-mode transformers	25 ... 400 W	– no conductive connection between supporting ring and spreading claws
Operating temperature	-5 ... +45 °C	– with screw terminals
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 mm ²	
Insertion depth	32 mm	

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 mm ²
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
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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
Operating temperature

- via insert
-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
Order no.		PU

Design

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

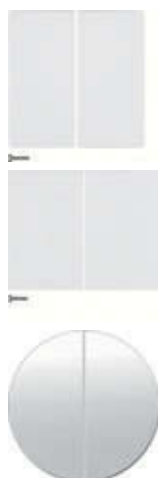
polar white velvety	8514 21 29	1
anthracite velvety, lacquered	8514 21 26	1

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~	– low intrinsic energy requirement
Frequency	50/60 Hz	– also usable as push-button relay switch
Power consumption (standby)	< 0.3 W	– with extension unit input for push-button (NO contact), single-surface operation and motion detector extension unit
Minimum contact load	≈ 15 W	
230 V incandescent lamps and halogen lamps	2300 W	– no conductive connection between supporting ring and spreading claws
230 V retrofit LED lamps	440 W	– with screw terminals
Dimmable energy-saving lamps	440 W	
Fluorescent lamps:		
- uncompensated	1100 VA	
- parallel compensated	1000 W /130 µF	
- with electronic 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 mm ²	
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.



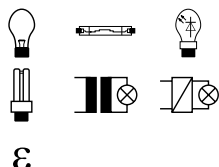
Design	Order no.	PU
Relay insert	8512 12 00	1



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 mm ²
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

Switch insert 1gang

Order no.

8512 11 00

PU

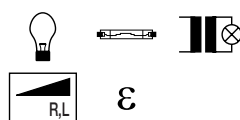
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Touch dimmer (R, L)

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 mm ²
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

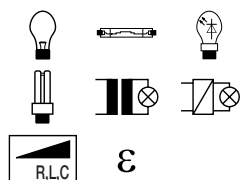
Touch dimmer (R, L)

Order no.

8542 11 00

PU

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 mm ²
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 mm ²
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	– low intrinsic energy requirement
Short time mode	200 ms	– with memory function for presence simulation
immunity time	≈ 10 s	– teach function for response brightness via button
Nominal mounting height	1.1 m	– with keylock
Range, frontal	≈ 12 m	– party function for switching on for 2 hours
Range, side	each ≈ 8 m	– LED application module/insert compatibility display
Detection field, rectangular shaped	≈ 12 x 16 m	– with operation and status LED, red/green/orange
Response sensitivity, settable	≈ 10 ... 100 %	– with button for on/off/automatic
Response brightness, adjustable	≈ 5 ... 1000 lx, ∞ lx (day)	– µ-processor controlled mode of operation
Operating temperature	-5 ... +45 °C	– step operation with immunity time (e.g. for stair light/ impact current circuits)
Assembling height	34 mm	– with anti-dismantling protection

Continuous direct sunlight penetrating the upward-pointing detection plane can result in failure of the motion detector.

Only suitable for indoor areas!

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	– low intrinsic energy requirement
Short time mode	200 ms	– with memory function for presence simulation
immunity time	≈ 10 s	– teach function for response brightness via button
Nominal mounting height	2.2 m	– with keylock
Range, frontal	≈ 8 m	– party function for switching on for 2 hours
Range, side	each ≈ 6 m	– LED application module/insert compatibility display
Detection field, rectangular shaped	≈ 8 x 12 m	– with operation and status LED, red/green/orange
Response sensitivity, settable	≈ 10 ... 100 %	– with button for on/off/automatic
Response brightness, adjustable	≈ 5 ... 1000 lx, ∞ lx (day)	– μ-processor controlled mode of operation
Operating temperature	-5 ... +45 °C	– step operation with immunity time (e.g. for stair light/ impact current circuits)
Assembling height	34 mm	– 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	– low intrinsic energy requirement
Nominal mounting height	1.1 m	– with memory function for presence simulation
Range, frontal	≈ 12 m	– teach function for response brightness via button
Range, side	each ≈ 8 m	– with keylock
Detection field, rectangular shaped	≈ 12 x 16 m	– party function for switching on for 2 hours
Response sensitivity, settable	≈ 10 ... 100 %	– LED application module/insert compatibility display
Response brightness, adjustable	≈ 5 ... 1000 lx, ∞ lx (day)	– with operation and status LED, red/green/orange
Operating temperature	-5 ... +45 °C	– with button for on/off/automatic
Assembling height	34 mm	– 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	– low intrinsic energy requirement
Nominal mounting height	2.2 m	– with memory function for presence simulation
Range, frontal	≈ 8 m	– teach function for response brightness via button
Range, side	each ≈ 6 m	– with keylock
Detection field, rectangular shaped	≈ 8 x 12 m	– party function for switching on for 2 hours
Response sensitivity, settable	≈ 10 ... 100 %	– LED application module/insert compatibility display
Response brightness, adjustable	≈ 5 ... 1000 lx, ∞ lx (day)	– with operation and status LED, red/green/orange
Operating temperature	-5 ... +45 °C	– with button for on/off/automatic
Assembling height	34 mm	– 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



μ

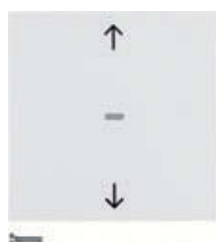
Blind insert comfort

Operating voltage	230 V~	– low intrinsic energy requirement
Frequency	50/60 Hz	– with 2 mechanically and electrically mutually-locked relay contacts
Switching current (ohmic/ inductive)	max. 5 A	– with 230 V extension unit inputs for up and down
Power consumption (standby)	< 0.1 W	– for single, group and master controls
Change-over time for change of direction	< 0.6 s	– no conductive connection between supporting ring and spreading claws
Operating temperature	-5 ... +45 °C	– circuiting of extension units push-buttons for blinds, blind inserts, key push-buttons for blinds
Number of substations	unlimited	– with screw terminals
Cable length, extensions	max. 50 m	
Load cable length	max. 100 m	
Screw terminals	max. 2 x 1,5/1 x 2,5 mm ²	
Housing installation depth	22 mm	
Claw guidance installation depth	32 mm	
Switching current at cos φ = 0.6	max. 3 A	



