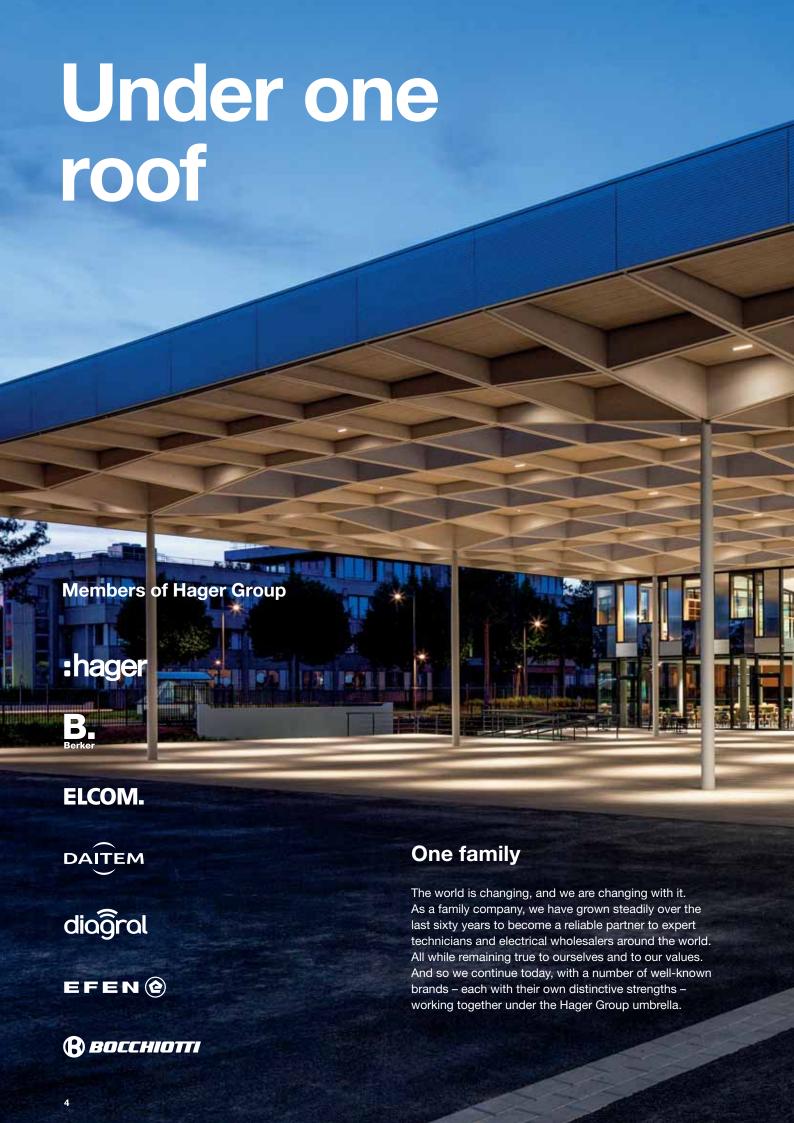
# KNX solution Catalogue 2019/2020



# Your reliable partner for building automation.





## 6

Global warming, a shortage of natural resources, social cohesion and the transition to renewable energy: there are many challenges facing businesses and society today. Hager Group is pursuing a variety of initiatives to promote sustainable development with its "E3" approach.

## Environ

### **E for Environment**

We work continuously to reduce our carbon footprint. Our priorities include optimising the transport of our products and cutting the amount of energy we use in production to further reduce our Carbon footprint.



### Ethics

### **E for Ethics**

We need skilled, motivated and healthy employees in order to offer our customers the best services and products. That's why we provide all our team members with a safe, healthy working environment, support their professional growth and offer them opportunities for further development. We also promote diversity and adherence to an Ethics Code throughout the company.

### ment

# Energy

### **E** for Energy

Hager Group helps its customers to save energy intelligently. We also analyse and optimise our products' environmental performance throughout development and production. By providing a detailed environmental profile for most of our products, we can be fully transparent with our customers and ourselves.

### Technology as a friend



### Hager Design turns technical products into familiar friends.

Before we start designing a new product, we think about the people it is going to serve. Will it assist or entertain, observe or protect, save time or save energy? Ideally, whatever it does, users will feel it is a reliable 'friend'. We need to know how to connect with people on an emotional level, to ensure that in return they feel connected to our products.



Erwin van Handenhoven Hager Group Design Director

### **Technology for people**

Responsible design builds on an ethical foundation. At Hager, this foundation is all about respecting people and caring about their well-being. And it's not just about today – we want to inspire our customers for years to come. That's why we include them in every stage of the design process – from installer to planner, to end user.

### An honest brand

Hager products are world-renowned for their quality, which is visibly and tangibly unveiled in their design. The unmistakeable, explicit and clear brand image tells customers straight away that these products are part of 'the family'. This is our signature, the Hager DNA, which embodies two central principles.

### Friendly, serene, balanced

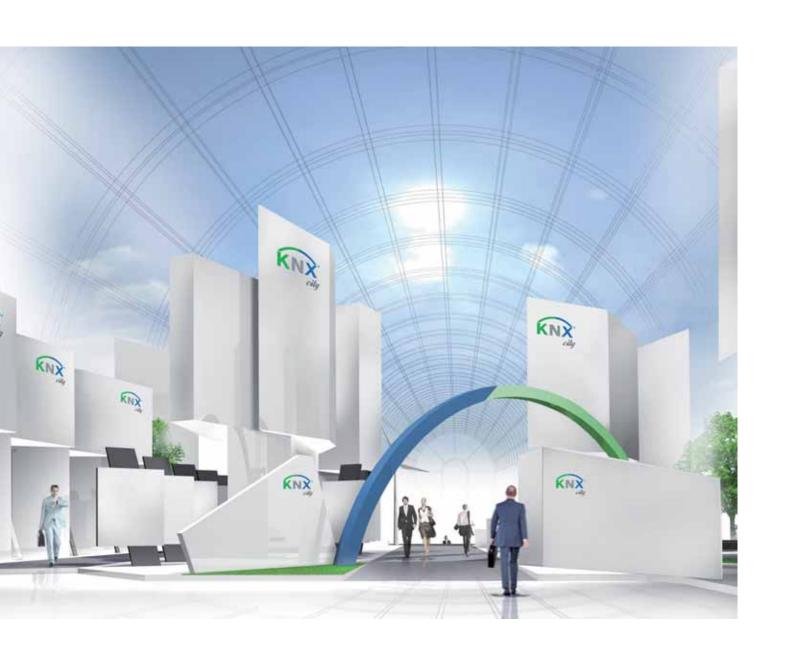
An honest, authentic design that blends naturally into everyday life, without gadgets or cheap effects.

### Ingeniously simple

Our products are important, but never over-thetop. If it's not necessary, we leave it out. The essence remains. Straightforward in both form and function: simple to install, simple to use. Simply Hager!

### Looking ahead to the future

Hager systems are not stagnant – they are expanding, gaining more and more visibility in our customer's homes. This has implications for our present design language. We call it 'New Start'. The aim of New Start is to meet our customers where they are, and carry them with us into the future: with innovative ideas, new designs and expressive materials. The new Hager catalogue is full of 'New Starters' – along with lots of 'old friends'. Come and explore!



## KNX the strength of a standard.

### **Guaranteed compatibility**

For over 20 years, the presence of the KNX logo on products has certified that they communicate perfectly with each other, even when they are offered by different manufacturers. This ensures a high degree of flexibility in the extension and modification of facilities.

### **Seamless continuity**

The extent of the KNX community gives the protocol a unique power in the building automation market. Its broad range of products constitutes a set of solutions to meet all situations.

### Openness, a state of mind

Various gateways are offered by the adherents of KNX to create links with other specification standards such as DALI and BACNET.

405

manufacturers in 41 countries

409

training centres in 67 countries

67992

KNX partners in 159 countries

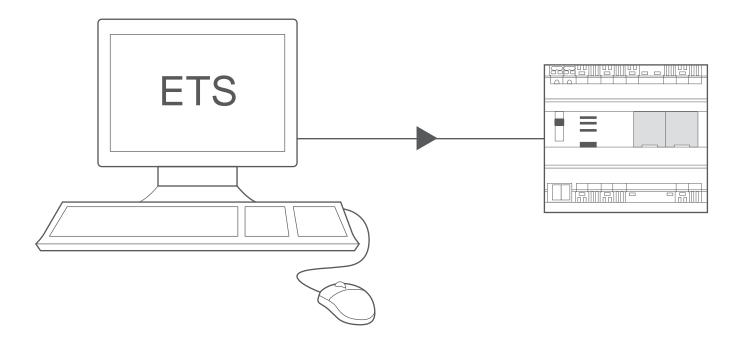
<sup>\*</sup> Source: knx.org

### System programming premium KNX solution

For large-scale and commercial projects requesting a whole range of functionalities, system is the most adapted solution. Our KNX system range has been developped for the most complex and demanding installations. Our wide range of KNX devices offers very advanced configuration possibilities in ETS software. The range of KNX modules consists in output devices for shutters and lighting management as well as binary modules with current measurement.







### **Configuration**

ETS is the software used for the configuration of every KNX solution. To configure the products, the computer has to be plugged to the installation via a gateway.

The software includes many features, such as:

- easy and quick integration of wireless KNX products in the installation
- user-friendly interface
- simple database
- possibility to track changes related to the project...

### **Benefits**

- Efficient installation: ETS 5 configuration software has become so simple and intuitive to use for a quick configuration
- A wide range of products to answer all type of projects
- Comfort as its best: possibility to set unlimited number of various scenarios
- Safer installations: would any problem occur, it is possible to troubleshoot easily and quickly



### KNX solution catalogue

Visit our website for more information: www.hager.com

### **Chapters**

### **Page**

### 01 KNX wall-mounted input devices

Push-buttons / Motion detectors / KNX thermostat / KNX touch control / KNX EnOcean / Sensors / systo KNX / Frames



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### 02 Berker B.IQ

Push-buttons / Light scenes Push-buttons / Push-buttons with thermostat / Labelling fields



76

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Glass sensors / Supplementary products



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### 04 Berker TS / TS Crystal

Cover plates / Supplementary products



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### 05 Berker R.1 / R.3 Touch Sensors

Touch Sensors comfort / Touch Sensors with thermostat



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### 06 KNX inputs, outputs and system components

Presence detectors / Light sensitive switches / Physical sensors / Input modules / input/output modules / Binary inputs / Time switches / Energy meters / Actuators / Power supplies / Couplers / Data interfaces



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### 07 KNX remote control and visualisation

domovea / Touch panels / Operating panels



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### 08 KNX wireless components

Light control / Motion detectors / Light sensitive switches / | Physical sensors / Blind control / Transmitters / Binary inputs / Switch actuators / Micromodules / Blind actuators / Power supply / Unidirectional input concentrator



156

### KNX wall-mounted input devices

There are devices which want to show everyone, all the time, what they can do. And there are those all-rounders, who hide their technical perfection and spacious insert width behind a discreet surface. These include our KNX control sections, which can be integrated easily into our switch range using simply their design or using a frame.





<b>01</b>	
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systo frames	71
essensya frames	73



### **Push-buttons**



### Bus application unit flush-mounted

external temperature sensor



Operating voltage over bus Operating temperature Insertion depth 21 ... 32 V= - 5 ... + 45 °C 32 mm

- with programming button and red programming LED
- additional connection for external temperature sensor
- with integrated buzzer for acoustic identification of the device within the system
- bus connection via connecting terminal
- with spreader claws

Suitable for	Order no.	Page
Outdoor temperature sensor	EK088	39
Temperature sensor	EK090	40

Design	Order no.	PU
Bus application unit flush-mounted	8004 00 01	1
Bus application unit flush-mounted	8004 00 11	10



### **Push-button 1gang**

- labelling field
- RGB LED
- internal temperature sensor



Power consumption, KNX  $\approx$  150 mW Operating temperature  $-5 \dots +45$  °C Current consumption 20 mA

Use only in conjunction with bus coupling unit flushmounted (order no.: 8004 00 x1)

- with white operating LED
- status LED configurable in 6 colors
- brightness value of the status LED for day/nighttime operation preset, status LED for day/nighttime operation can be controlled via object
- operation LED can be configured via object
- operating concepts for button function and "roller shutter/blind function" predefined
- button functions: switching, dimming, roller shutter/blind, timer, value transmitter 2 byte, thermostat extension unit, priority, scene, automatic control deactivation
- value transmitter for temperature values 2 byte
- switching of up to 64 scenes possible
- parameter defineable lock function
- function for incremental selection of up to 7 stored values
- function for manual interruption of automatic functions already triggered
- integrated temperature sensor with output of the measured values via object
- for bus coupling unit flush-mounted
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
- with anti-dismantling protection

Suitable for	Order no.	Page
Bus application unit flush-mounted	8004 00	18



Design	Order no.	PU
Berker S.1/B.3/B.7		
for white and polar white 1)	8016 17 80	1
for anthracite and aluminium 1)	8016 17 85	1
Berker Q.1/Q.3		
white 2)	8014 13 22	1
polar white 2)	8014 13 29	1
anthracite 2)	8014 13 26	1
aluminium <sup>2)</sup>	8014 13 21	1





Design	Order no.	PU
Berker K.1/K.5		
polar white 3)	8016 17 70	1
anthracite 3)	8016 17 76	1
aluminium 3)	8016 17 74	1
stainless steel 3)	8016 17 73	1

1) Labelling field length (W x H): 52.3 x 52.3 mm

2) Dimensions (W x H): 56.4 x 56.4 mm

3) Labelling field length (W x H): 66.8 x 52.8 mm Every label at the right size on: configurator.hager.com



### **Push-button 1gang**

- RGB LED
- internal temperature sensor



 $\approx 150 \ mW$ Power consumption, KNX - 5 ... + 45 °C Operating temperature 20 mA Current consumption

Use only in conjunction with bus coupling unit flushmounted (order no.: 8004 00 x1)

- with white operating LED
- status LED configurable in 6 colors
- brightness value of the status LED for day/nighttime operation preset, status LED for day/nighttime operation can be controlled via object
- operation LED can be configured via object
- operating concepts for button function and "roller shutter/blind function" predefined
- button functions: switching, dimming, roller shutter/blind, timer, value transmitter 2 byte, thermostat extension unit, priority, scene, automatic control deactivation
- value transmitter for temperature values 2 byte
- switching of up to 64 scenes possible
- parameter defineable lock function
- function for incremental selection of up to 7 stored
- function for manual interruption of automatic functions already triggered
- integrated temperature sensor with output of the measured values via object
- for bus coupling unit flush-mounted
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte

Order no.

8004 00 ..

Page

18

- with anti-dismantling protection

Bus application unit flush-mounted

Design Berker R.1/R.3	Order no.	PU
polar white glossy	8016 18 69	1
black glossy	8016 18 65	1

### **KNX** wall-mounted input devices

### **Push-buttons**





### **Push-button 2gang**

- labelling fields
- RGB LED
- internal temperature sensor



Power consumption, KNX Operating temperature

 $\approx 150 \; mW$ 

20 mA

- 5 ... + 45 °C

Current consumption

Use only in conjunction with bus coupling unit flushmounted (order no.: 8004 00 x1)

- with 2 status LEDs per rocker
- with white operating LED
- status LED configurable in 6 colors
- brightness value of the status LED for day/nighttime operation preset, status LED for day/nighttime operation can be controlled via object
- operation LED can be configured via object
- operating concepts for button function and "roller shutter/blind function" predefined
- button functions: switching, dimming, roller shutter/blind, timer, value transmitter 2 byte, thermostat extension unit, priority, scene, automatic control deactivation
- value transmitter for temperature values 2 byte
- switching of up to 64 scenes possible
- parameter defineable lock function
- function for incremental selection of up to 7 stored values
- function for manual interruption of automatic functions already triggered
- integrated temperature sensor with output of the measured values via object
- for bus coupling unit flush-mounted
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte

Order no.

8004 00 ..

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with anti-dismantling protection

Bus application unit flush-mounted

Suitable for

Design	Order no.	PU
Berker S.1/B.3/B.7		
for white and polar white 1)	8016 27 80	1
for anthracite and aluminium 1)	8016 27 85	1
Berker Q.1/Q.3		
white 2)	8014 23 22	1
polar white 2)	8014 23 29	1
anthracite 2)	8014 23 26	1
aluminium <sup>2)</sup>	8014 23 21	1
Berker K.1/K.5		
polar white 3)	8016 27 70	1
anthracite 3)	8016 27 76	1
aluminium 3)	8016 27 74	1
stainless steel 3)	8016 27 73	1



<sup>&</sup>lt;sup>2)</sup> Dimensions (W x H): 56.4 x 26.8 mm

configurator.hager.com



<sup>&</sup>lt;sup>3)</sup> Labelling field length (W x H): 66.8 x 25 mm Every label at the right size on:

### KNX wall-mounted input devices Push-buttons





### **Push-button 2gang**

- RGB LED
- internal temperature sensor



Design

Berker R.1/R.3

black glossy

polar white glossy

Power consumption, KNX  $\approx$  150 mW Operating temperature  $-5 \dots +45$  °C Current consumption 20 mA

Use only in conjunction with bus coupling unit flushmounted (order no.:  $8004\ 00\ x1)$ 

- with white operating LED
- status LED configurable in 6 colors
- brightness value of the status LED for day/nighttime operation preset, status LED for day/nighttime operation can be controlled via object
- operation LED can be configured via object
- operating concepts for button function and "roller shutter/blind function" predefined
- button functions: switching, dimming, roller shutter/blind, timer, value transmitter 2 byte, thermostat extension unit, priority, scene, automatic control deactivation
- value transmitter for temperature values 2 byte
- switching of up to 64 scenes possible
- parameter defineable lock function
- function for incremental selection of up to 7 stored values
- function for manual interruption of automatic functions already triggered
- integrated temperature sensor with output of the measured values via object
- for bus coupling unit flush-mounted
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte

Order no.

8004 00 ..

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1

- with anti-dismantling protection

Bus application unit flush-mounted

Suitable for

8016 28 69

8016 28 65

Order no.	PU

### **KNX** wall-mounted input devices

### **Push-buttons**





### **Push-button 3gang**

- labelling fields
- RGB LED
- internal temperature sensor



aluminium 3)

stainless steel 3)

Power consumption, KNX Operating temperature Current consumption ≈ 150 mW - 5 ... + 45 °C 20 mA

Use only in conjunction with bus coupling unit flush-mounted (order no.: 8004 00 x1)

- with 2 status LEDs per rocker
- with white operating LED
- status LED configurable in 6 colors
- brightness value of the status LED for day/nighttime operation preset, status LED for day/nighttime operation can be controlled via object
- operation LED can be configured via object
- operating concepts for button function and "roller shutter/blind function" predefined
- button functions: switching, dimming, roller shutter/blind, timer, value transmitter 2 byte, thermostat extension unit, priority, scene, automatic control deactivation
- value transmitter for temperature values 2 byte
- switching of up to 64 scenes possible
- parameter defineable lock function
- function for incremental selection of up to 7 stored values
- function for manual interruption of automatic functions already triggered
- integrated temperature sensor with output of the measured values via object
- for bus coupling unit flush-mounted
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte

Order no.

8004 00 ..

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1

with anti-dismantling protection

Bus application unit flush-mounted

Design	Order no.	PU
Berker S.1/B.3/B.7		
for white and polar white 1)	8016 37 80	1
for anthracite and aluminium 1)	8016 37 85	1
Berker Q.1/Q.3		
white 2)	8014 33 22	1
polar white 2)	8014 33 29	1
anthracite 2)	8014 33 26	1
aluminium <sup>2)</sup>	8014 33 21	1
Berker K.1/K.5		
polar white 3)	8016 37 70	1
anthracite 3)	8016 37 76	1

8016 37 74

8016 37 73

Suitable for



<sup>&</sup>lt;sup>3)</sup> Labelling field length (W x H): 66.8 x 15.7 mm Every label at the right size on:

configurator.hager.com



### KNX wall-mounted input devices Push-buttons





### **Push-button 4gang**

- labelling fields
- RGB LED
- internal temperature sensor



Power consumption, KNX  $\approx 150 \text{ mW}$  Operating temperature  $-5 \dots +45 \text{ °C}$  Current consumption 20 mA

Use only in conjunction with bus coupling unit flushmounted (order no.: 8004 00 x1)

In the design line S.1/B.x and K.x only use in conjunction with a frame with large cut-out

- with 2 status LEDs per rocker
- with white operating LED
- status LED configurable in 6 colors
- brightness value of the status LED for day/nighttime operation preset, status LED for day/nighttime operation can be controlled via object
- operation LED can be configured via object
- operating concepts for button function and "roller shutter/blind function" predefined
- button functions: switching, dimming, roller shutter/blind, timer, value transmitter 2 byte, thermostat extension unit, priority, scene, automatic control deactivation
- value transmitter for temperature values 2 byte
- switching of up to 64 scenes possible
- parameter defineable lock function
- function for incremental selection of up to 7 stored values
- function for manual interruption of automatic functions already triggered
- integrated temperature sensor with output of the measured values via object
- for bus coupling unit flush-mounted
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte

Order no.