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

Blind covers



Blind button

Venetian blind movement time	2 min	– low intrinsic energy requirement
Delay time, adjustable	0 s ... 500 s	– memory function for automatic execution of learned up and down times with position
Minimum slat adjustment time	≈ 150 ms	– party function, no execution of automatic, radio and extension unit commands (lock-out protection)
Change-over time for change of direction	< 0.6 s	– LED application module/insert compatibility display
Operating temperature	-5 ... +45 °C	– 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

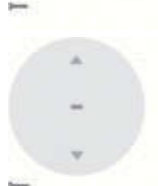
polar white velvety	8524 11 29	1
anthracite velvety, lacquered	8524 11 26	1

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~	– low intrinsic energy requirement
Frequency	50/60 Hz	– also usable as push-button relay switch
Power consumption (standby)	< 0.3 W	– with extension unit input for push-button (NO contact), single-surface operation and motion detector extension unit
230 V incandescent lamps and halogen lamps	2300 W	– no conductive connection between supporting ring and spreading claws
230 V retrofit LED lamps	440 W	– with screw terminals
Dimmable energy-saving lamps	440 W	
Fluorescent lamps:		
- uncompensated	1100 VA	
- parallel compensated	1000 W /130 µF	
- in Duo circuit	1000 W	
- with electronic 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 mm ²	
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.



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 mm ²
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

Switch insert 1gang

Order no.

8512 11 00

PU

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 mm ²
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

Switch insert 2gang

Order no.

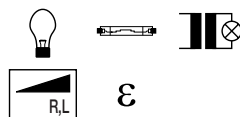
8512 22 00

PU

1



Dimmer inserts



Touch dimmer (R, L)

Operating voltage	230 V~	– low intrinsic energy requirement
Frequency	50/60 Hz	– switch-on brightness level can be stored safe after power failure
Power consumption (standby)	< 0.3 W	– bulb-preserving soft startup
230 V incandescent lamps and halogen lamps	25 ... 400 W	– phase cut-on
Dimmable conventional transformers	25 ... 400 VA	– short-circuit and overload proof (electronic fuse)
Number of universal capacity enhancers	max. 2	– with extension unit input for push-button (NO contact) with single-surface operation and motion detector extension unit
Operating temperature	-5 ... +45 °C	– expandable with universal power boosters RMD Plus
Number of substations	unlimited	– no conductive connection between supporting ring and spreading claws
Cable length, extensions	max. 50 m	– with screw terminals
Load cable length	max. 100 m	
Screw terminals	max. 2 x 1,5/1 x 2,5 mm ²	
Insertion depth	32 mm	

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

Design

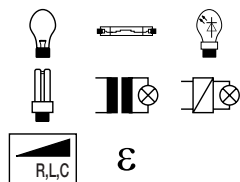
Order no.

PU

Touch dimmer (R, L)

8542 11 00

1



Universal touch dimmer 1gang

Operating voltage	230 V~	– low intrinsic energy requirement
Frequency	50/60 Hz	– bulb-preserving soft startup
Power consumption (standby)	< 0.3 W	– automatic setting to dimmable loads (autoDetect process)
230 V incandescent lamps and halogen lamps	25 ... 400 W	– phase cut-on or cut-off according to load type, self-learning
Dimmable 230 V retrofit LED lamps	5 ... 70 W	– short-circuit and overload proof (electronic fuse)
Dimmable energy-saving lamps	13 ... 80 W	– Optimisation of the dimming performance by fine adjustment of the load type and special adjustment mode
Dimmable conventional transformers	25 ... 400 VA	– with extension unit input for push-button (NO contact) with single-surface operation and motion detector extension unit
Electronic transformers and dual-mode transformers	25 ... 400 W	– no conductive connection between supporting ring and spreading claws
Operating temperature	-5 ... +45 °C	– with screw terminals
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 mm ²	
Insertion depth	32 mm	

Do not connect inductive and capacitive loads jointly.

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

Design

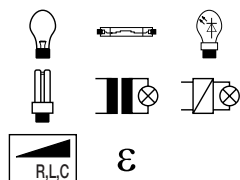
Order no.

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 mm ²
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

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
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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





Berker Q.1/Q.3

polar white velvety	8514 51 29	1
anthracite velvety, lacquered	8514 51 26	1

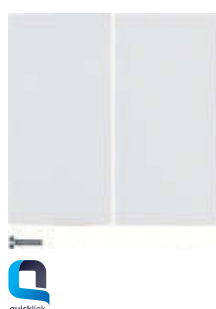
Berker K.1/K.5

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

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	– low intrinsic energy requirement
Radio protocol	KNX Radio	– configurable transmission and/or reception behaviour
Transmitter duty cycle	1 %	– reset function (to factory setting)
Receiver category	2	– quicklink functions: switching, dimming, blind, 2 scenes, time switching, NO contact push-button, memory
Number of radio channels	4	– integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
Number of quicklink links	max. 20 transmitter/receiver	– ETS additional functions: +6 scenes, 1 button control up/down, operating mode on/off, dimming value, brightness display, push-button, status display, forced control
Radio transmission power	< 10 mW	– LED application module/insert compatibility display
Radio transmission range (free field)	max. 100 m	– with configuration and function LEDs
Radio transmission range (building)	max. 30 m	– with configuration and function button
Operating temperature	-5 ... +45 °C	– operating areas configurable as one or two-area operation

For manual actuation or remote control via KNX radio.

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

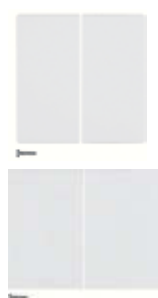
white glossy	8514 61 82	1
polar white glossy	8514 61 89	1
polar white matt	8514 61 88	1
anthracite matt	8514 61 85	1
aluminium, matt, lacquered	8514 61 83	1

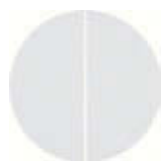
Berker Q.1/Q.3

polar white velvety	8514 61 29	1
anthracite velvety, lacquered	8514 61 26	1

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	– low intrinsic energy requirement
Radio protocol	KNX Radio	– 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
Transmitter duty cycle	1 %	– configurable transmission and/or reception behaviour
Receiver category	2	– reset function (to factory setting)
Number of radio channels	4	– quicklink functions: switching, dimming, blind, 2 scenes, time switching, NO contact push-button, memory
Number of quicklink links	max. 20 transmitter/receiver	– integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
Radio transmission power	< 10 mW	– ETS additional functions: +6 scenes, 1 button control up/down, operating mode on/off, dimming value, brightness display, push-button, status display, forced control
Radio transmission range (free field)	max. 100 m	– LED application module/insert compatibility display
Radio transmission range (building)	max. 30 m	– with configuration and function LEDs
Operating temperature	-5 ... +45 °C	– with configuration and function button
Extended operating options on 1gang inserts through 2 additional, freely-configurable radio channels.		– operating areas configurable as one or two-area operation
For manual actuation or remote control via KNX radio.		– 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

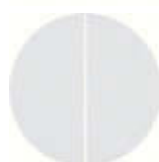
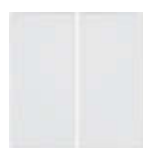
Berker K.1/K.5

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~	– low intrinsic energy requirement
Frequency	50/60 Hz	– also usable as push-button relay switch
Power consumption (standby)	< 0.3 W	– with extension unit input for push-button (NO contact), single-surface operation and motion detector extension unit
230 V incandescent lamps and halogen lamps	2300 W	
230 V retrofit LED lamps	440 W	– no conductive connection between supporting ring and spreading claws
Dimmable energy-saving lamps	440 W	– with screw terminals
Fluorescent lamps:		
- uncompensated	1100 VA	
- parallel compensated	1000 W /130 µF	
- in Duo circuit	1000 W	
- with electronic 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 mm ²	
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.

Design

Relay insert

Order no.

8512 12 00

PU

1





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

Relay insert

Order no.

8512 12 00

Page

36

Mains insert for KNX radio application module

8502 01 00

77

Design

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~	– low intrinsic energy requirement
Frequency	50/60 Hz	– also usable as push-button relay switch
Power consumption (standby)	< 0.3 W	– with extension unit input for push-button (NO contact), single-surface operation and motion detector extension unit
230 V incandescent lamps and halogen lamps	2300 W	– no conductive connection between supporting ring and spreading claws
230 V retrofit LED lamps	440 W	– with screw terminals
Dimmable energy-saving lamps	440 W	
Fluorescent lamps:		
- uncompensated	1100 VA	
- parallel compensated	1000 W /130 µF	
- in Duo circuit	1000 W	
- with electronic 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 mm ²	
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.



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 mm ²
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

Switch insert 1gang

Order no.

8512 11 00

PU

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 mm ²
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

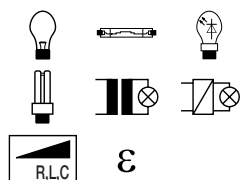
Touch dimmer (R, L)

Order no.

8542 11 00

PU

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 mm ²
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





Berker Q.1/Q.3

polar white velvety	8534 51 29	1
anthracite velvety, lacquered	8534 51 26	1



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



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	– low intrinsic energy requirement
Radio protocol	KNX Radio	– with memory function for presence simulation
Transmitter duty cycle	1 %	– teach function for response brightness via button
Receiver category	2	– with keylock
Number of radio channels	1	– party function for switching on for 2 hours
Number of quicklink links	max. 20 transmitter/receiver	– reset function (to factory setting)
Radio transmission power	< 10 mW	– switch-off pre-warning on dimmer inserts
Radio transmission range (free field)	max. 100 m	– quicklink functions: switching, dimming, 2 scenes, time switching, NO contact push-button, Memory, forced control, Master-Slave
Radio transmission range (building)	max. 30 m	– integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
Delay time, adjustable	≈ 1 s ... 3 h	– ETS additional functions: +6 scenes, operating mode on/off, push-button, status display, dimming value, brightness display, movement scene loading, no movement scene loading
Nominal mounting height	2.2 m	– LED application module/insert compatibility display
Detection angle, settable	each side ≈ 45 ... 90 °	– with operation and status LED, red/green/orange
Response sensitivity, settable	≈ 10 ... 100 %	– with configuration and function LEDs
Response brightness, adjustable	≈ 5 ... 1000 lx, ∞ lx (day)	– with configuration and function button
Range, frontal	≈ 8 m	– with button for on/off/automatic/memory/party function
Range, frontal (at 1.1 m installation height)	≈ 4 m	– remote control via quicklink transmitter
Range, side	each ≈ 6 m	– scene opening via KNX radio appliances
Range, side (at 1.1 m installation height)	each ≈ 3 m	– scene saving lockable
Detection field, rectangular shaped	≈ 8 x 12 m	– µ-processor controlled mode of operation
Switch-off pre-warning to dimming value 50% for	30 s	– with anti-dismantling protection
Operating temperature	-5 ... +45 °C	– optional operation of extension units using installation push-button
Assembling height	34 mm	