8004 00 ..

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- with anti-dismantling protection

Bus application unit flush-mounted

Suitable for

Design	Order no.	PU
Berker S.1/B.3/B.7		
for white and polar white 1)	8016 47 80	1
for anthracite and aluminium 1)	8016 47 85	1
Berker Q.1/Q.3		
white 2)	8014 43 22	1
polar white 2)	8014 43 29	1
anthracite 2)	8014 43 26	1
aluminium <sup>2)</sup>	8014 43 21	1
Berker K.1/K.5		
polar white 3)	8016 47 70	1
anthracite 3)	8016 47 76	1
aluminium 3)	8016 47 74	1
stainless steel 3)	8016 47 73	1



 $^{1)}$  Labelling field length (W x H): 52.3 x 24.9 mm  $^{2)}$  Dimensions (W x H): 56.4 x 12 mm  $^{3)}$  Labelling field length (W x H): 66.8 x 25 mm

 $^{\rm 3}$  Labelling field length (W x H): 66.8 x 25 mm Every label at the right size on: configurator.hager.com



### **Push-buttons with thermostat**



### Bus coupling unit flush-mounted

Operating voltage over bus Power consumption, KNX Operating temperature Insertion depth 21 ... 32 V= - with programming button and red programming LED  $\approx$  100 mW - as interface between KNX user module and bus line

-5 ... +45  $^{\circ}\text{C}$  - bus connection via connecting terminal

23 mm - without spreader claws

Design	Order no.	PU
Bus coupling unit flush-mounted	7504 00 01	1

### Berker S.1/B.3/B.7, K.1/K.5 - push-buttons with thermostat

- For switch, push-button, dimmer, blind and thermostat functions
- Single and two push-button operation configurable
- One push-button operation for switching, push-buttons, blinds and dimming
- Extension unit for light scene push-button
- For individual single room temperature control
- For heating and/or cooling mode with/without auxiliary step
- Controller operating modes: comfort, standby, night and frost/heat protection mode
- LC display with symbol display
- With 2 additional function buttons for display control
- Display of operating mode, controller lockout, room and outside temperature as well as time in connection with a clock
- Temperature measurement via internal and/or external temperature sensor with mean value formation
- With room temperature timer
- For installation in single standard wall boxes
- For continuous (PI) or switched (2-point) control of max. 2 control circuits
- With dismantling protection
- With button blocking function
- End customer display scope
- Separate object for window contact
- Programmable from ETS2, V1.2a
- Alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
- Presence button configurable to extend comfort
- Value transmitter for dimming, position, brightness and temperature values 1 and 2 byte



### Push-button 2gang with thermostat

labelling fields
 display
 suitable for
 order no.



Suitable forOrder no.Bus coupling unit flush-mounted7504 00 01

Operating temperature -5 ... +45 °C

Design Order no. PU Berker S.1/B.3/B.7 for white and polar white 1) 7566 27 80 for anthracite and aluminium 1) 7566 27 85 1 Berker K.1/K.5 polar white 2) 7566 27 70 1 anthracite 2) 7566 27 75 1 aluminium 2) 7566 27 74 1 stainless steel 2) 7566 27 73



<sup>1)</sup> labelling field length (W x H): 52.3 x 15.6 mm <sup>2)</sup> labelling field length (W x H): 66.8 x 15.7 mm Every label at the right size on: configurator.hager.com

Page









### Push-button 3gang with thermostat

- labelling fields

- with white operation LED and 6 red status LEDs

- display 14:23

Page 24 Suitable for Order no. Bus coupling unit flush-mounted 7504 00 01

Operating temperature

-5 ... +45 °C

Use only in combination with frame with large cut-out.

Design	Order no.	PU
Berker S.1/B.3/B.7		
for white and polar white 1)	7566 37 80	1
for anthracite and aluminium 1)	7566 37 85	1
Berker K.1/K.5		
polar white 2)	7566 37 70	1
anthracite 2)	7566 37 75	1
aluminium 2)	7566 37 74	1
stainless steel 2)	7566 37 73	1

 $^{\mbox{\tiny 1)}}$  labelling field length (W x H): 52.3 x 24.9 mm  $^{2}$  labelling field length (W x H): 66.8 x 25 mm Every label at the right size on: configurator.hager.com



### Push-button 5gang with thermostat

- labelling fields

- with white operation LED and 10 red status LEDs

- display 14:23 Suitable for Order no. Page Bus coupling unit flush-mounted 7504 00 01

-5 ... +45 °C Operating temperature

Use only in combination with frame with large cut-out.

Design	Order no.	PU
Berker S.1/B.3/B.7		
for white and polar white 1)	7566 57 80	1
for anthracite and aluminium 1)	7566 57 85	1
Berker K.1/K.5		
polar white 2)	7566 57 70	1
anthracite 2)	7566 57 75	1
aluminium <sup>2)</sup>	7566 57 74	1
stainless steel 2)	7566 57 73	1



<sup>1)</sup> labelling field length (W x H): 52.3 x 15.6 mm <sup>2)</sup> labelling field length (W x H): 66.8 x 15.7 mm Every label at the right size on: configurator.hager.com



### Berker Q.1/Q.3 - push-buttons with thermostat and bus coupling unit

- For switch, push-button, dimmer, blind and thermostat functions
- Single and two push-button operation parameterisable
- One push-button operation for switching, push-buttons, blinds and dimming
- Extension unit for light scene push-button
- For retrieval, saving and setting of 8 light scenes
- For individual single room temperature control
- For heating and/or cooling mode with/without auxiliary step
- Controller operating modes: comfort, standby, night and frost/heat protection mode
- LC display with symbol display
- With 2 additional function buttons for display control
- Display of operating mode, controller lockout, room and outside temperature as well as time in connection with a clock
- Temperature measurement via internal and/or external temperature sensor with mean value formation
- With room temperature timer
- For installation in single standard wall boxes
- For continuous (PI) or switched (2-point) control of max. 2 control circuits
- With dismantling protection
- With button blocking function
- End customer display scope parameterisable
- Separate object for window contact
- Programmable from ETS2, V1.2a
- Alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
- Presence button parameterisable to extend comfort
- Value transmitter for dimming, position, brightness and temperature values 1 and 2 byte



### Push-button 2gang with thermostat

- labelling fields

display

- integrated bus coupling unit



Berker Q.1/Q.3

polar white velvety

anthracite velvety

white velvety

Operating temperature

Labelling field length (W x H)

-5 ... +45 °C 56.4 x 17 mm

Order no.

Labelling field foils for push-buttons 2gang, 3gang with thermostat

Labelling field foils for push-buttons 3gang, 2-/5gang with thermostat

Suitable for

replacement

Suitable for

replacement

 7566 27 22
 1

 7566 27 29
 1

 7566 27 26
 1

with white operation LED and 6 amber status LEDs

- with white operation LED and 4 amber status LEDs

Order no.

9498 31 03

Order no.

9498 30 02

PΠ

27



### Push-button 3gang with thermostat

- labelling fields

- display

Design

- integrated bus coupling unit



Operating temperature Labelling field length (W x H) -5 ... +45 °C 56.4 x 26.8 mm

Use only in combination with frame with large cut-out.

Design	Order no.	PU
Berker Q.1/Q.3		
white velvety	7566 37 22	1
polar white velvety	7566 37 29	1
anthracite velvety	7566 37 26	1

	•		•
2	•	ľ	3

### **KNX** wall-mounted input devices

- with white operation LED and 10 amber status LEDs

Order no.

9498 31 03

Page

27







### Push-button 5gang with thermostat

- labelling fields

- display - integrated bus coupling unit



Operating temperature -5 ... +45 °C Labelling field length (W x H) 56.4 x 17 mm

Use only in combination with frame with large cut-out.

Design	Order no.	PU
Berker Q.1/Q.3		
white velvety	7566 57 22	1
polar white velvety	7566 57 29	1
anthracite velvety	7566 57 26	1

Suitable for

replacement

Labelling field foils for push-buttons 3gang, 2-/5gang with thermostat

### Berker Q.1/Q.3 - accessories



### Labelling field foils for push-buttons 2gang, 3gang with thermostat

Suitable for inkjet and laser printers. UV-resistant.

Design

Design

- foil with 18 fields

Suitable for

Push-button 3gang with thermostat

Order no.

Page 7566 37 2 . 26

PU

PU

1

Order no.

polar white 9498 30 02



### Labelling field foils for push-buttons 3gang, 2-/5gang with thermostat

- foil with 30 fields

Order no.

Suitable for Order no. Page Push-button 2gang with thermostat 7566 27 2 .. 26 Push-button 5gang with thermostat 7566 57 2 .. 27

9498 31 03 polar white

Customise your own label, always at the right size, using our configuration tool: configurator.hager.com



### Push-button with bus coupling unit

### **Push-button modules**



### **Push-button module 1gang**

- internal temperature sensor
- integrated bus coupling unit



Operating voltage over bus Current consumption Operating temperature Insertion depth

10 mA

- 5 ... + 45 °C

32 mm

21 ... 32 V=

- status LED configurable in 6 colors
- brightness value of the status LED for day/nighttime operation preset, status LED for day/nighttime operation can be controlled via object
- operation LED can be configured via object
- operating concepts for button function and "roller shutter/blind function" predefined
- push-button functions: switching, dimming, roller shutter/blind, value transmitter 2 byte, thermostat, scene, priority
- value transmitter for temperature values 2 byte
- parameter defineable lock function
- function for manual interruption of automatic functions already triggered
- with programming button and red programming LED
- integrated temperature sensor with output of the measured values via object
- with integrated bus coupling unit
- bus connection via connecting terminal
- with anti-dismantling protection
- with integrated buzzer for acoustic identification of the device within the system

Suitable for	Order no.	Page
Cover for 1-gang push-button module	8096 02	28
Temperature sensor	EK090	40
Optional		
Outdoor sensor	EK088	39

Order no.