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

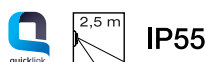




Design	Order no.	PU
Berker K.1/K.5		
polar white glossy	8534 61 79	1
anthracite matt, lacquered	8534 61 75	1
aluminium, matt, lacquered	8534 61 77	1
stainless steel matt, lacquered	8534 61 73	1
Berker R.1/R.3		
polar white glossy ¹⁾	8534 61 39	1
black glossy ¹⁾	8534 61 31	1

¹⁾ no dismantling protection possible

Surface-mounted motion detectors

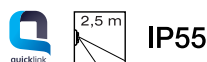


KNX radio motion detector 220° surface-mounted

Operating voltage	4.5 V=	– low intrinsic energy requirement
Battery service life [years]	≈ 4	– reset function (to factory setting)
Radio transmission frequency	868.3 MHz	– quicklink functions: time switching, NO contact push-button
Radio protocol	KNX Radio	– integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
Transmitter duty cycle	1 %	– ETS additional functions: operating mode on/off, push-button, dimming value, brightness display, movement scene loading, no movement scene loading
Receiver category	2	– with battery status indicator
Number of radio channels	1	– with configuration LED
Number of quicklink links	max. 20 transmitter/receiver	– with LED detection indicator
Radio transmission power	< 10 mW	– with configuration button
Radio transmission range (free field)	max. 100 m	– µ-processor controlled mode of operation
Radio transmission range (building)	max. 30 m	– with crawl-under protection
Delay time, adjustable	≈ 1 s ... 3 h	– with 3 Micro, alkaline batteries AAA LR03
Lockout time	10 s	– toolless quicklink configuration using buttons and LED display
Recommended installation height	≈ 2.5 m	– for wall and ceiling installation, corner installation with adapter
Detection angle	220 °	– vertically slewing and horizontally rotating
Response sensitivity, settable	≈ 20 ... 100 %	– with cover elements to limit the detection field
Response brightness, adjustable	≈ 5 ... 1000 lx, ∞ lx (day)	– wall retaining plate and fastening material included in scope of delivery
Range, frontal	≈ 16 m	Suitable for optional
Range, side	each ≈ 8 m	Order no.
Detection field, semi-oval shaped	≈ 16 x 16 m	Surface-mounted corner mounting adapter for EE855 motion detector
Operating temperature	-20 ... +55 °C	Page
Dimensions (W x H x D)	91 x 130 x 153 mm	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 EE855 motion detector		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 EE855 motion detector		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



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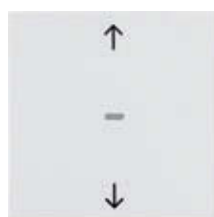
Blind insert comfort

Operating voltage	230 V~	– low intrinsic energy requirement
Frequency	50/60 Hz	– with 2 mechanically and electrically mutually-locked relay contacts
Switching current (ohmic/ inductive)	max. 5 A	– with 230 V extension unit inputs for up and down
Switching current at cos φ = 0.6	max. 3 A	– for single, group and master controls
Power consumption (standby)	< 0.1 W	– no conductive connection between supporting ring and spreading claws
Change-over time for change of direction	< 0.6 s	– circuiting of extension units push-buttons for blinds, blind inserts, key push-buttons for blinds
Operating temperature	-5 ... +45 °C	– with screw terminals
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	



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	– low intrinsic energy requirement
Radio protocol	KNX Radio	– memory function for automatic execution of learned up and down times with position
Number of radio channels	1	– configurable transmission and/or reception behaviour
Number of quicklink links	max. 20 transmitter/receiver	– party function, no execution of automatic, radio and extension unit commands (lock-out protection)
Radio transmission power	< 10 mW	– reset function (to factory setting)
Radio transmission range (free field)		– quicklink functions: blind, 2 scenes, memory, forced control, up/down push-button
Radio transmission range (building)	max. 30 m	– integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
Venetian blind movement time	2 min	– ETS additional functions: +6 scenes, operating mode, status display, 2 x alarm
Minimum slat adjustment time	≈ 150 ms	– LED application module/insert compatibility display
Lamella adjustment on signal duration	< 1 s	– with configuration and function LEDs
Lamella adjustment on button-press	< 0.4 s	– with indicator LED for lock-out protection
Change-over time for change of direction	< 0.6 s	– with status LED for memory and party function, red/orange
Operating temperature	-5 ... +45 °C	– with configuration and function button
For manual actuation, automated memory execution or remote control via KNX radio.		– 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
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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





Berker Q.1/Q.3

polar white velvety	8524 51 29	1
anthracite velvety, lacquered	8524 51 26	1



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



Berker R.1/R.3

polar white glossy	8524 51 39	1
black glossy	8524 51 31	1



KNX radio blind time switch 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		
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
Order no.		PU

Design

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



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

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
- with side locking buttons
- with 2 x lithium coin cell battery 3 V type: CR 2430
- with keyring



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



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

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
- with side locking buttons
- with 2 x lithium coin cell battery 3 V type: CR 2430
- with keyring



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

polar white velvety

Order no.

TU406

PU

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

white/dark blue

Order no.

TU418

PU

1

Wall-transmitters



KNX radio wall-transmitter 1gang flat quicklink

Operating voltage	3 V=	– reset function (to factory setting)
Battery service life [years]	≈ 5	– quicklink functions: switching, dimming, blind, 2 scenes, time switching, NO contact push-button, memory
Radio transmission frequency	868.3 MHz	– integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
Radio protocol	KNX Radio	– ETS additional functions: +6 scenes, operating mode on/off, push-button, status display, dimming value
Transmitter duty cycle	1 %	– with configuration LED
Receiver category	2	– with transmission status and battery status LED, red/green/orange
Number of radio channels	2	– with configuration button
Number of quicklink links	max. 20 transmitter/receiver	– operating areas configurable as one or two-area operation
Radio transmission power	< 10 mW	– with anti-dismantling protection
Radio transmission range (free field)	max. 100 m	– with lithium coin cell battery 3 V type: CR 2430
Radio transmission range (building)	max. 30 m	– top and bottom operating area are freely configurable
Operating temperature	-5 ... +45 °C	– toolless quicklink configuration using buttons and LED display
Assembling height	14 mm	– for flat surface mounting and extension of combinations

For radio remote control of all assigned KNX radio receivers.