Page



Design	Order no.	PU
Berker S.1/B.3/B.7		
Push-button module 1gang	8014 11 80	1
Berker Q.1/Q.3, K.1/K.5		
Push-button module 1gang	8014 11 70	1



Cover for	1aana	push-button	modula
Cover ior	Tualiu	pusii-buttoii	IIIOuule

<ul> <li>clear lens</li> </ul>	<ul> <li>with clear lens for RGB status display of the push-</li> </ul>
	button module

Suitable for



	Push-button module 1-gang	8014 11	28
Design	Order no.		PU
Berker S.1/B.3/B.7			
white glossy	8096 02 82		1
polar white glossy	8096 02 89		1
polar white, matt, plastic	8096 02 99		1
anthracite, matt	8096 02 85		1
aluminium, matt, lacquered	8096 02 83		1
Berker Q.1/Q.3			
white velvety	8096 02 22		1
polar white velvety	8096 02 29		1
anthracite velvety, lacquered	8096 02 26		1
aluminium velvety, lacquered	8096 02 21		1
Berker K.1/K.5			

	Berker K.1/K.5		
123	polar white glossy	8096 02 79	1
	anthracite, matt	8096 02 75	1
	aluminium, matt, lacquered	8096 02 71	1
	stainless steel matt, lacquered	8096 02 73	1







### Push-button module 2gang

- **RGB LED**
- internal temperature sensor
- integrated bus coupling unit



Operating voltage over bus Current consumption Operating temperature Insertion depth

21 ... 32 V=

- 5 ... + 45 °C

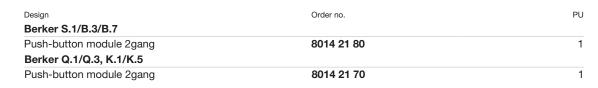
10 mA

32 mm



- brightness value of the status LED for day/nighttime operation preset, status LED for day/nighttime operation can be controlled via object
- operation LED can be configured via object
- operating concepts for button function and "roller shutter/blind function" predefined
- push-button functions: switching, dimming, roller shutter/blind, value transmitter 2 byte, thermostat, scene, priority
- value transmitter for temperature values 2 byte
- parameter defineable lock function
- function for manual interruption of automatic functions already triggered
- with programming button and red programming LED
- integrated temperature sensor with output of the measured values via object
- with integrated bus coupling unit
- bus connection via connecting terminal
- with anti-dismantling protection with integrated buzzer for acoustic identification of the device within the system

Suitable for	Order no.	Page
Cover for 2-gang push-button module	8096 03	29
Temperature sensor	EK090	40
Optional		
Outdoor sensor	EK088	39











Cover	for	2gang	push-button	module
COVCI	101	Lyang	pusii-buttoii	IIIOddic

Governor againg paon station module				
- clear lenses	<ul> <li>with 2 clear lenses for the RGB status display of the push-button module</li> </ul>			
*	<b>Suitable for</b> Push-button module 2-gang	<b>Order no.</b> 8014 21	Page 29	
Design	Order no.		PU	
Berker S.1/B.3/B.7				
white glossy	8096 03 82		1	
polar white glossy	8096 03 89		1	
polar white, matt, plastic	8096 03 99		1	
anthracite, matt	8096 03 85		1	
aluminium, matt, lacquered	8096 03 83		1	
Berker Q.1/Q.3				
white velvety	8096 03 22		1	
polar white velvety	8096 03 29		1	
anthracite velvety, lacquered	8096 03 26		1	
aluminium velvety, lacquered	8096 03 21		1	
Berker K.1/K.5				
polar white glossy	8096 03 79		1	
anthracite, matt	8096 03 75		1	
aluminium, matt, lacquered	8096 03 71		1	
stainless steel matt, lacquered	8096 03 73		1	



### **Motion detectors**

### **KNX** motion detector



### KNX motion detector module 1.1 m

- internal temperature sensor
- integrated bus coupling unit



Operating voltage over bus	21 32 V=
Current consumption KNX	max. 10 mA
Nominal mounting height	1.1 m
Delay time, adjustable	10 s 30 min
Response brightness, adjustable	$\approx 51000$ lx, $\infty$ lx (day)
Detection angle, settable	each side $\approx$ 45 90 $^{\circ}$
Detection field, rectangular shaped	≈ 12 x 16 m
Operating temperature	- 5 + 45 °C

Automatic triggering of bus functions for movement within the detection area or manual control via integrated button.

Continuous direct sunlight penetrating the upwardpointing detection plane can result in failure of the motion detector.

Only suitable for indoor areas!

KNX motion detector module 1.1 m

KNX motion detector module 1.1 m

- with 3 operating modes: automatic/permanent ON/ permanent OFF
- Master/Slave operation for covering large detection areas
- with test mode
- with button for automatic/permanent ON/permanent OFF
- operating mode display via status LED, red/green/ orange
- two function channels for brightness-dependent functions
- additional channel for independent of brightness detector mode
- output of the brightness value via object possible

Order no.

8096 04 ..

Page

1

- with integrated bus coupling unit
- bus connection via connecting terminal
- with dismantling protection

Cover for KNX motion detector module

Order no.	PU
8026 21 80	1





### Berker R.1/R.3

Berker S.1/B.3/B.7

Berker Q.1/Q.3, K.1/K.5

Design

KNX motion detector module 1.1 m 8026 21 60 1

8026 21 70





### KNX motion detector module 2.2 m

- internal temperature sensor
- integrated bus coupling unit



Delay time, adjustable 10 s ... 30 min Response brightness, adjustable  $\approx 5...1000 \text{ lx}, \infty \text{ lx (day)}$  Detection angle, settable each side  $\approx 45 \dots 90 \,^{\circ}$ 

Detection field, rectangular shaped

Operating temperature - 5 ... + 45 °C

Automatic triggering of bus functions for movement within the detection area or manual control via integrated button.

Continuous direct sunlight penetrating the upwardpointing detection plane can result in failure of the motion detector.

Only suitable for indoor areas!

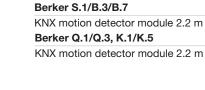
- with 3 operating modes: automatic/permanent ON/ permanent OFF
- Master/Slave operation for covering large detection areas
- with test mode
- with button for automatic/permanent ON/permanent OFF
- operating mode display via status LED, red/green/ orange
- two function channels for brightness-dependent functions
- additional channel for independent of brightness detector mode
- output of the brightness value via object possible
- with integrated bus coupling unit
- bus connection via connecting terminal
- with dismantling protection

Suitable for	Order no.	Page
Cover for KNX motion detector module	8096 04	31

Order no.

8026 21 ..





Design

### Berker R 1/R 3

anthracite, matt

aluminium, matt, lacquered

stainless steel matt, lacquered

KNX motion detector module 2.2 m	8026 22 60

Order no.

8026 22 80

8026 22 70

Suitable for

8096 04 75

8096 04 71

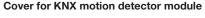
8096 04 73

KNX motion detector module 1.1 m

 $\approx 8 \times 12 \text{ m}$ 







	KNX motion detector module 2.2 m	8026 22	31
Design	Order no.		PU
Berker S.1/B.3/B.7			
white glossy	8096 04 52		1
polar white glossy	8096 04 59		1
anthracite, matt	8096 04 85		1
aluminium, matt, lacquered	8096 04 83		1
polar white matt	8096 04 09		1
Berker Q.1/Q.3			
white velvety	8096 04 22		1
polar white velvety	8096 04 29		1
anthracite velvety, lacquered	8096 04 26		1
aluminium velvety, lacquered	8096 04 21		1
Berker K.1/K.5			
polar white glossy	8096 04 79		1



1

PU

1

1

30

### KNX wall-mounted input devices

### Motion detectors





Design Berker R.1/R.3	Order no.	PU
polar white glossy	8096 04 60	1
black glossy	8096 04 65	1



### KNX motion detector module comfort 1.1 - integrated bus coupling unit

Operating voltage over bus  $21 \dots 29 \text{ V=}$  Nominal mounting height 1.1 m Delay time adjustable  $1 \dots 30 \text{ min}$  Response brightness, adjustable  $\approx 5 \text{ to } 1000 \text{ lux}$  Detection field, rectangular shaped  $\approx 10 \times 10 \text{ m}$  Operating temperature  $-5^{\circ}\text{C} \dots +45^{\circ}\text{C}$ 

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

Automatic triggering of bus functions for movement within the detection area or manual control via integrated button.

- push-button function: switching functions, dimming functions, blind control functions, value transmitter functions, forced control functions, scene functions
- specification of the controller operating mode
- operating mode display via status LED, red/green/ orange
- operating modes: automatic, permanent ON, ON for 2 hours, permanent OFF
- two separated function channels for brightnessdependent and brightness-independent functions
- integrated button for manual control of bus functions can be configured

Order no.

7596 28 6.

32

- with button for automatic/permanent ON/ON for 2 hours/permanent OFF
- bus connection via connecting terminal
- with dismanting protection

Cover for KNX motion detector module

Design	Order no.	U

Suitable for





Cover for KNX motion detector module			
	Suitable for KNX motion detector module comfort 1.1 m	<b>Order no.</b> 7524 20 60	Page 32
Design Berker R.1/R.3	Order no.		PU
polar white glossy	7596 28 69		1
black glossy	7596 28 65		1





### KNX thermostat and room controller



### **KNX** thermostat

- display
- integrated bus coupling unit



Operating voltage over bus	21 32 V=
Auxiliary voltage	24 V=
Energy efficiency class	IV (2%)
TFT screen size	1.93"
Operating temperature	- 5 + 45 °C
Dimensions of display (W x H)	38.3 x 30.3 mm
Insertion depth	32 mm

- for individual single room temperature control
- control parameter for heating/cooling unit pre-set
- operating mode heating, cooling or heating/cooling can be selected
- comfort, standby, night-time reduction, frost/heat protection operating mode switchable via scene
- switching PI-control (PWM) or switching 2-point control can be selected
- heating type warm water heating, warm water underfloor heating, electric heating, electric underfloor heating or split unit can be selected
- cooling type cooling ceiling, convector fan or split unit can be selected
- switching of up to 64 scenes possible
- with keylock
- with holiday switching
- with frost protection function
- additional connection for external temperature sensor
- temperature measurement via internal, external temperature sensor or via object and their mean value formation
- temperature adjustable for comfort, standby and night-time reduction
- operation via sensitive Touch control surface
- to display and initiate actions
- display of operating mode, controller lockout, room/ outside temperature, time
- screensavers
- TFT colour display with symbol display
- time and date display
- menu guidance in DE/EN/FR/NL/IT/ES/PT/PL/DK/SV/ FI/NO/TR
- with integrated bus coupling unit
- bus connection via connecting terminal
- with spreader claws

Suitable for	Order no.	Page
Cover for KNX thermostats and room controllers	8096 01	34
Power supply 1x30V, 320 mA + 1x24V, 640 mA RMD	TXA114	137
Electrical power supply 24 V DC RMD  Optional	TGA200	138
	F1/000	40
Temperature sensor	EK090	40
Outdoor temperature sensor	EK088	39
Order no		PI

KNX thermostat 8044 01 00

### KNX thermostat and room controller





### **KNX** room controller

- display
- integrated bus coupling unit



Operating voltage over bus Auxiliary voltage Energy efficiency class TFT screen size Operating temperature

Dimensions of display (W x H) Insertion depth

21 ... 32 V= 24 V= IV (2%) 1.93"

- 5 ... + 45 °C 38.3 x 30.3 mm 32 mm

- for individual single room temperature control
- control parameter for heating/cooling unit pre-set
- operating mode heating, cooling or heating/cooling can be selected
- comfort, standby, night-time reduction, frost/heat protection operating mode switchable via scene
- switching Pl-control (PWM) or switching 2-point control can be selected
- heating type warm water heating, warm water underfloor heating, electric heating, electric underfloor heating or split unit can be selected
- cooling type cooling ceiling, convector fan or split unit can be selected
- push-button functions: switching, dimming, roller shutter/blind, value transmitter 2 byte, thermostat, scene, priority
- switching of up to 64 scenes possible
- with keylock
- with holiday switching
- with frost protection function
- function for manual interruption of automatic functions already triggered
- additional connection for external temperature sensor
- temperature measurement via internal, external temperature sensor or via object and their mean value formation
- temperature adjustable for comfort, standby and night-time reduction
- operation via sensitivouch control surface
- to display and initiate actions
- display of operating mode, controller lockout, room/ outside temperature, time
- screensavers
- TFT colour display with symbol display
- time and date display
- menu guidance in DE/EN/FR/NL/IT/ES/PT/PL/DK/SV/FI/NO/TR
- with integrated bus coupling unit
- bus connection via connecting terminal
- with spreader claws

Suitable for	Order no.	Page
Cover for KNX thermostats and room controllers	8096 01	34
Power supply 1x30V, 320 mA + 1x24V, 640 mA RMD	TXA114	137
Electrical power supply 24 V DC RMD	TGA200	138
Optional		
Temperature sensor	EK090	40
Outdoor temperature sensor	EK088	39
Order no.		PU
8066 01 00		1



### Cover for KNX thermostats and room controllers

KNX room controller

Design	Order no.	PU
Berker S.1/B.3/B.7		
white glossy	8096 01 82	1
polar white glossy	8096 01 89	1
polar white, matt, plastic	8096 01 80	1
anthracite, matt	8096 01 85	1
aluminium matt, lacquered	8096 01 83	1
Berker Q.1/Q.3		
white velvety	8096 01 22	1
polar white velvety	8096 01 29	1
anthracite velvety, lacquered	8096 01 26	1
aluminium velvety, lacquered	8096 01 21	1









Design	Order no.	PU
Berker K.1/K.5		
polar white glossy	8096 01 79	1
anthracite, matt	8096 01 75	1
aluminium, matt, lacquered	8096 01 71	1
stainless steel matt, lacquered	8096 01 73	1

### **KNX Touch Control**



### **KNX Touch Control**

- display
- integrated bus coupling unit

14:23

Operating voltage via bus Auxiliary voltage TFT screen size Display resolution Power consumption, KNX Operating temperature Assembly height Dimensions (W x H x D)

21/32 V DC 12/40 V DC 3.5" 320 x 240 px ~ 1 mW 0/50 °C 25,5 mm 95/75/44 mm

- up to 10 pages for operating elements and display selection from 37 predefined layouts
- capacitive 3.5" touch display, resolution of 320 x 240
- integrated proximity sensor for quick activation of the display from standby mode and for triggering functions via a corresponding communication object
- integrated brightness sensor for automatic adjustment of the display lighting
- integrated scene control (16 scenes), timer, alarm clock
- 5 automatic channels for regulation and control (e.g. room temperature control via the KNX temperature sensor of the new push-button sensors)
- 4 AND as well as 4 OR logic gates with 4 inputs each (communication objects)
- 4 inputs for binary contact or temperature sensor
- microSD card slot e.g. as memory for image data for
- icons for display can be replaced (icon library, microSD card)

Order no.

8096 01 ..

Page

	controllers		
	Power supply 1x30V, 320 mA + 1x24V, 640 mA RMD	TXA114	137
	Electrical power supply 24 V DC RMD Optional	TGA200	138
	Temperature sensor	EK090	40
	Outdoor temperature sensor	EK088	39
Design	Order no.		PU
KNX Touch Control	7574 01 01		1
Angular design frame			
polar white matt	1319 19 09		1
stainless steel matt finish	1319 22 04		1
black, glossy	1319 22 45		1
aluminium, anodised	1319 22 84		1
stainless steel brushed	1319 36 06		1
white matt	1319 60 99		1
glass, aluminium	1319 64 14		1
aluminium matt, lacquered	1319 64 24		1
glass, black	1319 66 16		1
glass, polar white	1319 69 09		1
anthracite, matt	1319 70 06		1
polar white, glossy	1319 70 09		1
white, glossy	1319 89 82		1
Round design frame			
stainless steel matt finish	1319 21 04		1
glass, polar white	1319 21 09		1
glass, black	1319 21 16		1
black, glossy	1319 21 45		1
aluminium, anodised	1319 21 84		1
polar white, glossy	1319 21 89		1
white matt	1319 60 82		1
aluminium matt, lacquered	1319 60 84		1
anthracite matt	1319 60 86		1
polar white matt	1319 60 89		1

Suitable for

Cover for KNX thermostats and room controllers





Design

En Ocean wireless

### KNX EnOcean



### **KNX EnOcean**



### EnOcean wireless wall-transmitter module

- single-surface operation in conjunction with suitable wireless receivers
- for the transmission of switching, dimming or blind commands to the wireless receiver of the EnOcean system
- each channel can be assigned to any number of wireless receivers
- provision of transmission energy through conversion of the mechanical energy on button actuation
- batteryless, maintenance-free device without external power supply
- with fitting material
- mounting with frames on even surface, e.g. also for extension of combinations

- for scre	w or adhes	sive fixing
------------	------------	-------------

2411 12 00		1
Order no.		PU
Optional KNX EnOcean gateway AP	TYC120	37

Order no.

Page

F n

Rocker for EnOcean wireless wall-transmitter module	Suitable for EnOcean wireless wall-transmitter module	<b>Order no.</b> 2411 12 00	<b>Page</b> 36
Design Berker S.1/B.3/B.7	Order no.		PU
white glossy	2411 11 89		10
0 ,			
polar white glossy	2411 11 09		10
anthracite, matt	2411 11 06		10



Rocker with imprinted arrows symbol for EnOcean wireless wall-transmitter module	Suitable for EnOcean wireless wall-transmitter module	<b>Order no.</b> 2411 12 00	<b>Page</b> 36
Design	Order no.		PU
Berker S.1/B.3/B.7			
white glossy	2411 12 89		10
polar white glossy	2411 12 09		10
anthracite, matt	2411 12 06		10



Rocker 2gang for EnOcean wireless walltransmitter module	Suitable for EnOcean wireless wall-transmitter module	<b>Order no.</b> 2411 12 00	Page 36
Design Berker S.1/B.3/B.7	Order no.		PU
white glossy	2412 11 89		10
polar white glossy	2412 11 09		10
anthracite, matt	2412 11 06		10



Rocker 2gang with imprinted arrows symbol for EnOcean wireless wall-transmitter module	Suitable for EnOcean wireless wall-transmitter module	<b>Order no.</b> 2411 12 00	<b>Page</b> 36
Design	Order no.		PU
Berker S.1/B.3/B.7			
white glossy	2412 12 89		10
polar white glossy	2412 12 09		10
anthracite, matt	2412 12 06		10





Rocker 2gang on one side with imprinted arrows symbol for EnOcean wireless walltransmitter module gang with imprinted arrows symbol	Suitable for EnOcean wireless wall-transmitter module	<b>Order no.</b> 2411 12 00	<b>Page</b> 36
Design Berker S.1/B.3/B.7	Order no.		PU
white glossy	2412 13 89		10
polar white glossy	2412 13 09		10
anthracite, matt	2412 13 06		10



#### KNX EnOcean Gateway surface-mounted

Operating voltage over bus	21 32V=
Current consumption	ca. 12mA
Wireless transmission/reception frequency	868.3MHz (ASK)
Number of function channels	32
Operating temperature	-5 +45°C
Relative humidity	5 93%
Dimensions	81 x 81 x 25mm

Bi-directional gateway for transmission of EnOcean wireless signals to the KNX bus or of KNX telegrams into the EnOcean system.

- each channel can be configured with different functions
- EnOcean receiver functions for conversion into KNX telegrams: including switching, dimming, blind, light scene, window contacts, temperature values, brightness values, presence simulation, room control devices
- EnOcean transmission functions for the conversion of KNX telegrams: switching, dimming, blind, valve drives
- logic and control functions
- teaching-in of the wireless components using the buttons

and display

- LC display for commissioning and system diagnostics
- with programming button and red programming LED
- with integrated repeater for EnOcean transmission
- bus connection via connecting terminal
- installation possible on flush-mounted box

	Suitable for EnOcean wireless wall-transmitter module	<b>Order no.</b> 2411 12 00	Page 36
Design	Order no.		PU
white	TYC120		10



#### **Sensors**

#### **Thermostat**

- For individual single room temperature control
- For heating and/or cooling mode
- Heating or cooling possible in 2 stages
- Bus connection via connecting terminal
- For continuous (PI) or switched (2-point) control
- With dismantling protection
- 4 binary inputs or 2-3 binary inputs and 1-2 outputs parameterisable
- With 4 independent binary inputs for potential-free contacts e.g. window magnetic contact

max. 0.8 mA

-5 ... +45 °C

 $\pm~0~...~5~K$ 

max. 5 m

50 m

- Behaviour can be defined for bus voltage return
- Binary inputs / outputs with screw terminals
- Valve protection can be defined



#### **KNX** thermostat

- setting knob
- integrated bus coupling unit



Output current per channel Set value control by setting knob Operating temperature Cable length, inputs/outputs Sensor cable length

operating modes:comfort, standby, night lowering, frost/heat protection, dewpoint displayed with LED

- with presence button for switching between comfort and standby mode
- with programming button and red programming LED
- presence button and setting knob can be programmed to have no functions
- with status LEDs: red for heating, blue for cooling and yellow for activation

Order no.