Design	Order no.	PU
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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=	– reset function (to factory setting)
Battery service life [years]	≈ 5	– quicklink functions: switching, dimming, blind, 2 scenes, time switching, NO contact push-button, memory
Radio transmission frequency	868.3 MHz	– integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
Radio protocol	KNX Radio	– ETS additional functions: +6 scenes, operating mode on/off, push-button, status display, dimming value
Transmitter duty cycle	1 %	– with configuration LED
Receiver category	2	– with transmission status and battery status LED, red/green/orange
Number of radio channels	4	– with configuration button
Number of quicklink links	max. 20 transmitter/receiver	– operating areas configurable as one or two-area operation
Radio transmission power	< 10 mW	– with anti-dismantling protection
Radio transmission range (free field)	max. 100 m	– with lithium coin cell battery 3 V type: CR 2430
Radio transmission range (building)	max. 30 m	– top and bottom operating areas are freely configurable
Operating temperature	-5 ... +45 °C	– toolless quicklink configuration using buttons and LED display
Assembling height	14 mm	– for flat surface mounting and extension of combinations
For radio remote control of all assigned KNX radio receivers.		

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=	– reset function (to factory setting)
Battery service life [years]	≈ 4	– quicklink functions: up/down push-button
Radio transmission frequency	868.3 MHz	– integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
Radio protocol	KNX Radio	– ETS additional functions: button function, battery condition
Transmitter duty cycle	1 %	– with 2 potentiometers for sun/twilight and LED display for actual value
Receiver category	2	– with configuration LED
Number of radio channels	1	– with configuration button
Number of quicklink links	max. 20 transmitter/receiver	– with 2 Micro, alkaline batteries AAA LR03
Radio transmission power	< 10 mW	– toolless quicklink configuration using buttons and LED display
Radio transmission range (free field)	max. 100 m	– confectioned, with fibre-optic cable and plug
Radio transmission range (building)	max. 30 m	– for suction cover to window pane
Sun setting range	≈ 1 ... 10 klx	– with photodiode
Twilight setting range	≈ 10 ... 300 lx	– with adhesive pads and adhesive cable clips for fastening
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	

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=	– reset function (to factory setting)
Battery service life [years]	≈ 4	– quicklink functions: switching, blind, 2 scenes, time switching, NO contact push-button, forced control
Radio transmission frequency	868.3 MHz	– integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
Radio protocol	KNX Radio	– ETS additional functions: value, delay time, button function, battery condition
Transmitter duty cycle	1 %	– with configuration LED
Receiver category	2	– with transmission status, battery status and control LEDs
Number of radio channels	1	– with configuration button
Number of quicklink links	max. 20 transmitter/receiver	– with 2 Micro, alkaline batteries AAA LR03
Radio transmission power	< 10 mW	– toolless quicklink configuration using buttons and LED display
Radio transmission range (free field)	max. 100 m	– with adapters for magnet height compensation
Radio transmission range (building)	max. 30 m	– with adhesive pads for fastening
Operating temperature	+0 ... +50 °C	– with additional screw terminals for wired reed contacts
Distance to magnet	max. 5 mm	
Dimensions (L x W x H)	138 x 26 x 31 mm	
Weight	≈ 70 g	



Design	Order no.	PU
polar white matt	TRC301A	1

Binary inputs



KNX radio binary input 2gang flush-mounted

Operating voltage	3 V=	– low intrinsic energy requirement
Battery service life [years]	≈ 5	– reset function (to factory setting)
Radio transmission frequency	868.3 MHz	– quicklink functions: switching, dimming, blind, 2 scenes, time switching, NO contact push-button, memory, forced control, up/down push-button
Radio protocol	KNX Radio	– integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
Transmitter duty cycle	1 %	– ETS additional functions: +6 scenes, operating mode on/off, 1 up/down button control, push-button, 2 x alarm, status display
Receiver category	2	– with configuration LED
Number of radio channels	2	– with configuration button
Number of quicklink links	max. 20 transmitter/receiver	– with lithium battery 3 V type: CR 1/2 AA
Radio transmission power	< 10 mW	– toolless quicklink configuration using buttons and LED display
Radio transmission range (free field)	max. 100 m	– not dependent on mains power
Radio transmission range (building)	max. 30 m	– activation, for example through switches, push-buttons, timers, blind timer switches, magnetic contact
Pulse time	min. 50 ms	– confectioned, with 4-core cable
Operating temperature	-5 ... +45 °C	– for installation behind flush-mounted inserts
Binary cable length, extendable to	max. 10 m	– with 2 independent battery-supplied binary inputs for potential-free contacts
Dimensions (Ø x H)	51 x 16 mm	



Design

light grey

Order no.

TRB302A

PU

1



KNX radio binary input 2gang flush-mounted 230 V

Operating voltage	230 V~	– low intrinsic energy requirement
Frequency	50/60 Hz	– reset function (to factory setting)
Radio transmission frequency	868.3 MHz	– quicklink functions: switching, dimming, blind, 2 scenes, time switching, NO contact push-button, memory, forced control, up/down push-button
Radio protocol	KNX Radio	– integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
Transmitter duty cycle	1 %	– ETS additional functions: +6 scenes, operating mode on/off, 1 up/down button control, push-button, 2 x alarm, status display
Receiver category	2	– with configuration LED
Number of radio channels	2	– with configuration button
Number of quicklink links	max. 20 transmitter/receiver	– toolless quicklink configuration using buttons and LED display
Radio transmission power	< 10 mW	– with 2 independent, mains supplied, binary inputs for potential-free contacts
Radio transmission range (free field)	max. 100 m	– Activation, for example, through switch, push-button, wind sensor, precipitation sensor, time switch
Radio transmission range (building)	max. 30 m	– confectioned, with 4-core cable
Pulse time	min. 50 ms	– for installation behind flush-mounted inserts
Operating temperature	-5 ... +45 °C	– with screw-in lift terminals
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	



Design

light grey

Order no.