Page

- without spreader claws

Suitable for

Binary input 4 parameter defineable for temperature sensor, order no. 161.	optional Temperature sensor	161	39
Design	Order no.		PU
Berker S.1/B.3/B.7			
white glossy	7544 11 52		1
polar white glossy	7544 11 59		1
polar white matt	7544 11 89		1
anthracite matt	7544 11 85		1
aluminium matt, lacquered	7544 11 83		1
Berker Q.1/Q.3			
white velvety	7544 11 22		1
polar white velvety	7544 11 29		1
anthracite velvety, lacquered	7544 11 26		1
aluminium	7544 11 24		1
Berker K.1/K.5			
polar white glossy	7544 11 79		1
anthracite matt, lacquered	7544 11 75		1
aluminium matt, lacquered	7544 11 71		1
stainless steel matt, lacquered	7544 11 73		1







- integrated bus coupling unit



Power supply

bus KNX/EIB 30V DC TBTS

- operating modes: comfort, standby, night lowering, frost/heat protected, dewpoint
- with programming button and programming LED
- red/blue LED (red for heating and blue for cooling)
- one input allows a floor temperature probe to be connected.



< 10 mAPower consumption Operating temperature 0 °C ... +45 °C Protection type IP21

Suitable for Order no. Page optional Temperature sensor FK0 39

Binary input 3 parameter defineable for temperature sensor, order EK087.

Design	Order no.	PU
white	TX320	1





#### KNX object thermostat

- integrated bus coupling unit



Output current per channel	max. 0.8 mA
Operating temperature	-5 +45 °C
Cable length, inputs/outputs	max. 5 m
Sensor cable length	50 m

Binary input 4 parameter defineable for temperature sensor, order no. 161.

operating modes: comfort, standby, night lowering, frost/heat protected, dewpoint

- with programming button and red programming LED

- without spreader claws

Order no.

7544 12 52

7544 12 59

7544 12 89

7544 12 85

7544 12 83

7544 12 22

7544 12 29

7544 12 26

7544 12 24

7544 12 79

7544 12 75 7544 12 71

7544 12 73

Suitable for

KNX room thermostat

Suitable for	Order no.	Page
optional Temperature sensor	161	39

PU

1

1

1

1

1

2

1

1

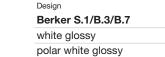
1

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1

1



polar white matt

anthracite matt

Berker Q.1/Q.3

Berker K.1/K.5

polar white glossy anthracite matt, lacquered

polar white velvety

white velvety

aluminium

aluminium matt, lacquered

anthracite velvety, lacquered

aluminium, aluminium anodised

stainless steel, metal matt finish





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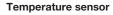
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SEE A	1	-	-	0











temperature sensor

Design

Characteristic resistance value at 25 °C  $33\;k\Omega$ Sensor cable length

- as replacement or function extension of products with suitable connection, such as thermostat, glass sensors or KNX thermostat 4 m

Suitable for	Order no.	Page
Glass sensors comfort		88
Glass sensors with thermostat		90
KNX thermostat		38
KNX object thermostat		39
Order no.		PU
161		1

Order no.

TX320







Temperature sensor	
Characteristic resistance value at 25 °C	100 kΩ
Max. distance between probe and thermostat	10 m
Sensor cable length	4 m

Design	Order no.	PU
temperature sensor	EK087	1



#### **Temperature sensors**

Design	Order no.	PU
outdoor sensor	EK088	1
indoor sensor	EK089	1





#### Temperature sensor

Characteristic resistance value at 25 °C  $$10\ k\Omega$$  Operating temperature  $$-40\ ...+80\ ^{\circ}C$$  Sensor cable length  $$4\ m$ 

 as replacement or function extension of products with suitable connection, such as thermostat, glass sensors or KNX thermostat

Suitable for	Order no.	Page
Push-button module 1gang	8014 11	28
Push-button module 2gang	8014 21	29
KNX thermostat	8044 01 00	33
KNX room controller	8066 01 00	34
Bus application unit flush-mounted	8004 00	18
Order no.		PU
EK090		1



Design	Order no.	PU
Temperature sensor	EK090	1

#### **CO2 Sensors**



#### **CO2 Sensors**

- integrated bus coupling unit

	₩	
1	₩	

Rated voltage KNX	DC 21 32 V SELV
Current consumption KNX	typical 12.5 mA
Operating temperature	-5 +45 °C
CO2 sensor measuring range	0 2000 ppm
Humidity sensors measuring range	10 95 %
Temperature sensors measuring range	-5 +45 °C

Output of the measured values as telegram to the bus, e.g. for controlling fans or window drives via KNX telegrams.

Recommendation: Use deep accessory sockets. The optimum installation height is approx. 1.5 m.

stainless steel, metal matt finish

- measurement of CO2 concentration, relative air humidity and air temperature
- operating modes Comfort, Standby, Night operation, Frost/heat protection
- dew point alarm for, for example, cooling blankets and conservatories, to avoid possible mould formation
- max of 4 different adjustable CO2 threshold values
- measurement of room temperature and comparison with setpoint temperature
- max of 2 adjustable humidity threshold values
- programming button and LEDs
- functions: dimming, shutter control, light scene extension unit, brightness or temperature value transmitter.

Order no.

- inputs lockable in operation

Suitable for

The optimum installation height is approx. 1.5 m.	Temperature sensor	161	39
Design	Order no.		PU
Berker S.1/B.3/B.7			
white glossy	7544 13 52		1
polar white glossy	7544 13 59		1
polar white matt	7544 13 89		1
anthracite matt	7544 13 85		1
aluminium matt, lacquered	7544 13 83		1
Berker Q.1/Q.3			
white velvety	7544 13 22		1
polar white velvety	7544 13 29		1
anthracite velvety, lacquered	7544 13 26		1
aluminium	7544 13 24		
Berker K.1/K.5			
polar white glossy	7544 13 79		1
anthracite matt, lacquered	7544 13 75		1
aluminium, aluminium anodised	7544 13 71		1

7544 13 73







# systo KNX





- labeling field
- integrated bus coupling unit



Rated voltage KNX

Current consumption KNX
Degree of protection
Operating temperature

Storage temperature Dimensions (W x H x D) (

DC 21...32V SELV type 20mA IP20

5/45 °C 20/70 °C 45/45/17 mm

- available in 3 colours: white, alu or black
- 2, 4 or 6 push-buttons versions
- push-button functions: switching/dimming, blind control, value transmitter, scene call-up, specification of the heating operating mode, forced control, sleeping switch and comparator function
- integrated bus coupling unit
- labeling field

Order no.

WST302

WST302N

**WST302T** 

- versions with LED and backlight available
- versions with IR receiver also available

	-

#### 4 push-buttons

2 push-buttons

white

black

alu

white	<b>WST304</b> 1
black	<b>WST304N</b> 1
alu	WST304T 1



#### 6 push-buttons

white	WST306	1
black	WST306N	1
alu	WST306T	1



#### 2 push-buttons with LED

white	WST312	1
black	WST312N	1
alu	WST312T	1



#### 4 push-buttons with LED

white	WST314
black	WST314N
alu	WST314T



#### 6 push-buttons with LED

white	WST316	1
black	WST316N	1
alu	WST316T	1



#### 2 push-buttons with LED and IR receiver

white	WST322	1
black	WST322N	1
alu	WST322T	1



### 4 push-buttons with LED and IR receiver

•		
white	WST324	1
black	WST324N	1
alu	WST324T	1

1 1

PU



#### systo PIR sensor KNX bus 2 channels

Detection angle 180° Response brightness 5 ... 1000 lux Delay time 10 s to 30 min Current consumption KNX 10 mA

Design	Order no.	PU
white	WST502	1
black	WST502N	1
alu	WST502T	1

# **Berker S.1 frames**



#### White frames

Design	Order no.	PU
glossy, 1gang	1011 89 82	10
glossy, 2gang	1012 89 82	10
glossy, 3gang	1013 89 82	10
glossy, 4gang	1014 89 82	2
glossy, 5gang	1015 89 82	2



#### Polar white frames

- for vertical and horizontal mounting

- for vertical and horizontal mounting

Design	Order no.	PU
glossy, 1gang	1011 89 89	10
glossy, 2gang	1012 89 89	10
glossy, 3gang	1013 89 89	10
glossy, 4gang	1014 89 89	2
glossy, 5gang	1015 89 89	2
matt, 1gang	1011 99 09	10
matt, 2gang	1012 99 09	10
matt, 3gang	1013 99 09	10
matt, 4gang	1014 99 09	10
matt, 5gang	1015 99 09	2



#### **Anthracite frames**

- for vertical and horizontal mounting

Design	Order no.	PU
matt, 1gang	1011 99 49	10
matt, 2gang	1012 99 49	10
matt, 3gang	1013 99 49	10
matt, 4gang	1014 99 49	2
matt, 5gang	1015 99 49	2



# **Aluminium frames**

Design	Order no.	PU
matt, 1gang	1011 99 39	10
matt, 2gang	1012 99 39	10
matt, 3gang	1013 99 39	10
matt, 4gang	1014 99 39	2
matt, 5gang	1015 99 39	2





#### **Red frames**

- for emphasising special switches, socket outlets, etc.
- for vertical and horizontal mounting

Design	Order no.	PU
glossy, 1gang	1011 89 62	10
glossy, 2gang	1012 89 62	2
glossy, 3gang	1013 89 62	2
glossy, 4gang	1014 89 62	2
glossy, 5gang	1015 89 62	2



#### White frames

- Labelling field



Labelling field height arranged for P-touch strips 6 mm.