TRB302B

PU

1

Switch actuators



KNX radio switch actuator 1gang surface-mounted

Operating voltage	230 V~	– low intrinsic energy requirement
Frequency	50 Hz	– repeat function can be activated to increase the radio range
230 V incandescent lamps and halogen lamps	1500 W	– reset function (to factory setting)
Fluorescent lamps:		– quicklink functions: switching, 2 scenes, time switching, NO contact push-button, forced control
- uncompensated	600 VA	– integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- with electronical ballast (EB)	6 x 58 W	– ETS additional functions: +6 scenes, operating mode on/off, status display
Compact fluorescent lamps	6 x 18 W	– with control LED for On/Off
Conventional transformers	600 VA	– with manual operation on/off
Electronic transformers	600 W	– scene opening via KNX radio appliances
Radio reception frequency	868.3 MHz	– scene saving lockable
Radio protocol	KNX Radio	– toolless quicklink configuration using buttons and LED display
Transmitter duty cycle	1 %	– with screw-in lift terminals
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	



Design
white

Order no.
TRE201

PU
1



KNX radio switch actuator 2gang surface-mounted

Operating voltage	230 V~	– low intrinsic energy requirement
Frequency	50 Hz	– repeat function can be activated to increase the radio range
Switching current	2x 10 A/230 V AC1 A	– reset function (to factory setting)
230 V incandescent lamps and halogen lamps	per channel 1500 W	– quicklink functions: switching, 2 scenes, time switching, NO contact push-button, forced control
Fluorescent lamps:		– integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
- uncompensated	per channel 600 VA	– ETS additional functions: +6 scenes, operating mode on/off, status display
- with electronical ballast (EB)	per channel 6 x 58 W	– with control LED for On/Off
Compact fluorescent lamps	18 W	– with manual operation on/off per channel
Conventional transformers	600 VA	– scene opening via KNX radio appliances
Electronic transformers	per channel 600 W	– scene saving lockable
Radio reception frequency	868.3 MHz	– toolless quicklink configuration using buttons and LED display
Radio protocol	KNX Radio	– with screw-in lift terminals
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	



Design
white

Order no.
TRE202

PU
1



KNX radio switch actuator for plugs

Operating voltage	230 V~	– low intrinsic energy requirement
Frequency	50 Hz	– repeat function can be activated to increase the radio range
Switching current	16 A	– reset function (to factory setting)
230 V incandescent lamps and halogen lamps	2300 W	– quicklink functions: switching, 2 scenes, time switching, NO contact push-button
Conventional transformers	1600 VA	– integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
Electronic transformers and dual-mode transformers	1200 W	– ETS additional functions: +6 scenes, operating mode on/off, forced control, status display
Radio reception frequency	868.3 MHz	– with configuration and function LEDs
Radio protocol	KNX Radio	– with control LED for On/Off
Transmitter duty cycle	1 %	– with configuration and function button
Receiver category	2	– with manual operation on/off
Number of quicklink links	max. 20 transmitter/receiver	– scene opening via KNX radio appliances
Radio transmission range (free field)	max. 100 m	– scene saving lockable
Radio transmission range (building)	max. 30 m	– toolless quicklink configuration using buttons and LED display
Operating temperature	+0 ... +45 °C	
Dimensions (W x H x D)	98 x 54 x 77 mm	
Assembling height	41 mm	

For remote-controlled switching of electrical loads.



Design	Order no.	PU
polar white matt	TRC270D	1



IP55

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

Operating voltage	230 V~	– low intrinsic energy requirement
Frequency	50 Hz	– repeat function can be activated to increase the radio range
Switching current	10 A / 230 V AC1	– reset function (to factory setting)
230 V incandescent lamps and halogen lamps	1500 W	– quicklink functions: switching, 2 scenes, time switching, NO contact push-button, forced control
Fluorescent lamps:		– integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
– uncompensated	600 VA	– ETS additional functions: +6 scenes, operating mode on/off, 1 up/down button control, push-button, 2 x alarm, status display
– with electronical ballast (EB)	6 x 58 W	– with configuration and function LEDs
Compact fluorescent lamps	6 x 18 W	– with transmission status and control LED for On/Off
Conventional transformers	600 VA	– with configuration and function button
Electronic transformers	600 W	– with manual operation on/off
Radio transmission/reception frequency	868.3 MHz	– scene opening via KNX radio appliances
Radio protocol	KNX Radio	– scene saving lockable
Transmitter duty cycle	1 %	– toolless quicklink configuration using buttons and LED display
Receiver category	2	– with independent, mains supplied, binary input for potential-free contact
Number of radio channels	1	– Activation, for example through switch, push-buttons, timer
Number of quicklink links	max. 20 transmitter/receiver	– with screw-in lift terminals
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	



Design	Order no.	PU
white	TRE400	1



KNX radio switch actuator 1gang output flush-mounted

Operating voltage	230 V~	– low intrinsic energy requirement
Frequency	50 Hz	– reset function (to factory setting)
Switching current		– quicklink functions: switching, 2 scenes, time switching, NO contact push-button, forced control
230 V incandescent lamps and halogen lamps	2300 W	– integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
Fluorescent lamps:		– ETS additional functions: +6 scenes, operating mode on/off, 1 up/down button control, push-button, 2 x alarm, status display
– parallel compensated	250 W	– ETS additional function: repeater function
Conventional transformers	800 VA	– with configuration and function LEDs
Electronic transformers	1500 W	– with transmission status and control LED for On/Off
Radio transmission/reception frequency	868.3 MHz	– with configuration and function button
Radio protocol	KNX Radio	– scene opening via KNX radio appliances
Transmitter duty cycle	1 %	– scene saving lockable
Receiver category	2	– toolless quicklink configuration using buttons and LED display
Number of radio channels	1	– with independent, mains supplied, binary input for potential-free contact
Number of quicklink links	max. 20 transmitter/receiver	– Activation, for example through switch, push-buttons, timer
Radio transmission power	< 10 mW	– confectioned, with 2-core cable
Radio transmission range (free field)	max. 100 m	– for installation behind flush-mounted inserts
Radio transmission range (building)	max. 30 m	– with screw-in lift terminals
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	



Design

white

Order no.