Design	Order no.	PU
glossy, 1gang	1011 89 12	10
glossy, 2gang vertical	1012 89 12	10
glossy, 3gang vertical	1013 89 12	10
glossy, 2gang horizontal	1022 89 12	10
glossy, 3gang horizontal	1023 89 12	10



#### Polar white frames

- Labelling field



Labelling field height arranged for P-touch strips 6 mm.

Design	Order no.	PU
glossy, 1gang	1011 89 19	10
glossy, 2gang vertical	1012 89 19	10
glossy, 3gang vertical	1013 89 19	10
glossy, 2gang horizontal	1022 89 19	10
glossy, 3gang horizontal	1023 89 19	10
matt, 1gang	1011 99 19	10
matt, 2gang vertical	1012 99 19	10
matt, 3gang vertical	1013 99 19	10
matt, 2gang horizontal	1022 99 19	10
matt, 3gang horizontal	1023 99 19	10



#### **Anthracite frames**

- Labelling field



Labelling field height arranged for P-touch strips 6 mm.

Design	Order no.	PU
matt, 1gang	1011 99 69	10
matt, 2gang vertical	1012 99 69	10
matt, 3gang vertical	1013 99 69	10
matt, 2gang horizontal	1022 99 69	10
matt, 3gang horizontal	1023 99 69	10



Order no.

7566 37 85 7566 57 85 **Page** 25 25



#### **Aluminium frames**

- Labelling field



Labelling field height arranged for P-touch strips 6 mm.

Design	Order no.	PU
matt, 1gang	1011 99 59	10
matt, 2gang vertical	1012 99 59	10
matt, 3gang vertical	1013 99 59	10
matt, 2gang horizontal	1022 99 59	10
matt, 3gang horizontal	1023 99 59	10

# Frames with large cut-out

- For vertical mounting
- Not suitable for surface-mounted housing.



#### White frame with large cut-out

	Suitable for Push-button 3gang with thermostat Push-button 5gang with thermostat	<b>Order no.</b> 7566 37 80 7566 57 80	<b>Page</b> 25 25
Design	Order no.		PU
glossy	1309 89 82		10



# Polar white frames with large cut-out

	Suitable for Push-button 3gang with thermostat Push-button 5gang with thermostat	<b>Order no.</b> 7566 37 80 7566 57 80	<b>Page</b> 25 25
Design	Order no.		PU
glossy	1309 89 89		10
matt	1309 99 09		10



# Anthracite frame with large cut-out

Design	Order no.	PU
matt	1309 99 49	10

Suitable for

Push-button 3gang with thermostat Push-button 5gang with thermostat



# Aluminium frame with large cut-out

	Suitable for Push-button 3gang with thermostat Push-button 5gang with thermostat	<b>Order no.</b> 7566 37 85 7566 57 85	<b>Page</b> 25 25
Design	Order no.		PU
matt	1309 99 39		10



# **Berker B.3 frames**

- For vertical and horizontal mounting
- Metal, aluminum profile



#### Aluminium/polar white matt, aluminium anodised frames

Design	Order no.	PU
1gang	1011 39 04	10
2gang	1012 39 04	10
3gang	1013 39 04	10
4gang	1014 39 04	2
5gang	1015 39 04	2



#### Aluminium/anthracite matt, aluminium anodised frames

Design	Order no.	PU
1gang	1011 30 04	10
2gang	1012 30 04	10
3gang	1013 30 04	10
4gang	1014 30 04	2
5gang	1015 30 04	2



# Aluminium black/polar white matt, aluminium anodised frames

Design	Order no.	PU
1gang	1011 30 25	10
2gang	1012 30 25	10
3gang	1013 30 25	10
4gang	1014 30 25	2
5gang	1015 30 25	2



#### Aluminium black/anthracite matt, aluminium anodised frames

Design	Order no.	PU
1gang	1011 30 05	10
2gang	1012 30 05	10
3gang Sgang	1013 30 05	10
4gang	1014 30 05	2
5gang	1015 30 05	2



# Aluminium brown/polar white matt, aluminium anodised, frames

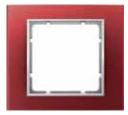
Design	Order no.	PU
1gang	1011 30 21	10
2gang	1012 30 21	10
3gang	1013 30 21	10
4gang	1014 30 21	2
5gang	1015 30 21	2





# Aluminium brown/anthracite matt, aluminium anodised frames

Design	Order no.	PU
1gang	1011 30 01	10
2gang	1012 30 01	10
3gang	1013 30 01	10
4gang	1014 30 01	2
5gang	1015 30 01	2



# Aluminium red/polar white matt, aluminium anodised frames

Design	Order no.	PU
1gang	1011 30 22	10
2gang	1012 30 22	10
3gang	1013 30 22	10
4gang	1014 30 22	2
5gang	1015 30 22	2



#### Aluminium red/anthracite matt, aluminium anodised frames

Design	Order no.	PU
1gang	1011 30 12	10
2gang	1012 30 12	10
3gang	1013 30 12	10
4gang	1014 30 12	2
5gang	1015 30 12	2



#### Aluminium gold/polar white matt, aluminium anodised frames

Design	Order no.	PU
1gang	1011 30 46	10
2gang	1012 30 46	10
3gang	1013 30 46	10
4gang	1014 30 46	2
5gang	1015 30 46	2



### Aluminium gold/anthracite matt, aluminium anodised frames

Design	Order no.	PU
1gang	1011 30 16	10
2gang	1012 30 16	10
3gang	1013 30 16	10
4gang	1014 30 16	2
5gang	1015 30 16	2



Frames with large	cut-out			
	<ul> <li>For vertical mounting</li> </ul>			
	Metal, aluminum profile			
	<ul> <li>Not suitable for surface-mounted housing.</li> </ul>			
	Aluminium/polar white matt, aluminium anodised	d frame		
		Suitable for	Order no.	Page
		Push-button 3gang with thermostat Push-button 5gang with thermostat	7566 37 80 7566 57 80	25 25
	Design	Order no.		PU
	with large cut-out	1309 39 04		1
	Aluminium/anthracite matt, aluminium anodised	frame		
		Suitable for	Order no.	Page
		Push-button 3gang with thermostat	7566 37 80	25
		Push-button 5gang with thermostat	7566 57 80	25
	Design	Order no.		PU
	with large cut-out	1309 30 04		1
	Aluminium black/polar white matt, aluminium an	odised frame		
		Suitable for	Order no.	Page
		Push-button 3gang with thermostat Push-button 5gang with thermostat	7566 37 80 7566 57 80	25 25
	Design	Order no.		PU
	with large cut-out	1309 30 25		1
	Aluminium black/anthracite matt, aluminium ano	odised frame		
	,		Oudense	<b>D</b>
W (**)		Suitable for Push-button 3gang with thermostat	<b>Order no.</b> 7566 37 85	Page 25
		Push-button 5gang with thermostat	7566 57 85	25
	Design	Order no.		PU
	with large cut-out	1309 30 05		1
	Aluminium brown/polar white matt, aluminium a	nodised frame		
		Suitable for Push-button 3gang with thermostat	Order no. 7566 37 80	Page 25
		Push-button 5gang with thermostat	7566 57 80	25
	Design	Order no.		PU
100	with large cut-out	1309 30 21		1
	-			



	Aluminium brown/anthracite matt, aluminium anodised frame			
		Suitable for Push-button 3gang with thermostat Push-button 5gang with thermostat	<b>Order no.</b> 7566 37 85 7566 57 85	<b>Page</b> 25 25
	Design	Order no.		PU
	with large cut-out	1309 30 01		1
7	Aluminium red/polar white matt, aluminium	anodised frame		
ш		Suitable for Push-button 3gang with thermostat Push-button 5gang with thermostat	<b>Order no.</b> 7566 37 80 7566 57 80	<b>Page</b> 25 25
	Design	Order no.		PU
	with large cut-out	1309 30 22		1
	Aluminium red/anthracite matt, aluminium a	anodised frame		
		Suitable for Push-button 3gang with thermostat Push-button 5gang with thermostat	<b>Order no.</b> 7566 37 85 7566 57 85	<b>Page</b> 25 25
	Design	Order no.		PU
	with large cut-out	1309 30 12		1
	Aluminium gold/polar white matt, aluminium	n anodised frame		
ш		Suitable for Push-button 3gang with thermostat Push-button 5gang with thermostat	<b>Order no.</b> 7566 37 80 7566 57 80	<b>Page</b> 25 25
	Design	Order no.		PU
	with large cut-out	1309 30 46		1
	Aluminium gold/anthracite matt, aluminium	anodised frame		
		Suitable for Push-button 3gang with thermostat Push-button 5gang with thermostat	<b>Order no.</b> 7566 37 85 7566 57 85	<b>Page</b> 25 25
	Design	Order no.		PU
	with large cut-out	1309 30 16		1



# **Berker B.7 frames**

- Not suitable for surface-mounted housing
- For vertical and horizontal mounting



#### Polar white frames

	<ul><li>plastic</li></ul>	
Design	Order no.	PU
matt, 1gang	1011 69 19	10
matt, 2gang	1012 69 19	5
matt, 3gang	1013 69 19	5
matt, 4gang	1014 69 19	1
matt, 5gang	1015 69 19	1



#### **Anthracite frames**

	- plastic	
Design	Order no.	PU
matt, 1gang	1011 66 26	10
matt, 2gang	1012 66 26	5
matt, 3gang	1013 66 26	5
matt, 4gang	1014 66 26	1
matt, 5gang	1015 66 26	1



#### **Aluminium frames**

	- plastic	
Design	Order no.	PU
matt, lacquered, 1gang	1011 64 24	10
matt, lacquered, 2gang	1012 64 24	5
matt, lacquered, 3gang	1013 64 24	5
matt, lacquered, 4gang	1014 64 24	1
matt, lacquered, 5gang	1015 64 24	1



### Aluminium/polar white matt, aluminium anodised frames

- metal, aluminum profile anodized

Design	Order no.	PU
1gang	1011 69 14	10
2gang	1012 69 14	5
3gang	1013 69 14	5
4gang	1014 69 14	1
5gang	1015 69 14	1