TRB201

PU

1



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

Operating voltage	230 V~	– low intrinsic energy requirement
Frequency	50 Hz	– reset function (to factory setting)
Switching current		– quicklink functions: switching, 2 scenes, time switching, NO contact push-button, forced control
230 V incandescent lamps and halogen lamps	1500 W	– integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
Fluorescent lamps:		– ETS additional functions: +6 scenes, operating mode on/off, 1 up/down button control, push-button, 2 x alarm, status display
– parallel compensated	11x 36 W /47 µF	– ETS additional function: repeater function
Conventional transformers	800 VA	– with configuration and function LEDs
Electronic transformers	600 W	– with transmission status and control LED for On/Off
Radio transmission/reception frequency	868.3 MHz	– with configuration and function button
Radio protocol	KNX Radio	– scene opening via KNX radio appliances
Transmitter duty cycle	1 %	– scene saving lockable
Receiver category	2	– toolless quicklink configuration using buttons and LED display
Number of radio channels	1	– with independent, mains supplied, binary input for potential-free contact
Number of quicklink links	max. 20 transmitter/receiver	– Activation, for example through switch, push-buttons, timer
Radio transmission power	< 10 mW	– confectioned, with 2-core cable
Radio transmission range (free field)	max. 100 m	– for installation behind flush-mounted inserts
Radio transmission range (building)	max. 30 m	– with screw-in lift terminals
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	



Design

white

Order no.

TRB501

PU

1

Dim actuators



KNX radio universal dim actuator 1gang flush-mounted

Operating voltage	230 V~	– low intrinsic energy requirement
Frequency	50 Hz	– reset function (to factory setting)
230 V incandescent lamps and halogen lamps	20 ... 200 W	– quicklink functions: dimming, 2 scenes, time switching, NO contact push-button
Conventional transformers	20 ... 200 VA	– integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
Conventional transformers	20 VA	– ETS additional functions: +6 scenes, operating mode on/off, dimming value, forced control, status display, brightness display, repeater function
Electronic transformers	20 ... 200 W	– with configuration and function LEDs
Radio reception frequency	868.3 MHz	– with control LED for On/Off
Radio protocol	KNX Radio	– with configuration and function button
Transmitter duty cycle	1 %	– scene opening via KNX radio appliances
Receiver category	2	– scene saving lockable
Number of quicklink links	max. 20 transmitter/receiver	– toolless quicklink configuration using buttons and LED display
Radio transmission range (free field)	max. 100 m	– bulb-preserving soft startup
Radio transmission range (building)	max. 30 m	– phase cut-on or cut-off according to load type, self-learning
Operating temperature	+0 ... +45 °C	– short-circuit and overload proof (electronic fuse)
Dimensions (Ø x H)	56 x 38 mm	– with screw-in lift terminals
IP	30	



Design

light grey

Order no.

TRB210

PU

1

Blind actuators



KNX radio blind actuator 1gang surface-mounted

Operating voltage	230 V~	– low intrinsic energy requirement
Frequency	50 Hz	– repeat function can be activated to increase the radio range
Switching current	10 A / 230 V AC1	– reset function (to factory setting)
Radio reception frequency	868.3 MHz	– quicklink functions: blind, 2 scenes, forced control, up/down push-button
Radio protocol	KNX Radio	– integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
Transmitter duty cycle	1 %	– ETS additional functions: +6 scenes, operating mode, status display, 2 x alarm
Receiver category	2	– with configuration and function LEDs
Number of quicklink links	max. 20 transmitter/receiver	– with control LED (relay closed)
Radio transmission range (free field)	max. 100 m	– with configuration and function button
Radio transmission range (building)	max. 30 m	– with manual operation up/down
Lamella adjustment on signal duration	< 1 s	– scene opening via KNX radio appliances
Change-over time for change of direction	< 0.6 s	– scene saving lockable
Operating temperature	-10 ... +55 °C	– toolless quicklink configuration using buttons and LED display
Dimensions (L x W x H)	150 x 85 x 35 mm	– with 2 mechanically and electrically mutually-locked relay contacts
IP	55	– with screw-in lift terminals



Design

white

Order no.

TRE221

PU

1



KNX radio blind actuator 1gang output flush-mounted

Operating voltage	230 V~	– low intrinsic energy requirement
Frequency	50 Hz	– reset function (to factory setting)
Switching current	6 A / 230 V AC1	– quicklink functions: blind, 2 scenes, forced control, up/down push-button
Radio transmission/reception frequency	868.3 MHz	– integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
Radio protocol	KNX Radio	– ETS additional functions: +6 scenes, operating mode, 1 up/down button control, 2 x alarm, status display
Transmitter duty cycle	1 %	– ETS additional function: repeater function
Receiver category	2	– with configuration and function LEDs
Number of radio channels	1	– with control LED (relay closed)
Number of quicklink links	max. 20 transmitter/receiver	– with configuration and function button
Radio transmission power	< 10 mW	– with manual operation up/down
Radio transmission range (free field)	max. 100 m	– scene opening via KNX radio appliances
Radio transmission range (building)	max. 30 m	– scene saving lockable
Lamella adjustment on signal duration	< 1 s	– toolless quicklink configuration using buttons and LED display
Change-over time for change of direction	< 0.6 s	– with 2 mechanically and electrically mutually-locked relay contacts
Operating temperature	+0 ... +45 °C	– with 2 independent, mains supplied, binary inputs for potential-free contacts
Conductor cross-section	0.75 mm ² ... 2.5 mm ²	– Activation, for example through switch, push-button, timer, blind timer switch
Binary cable length	≈ 20 cm	– for installation behind flush-mounted inserts
Binary cable length, extendable to	max. 5 m	– with 2 independent battery-supplied binary inputs for potential-free contacts
Dimensions (Ø x H)	53 x 27 mm	– with screw-in lift terminals
IP	20	



Design

light grey

Order no.

TRB221

PU

1



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

Operating voltage	230 V~	– low intrinsic energy requirement
Frequency	50 Hz	– reset function (to factory setting)
Switching current	6 A / 230 V AC1	– quicklink functions: blind, 2 scenes, forced control, up/down push-button
Radio transmission/reception frequency	868.3 MHz	– integration in the KNX radio/TP gateway, surface-mounted, into the KNX TP system
Radio protocol	KNX Radio	– ETS additional functions: +6 scenes, operating mode, 1 up/down button control, 2 x alarm, status display
Transmitter duty cycle	1 %	– ETS additional function: repeater function
Receiver category	2	– with configuration and function LEDs
Number of radio channels	2	– with control LED (relay closed)
Number of quicklink links	max. 20 transmitter/receiver	– with configuration and function button
Radio transmission power	< 10 mW	– with manual operation up/down
Radio transmission range (free field)	max. 100 m	– scene opening via KNX radio appliances
Radio transmission range (building)	max. 30 m	– scene saving lockable
Lamella adjustment on signal duration	< 1 s	– toolless quicklink configuration using buttons and LED display
Change-over time for change of direction	< 0.6 s	– with 2 mechanically and electrically mutually-locked relay contacts
Operating temperature	+0 ... +45 °C	– with 2 independent, mains supplied, binary inputs for potential-free contacts
Conductor cross-section	0.75 mm ² ... 2.5 mm ²	– Activation, for example through switch, push-button, timer, blind timer switch
Binary cable length	≈ 20 cm	– for installation behind flush-mounted inserts
Binary cable length, extendable to	max. 5 m	– with 2 independent battery-supplied binary inputs for potential-free contacts
Dimensions (Ø x H)	53 x 27 mm	– with screw-in lift terminals
IP	30	



Design

light grey

Order no.

TRB521

PU

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 mm ²
Insertion depth	22 mm
Housing installation depth	32 mm (claw guide)

- 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

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



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

- 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

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.



Design	Order no.	PU
polar white matt	TR131A	1

KNX radio solutions by Hager





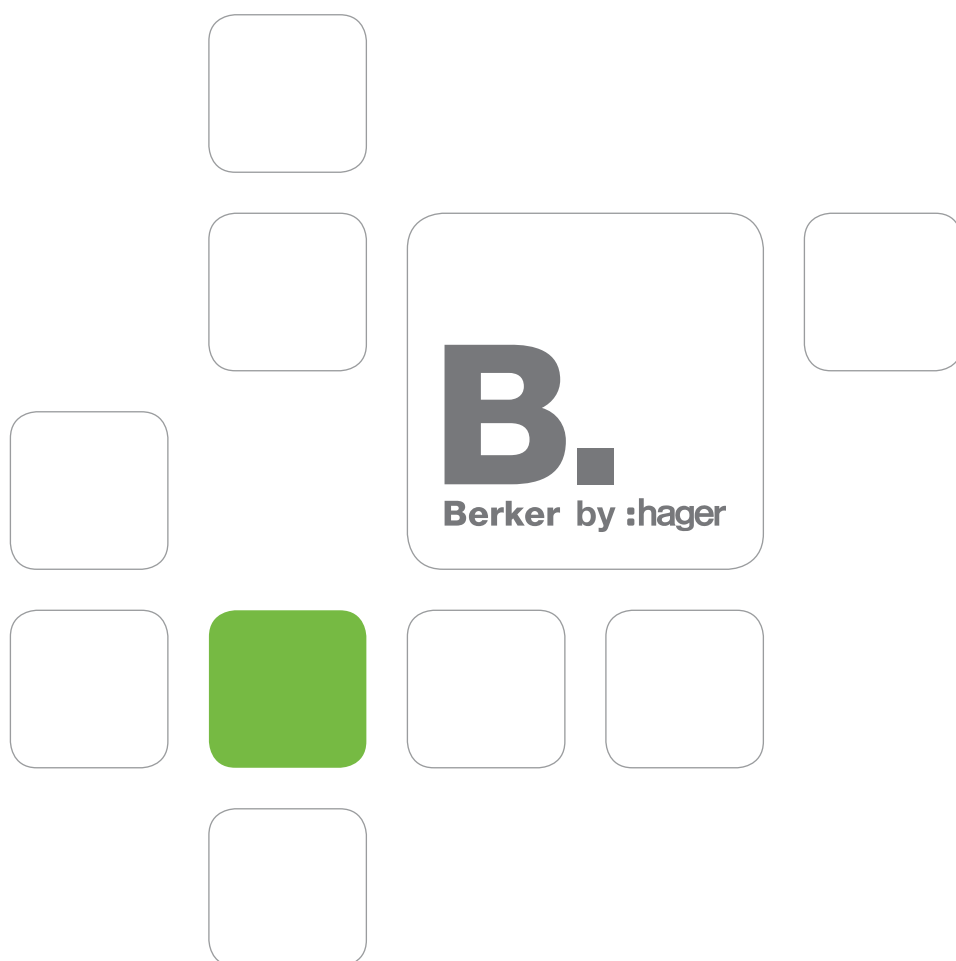
Really

Very

Innovative

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