# Aluminium/anthracite matt, aluminium anodised frames

- metal, aluminum profile anodized

Design	Order no.	PU
1gang	1011 69 04	10
2gang	1012 69 04	5
3gang	1013 69 04	5
4gang	1014 69 04	1
5gang	1015 69 04	1





# Stainless steel/polar white matt, metal brushed frames

<ul><li>meta</li></ul>	ıl, stainle	ess stee	l, br	ushed
------------------------	-------------	----------	-------	-------

Design	Order no.	PU
1gang	1011 36 09	10
2gang vertical	1012 36 09	5
3gang vertical	1013 36 09	5
4gang vertical	1014 36 09	1
5gang vertical	1015 36 09	1
2gang horizontal	1022 36 09	5
3gang horizontal	1023 36 09	5
4gang horizontal	1024 36 09	1
5gang horizontal	1025 36 09	1



#### Stainless steel/anthracite matt, metal brushed frames

#### - metal, stainless steel, brushed

Design	Order no.	PU
1gang	1011 36 06	10
2gang vertical	1012 36 06	5
3gang vertical	1013 36 06	5
4gang vertical	1014 36 06	1
5gang vertical	1015 36 06	1
2gang horizontal	1022 36 06	5
3gang horizontal	1023 36 06	5
4gang horizontal	1024 36 06	1
5gang horizontal	1025 36 06	1



# Glass polar white/polar white matt frames

# - toughened glass

Design	Order no.	PU
1gang	1011 69 09	10
2gang	1012 69 09	5
3gang	1013 69 09	5
4gang	1014 69 09	1
5gang	1015 69 09	1



# Glass black/anthracite matt frames

# toughened glass

Design	Order no.	PU
1gang	1011 66 16	10
2gang	1012 66 16	5
3gang	1013 66 16	5
4gang	1014 66 16	1
5gang	1015 66 16	1



# Glass aluminium/aluminium matt, lacquered frames

#### - toughened glass

Design	Order no.	PU
1gang	1011 64 14	10
2gang	1012 64 14	5
3gang	1013 64 14	5
4gang	1014 64 14	1
5gang	1015 64 14	



Frames with large cut-	-out			
	<ul><li>For vertical mounting</li><li>Not suitable for surface-mounted housing.</li></ul>			
	Polar white matt, lacquered frame			
		- plastic		
		Suitable for Push-button 3gang with thermostat Push-button 5gang with thermostat	<b>Order no.</b> 7566 37 80 7566 57 80	<b>Page</b> 25 25
	Parter	Onlynn		DII
	Design with large cut-out	Order no. 1309 69 19		PU 2
-	Anthracite matt, lacquered frame			
		- plastic		
ш		Suitable for Push-button 3gang with thermostat Push-button 5gang with thermostat	<b>Order no.</b> 7566 37 85 7566 57 85	<b>Page</b> 25 25
	Desire	Ordon		DII
	Design with large cut-out	Order no. 1309 66 26		PU 2
-	Aluminium matt, lacquered frame			
		- plastic		
ш		Suitable for Push-button 3gang with thermostat Push-button 5gang with thermostat	<b>Order no.</b> 7566 37 80 7566 57 80	<b>Page</b> 25 25
	Design	Order no.		PU
	with large cut-out	1309 64 24		2
	Aluminium/polar white matt, aluminium anodised frame	•		
		<ul> <li>metal, aluminum profile anodiz</li> </ul>	zed	
ш		Suitable for Push-button 3gang with thermostat Push-button 5gang with thermostat	<b>Order no.</b> 7566 37 80 7566 57 80	<b>Page</b> 25 25
	Design	Order no. 1309 69 14		PU 2
	with large cut-out	1309 69 14		2
	Aluminium/anthracite matt, aluminium anodised frame			
	,	- metal, aluminum profile anodiz	zed	
ш		Suitable for Push-button 3gang with thermostat Push-button 5gang with thermostat	<b>Order no.</b> 7566 37 85 7566 57 85	<b>Page</b> 25 25
	Design	Order no.		PU
	with large cut-out	1309 69 04		2



Stainless steel/polar white matt, metal brushed frame  - stainless steel surface, brushed transversely  Sultable for Push-button Spany with themsetal 7766 3 780 25 Push button Spany with themsetal 7766 3 780 25 Push button Spany with themsetal 7766 3 780 25 Push button Spany with themsetal 7766 3 780 25 Push button Spany with themsetal Push Push Push button Spany with themsetal transversely  Stainless steel/anthracite matt, metal brushed frame  - stainless steel surface, brushed transversely  Sultable for Order no. Push button Spany with themsetal Push Bu					
Design		Stainless steel/polar white matt, metal brushed frame			
Dissign			<ul> <li>stainless steel surface, brush</li> </ul>	ned transversely	
Stainless steel/anthracite matt, metal brushed frame			Push-button 3gang with thermostat	7566 37 80	25
Stainless steel/anthracite matt, metal brushed frame  - stainless steel surface, brushed transversely  Suitable for Push-button Spang with thermostat 7566 37 85 26 Push button Spang with thermostat 7566 37 85 26 Push button Spang with thermostat 7566 37 85 26 Push button Spang with thermostat 7566 37 85 26 Push button Spang with thermostat 7566 37 80 25 Push button Spang with thermostat 7566 37 80 25 Push button Spang with thermostat 7566 37 80 25 Push button Spang with thermostat 7566 37 85 25 Push button Spang with thermostat 7566 37 85 25 Push button Spang with thermostat 7566 37 85 25 Push button Spang with thermostat 7566 37 85 25 Push button Spang with thermostat 7566 37 85 25 Push button Spang with thermostat 7566 37 85 25 Push button Spang with thermostat 7566 37 85 25 Push button Spang with thermostat 7566 37 80 25 Push button Spang with thermostat 7566 37 80 25 Push button Spang with thermostat 7566 37 80 25 Push button Spang with thermostat 7566 37 80 25 Push button Spang with thermostat 7566 37 80 25 Push button Spang with thermostat 7566 37 80 25 Push button Spang with thermostat 7566 37 80 25 Push button Spang with thermostat 7566 37 80 25 Push button Spang with thermostat 7566 37 80 25 Push button Spang with thermostat 7566 37 80 25 Push button Spang with thermostat 7566 37 80 25 Push button Spang with thermostat 7566 37 80 25 Push button Spang with thermostat 7566 37 80 25		Design	Order no.		PU
Satishless steel surface, brushed transversely   Suitable for   Page		with large cut-out	1309 36 09		2
Design		Stainless steel/anthracite matt, metal brushed frame			
Push-button Sagang with thermostat   7566 37 85   25   25			- stainless steel surface, brush	ned transversely	
Calass polar white/polar white matt frame	ш		Push-button 3gang with thermostat	7566 37 85	25
Calass polar white/polar white matt frame					5
Calass polar white/polar white matt frame					
- toughened glass  Suitable for Push-button 3gang with thermostat 7566 37 80 25  Push-button 5gang with thermostat 7566 37 80 25  Push-button 5gang with thermostat 7566 37 80 25  Push-button 5gang with thermostat 7566 37 80 25  Glass black/anthracite matt frame  - toughened glass  Suitable for Push-button 5gang with thermostat 7566 37 85 25  Corder no. Put with large cut-out 1309 66 16 2   Glass aluminium/aluminium matt, lacquered frame  - toughened glass  Suitable for Push-button 5gang with thermostat 7566 37 80 25		with large cut-out	1309 36 06		2
Design		Glass polar white/polar white matt frame			
Design			<ul> <li>toughened glass</li> </ul>		
With large cut-out   1309 69 09   2	ш		Suitable for Push-button 3gang with thermostat	7566 37 80	25
Selign		Design	Order no.		PU
- toughened glass  Suitable for Order no. Page Push-button 3gang with thermostat 7566 37 85 25 Push-button 5gang with thermostat 7566 57 85 25  Push-button 5gang with thermostat 7566 57 85 25  Design Order no. PU  With large cut-out 1309 66 16 2  Glass aluminium/aluminium matt, lacquered frame  - toughened glass Suitable for Order no. Page Push-button 3gang with thermostat 7566 37 80 25 Push-button 5gang with thermostat 7566 57 80 25  Design Order no. Push-button 5gang with thermostat 7566 57 80 25			1309 69 09		
- toughened glass  Suitable for Order no. Page Push-button 3gang with thermostat 7566 37 85 25 Push-button 5gang with thermostat 7566 57 85 25  Push-button 5gang with thermostat 7566 57 85 25  Design Order no. PU  With large cut-out 1309 66 16 2  Glass aluminium/aluminium matt, lacquered frame  - toughened glass Suitable for Order no. Page Push-button 3gang with thermostat 7566 37 80 25 Push-button 5gang with thermostat 7566 57 80 25  Design Order no. Push-button 5gang with thermostat 7566 57 80 25		Glass black/anthracite matt frame			
Suitable for Push-button 3gang with thermostat Push-button 5gang with ther		Glass black alithracite matt frame	toughoned alass		
Push-button 3gang with thermostat 7566 37 85 25 Push-button 5gang with thermostat 7566 37 85 25 7566 57 85 25 7566 57 85 25 7566 57 85 25 7566 57 85 25 7566 57 85 25 7566 57 85 25 7566 57 85 25 7566 57 85 25 7566 57 85 25 7566 57 85 25 7566 57 85 25 7566 57 85 25 7566 57 85 25 7566 57 85 25 7566 57 85 25 7566 57 85 25 7566 57 80 25 7566					D
With large cut-out  Glass aluminium/aluminium matt, lacquered frame  - toughened glass  Suitable for Order no. Page Push-button 3gang with thermostat 7566 37 80 25 Push-button 5gang with thermostat 7566 57 80 25  Design  Order no. PU			Push-button 3gang with thermostat	7566 37 85	25
With large cut-out  Glass aluminium/aluminium matt, lacquered frame  - toughened glass  Suitable for Order no. Page Push-button 3gang with thermostat 7566 37 80 25 Push-button 5gang with thermostat 7566 57 80 25  Design  Order no. PU					
Glass aluminium/aluminium matt, lacquered frame  - toughened glass  Suitable for Order no. Page Push-button 3gang with thermostat 7566 37 80 25 Push-button 5gang with thermostat 7566 57 80 25  Order no. PU		Design	Order no.		PU
- toughened glass  Suitable for Order no. Page Push-button 3gang with thermostat 7566 37 80 25 Push-button 5gang with thermostat 7566 57 80 25  Design Order no. PU		with large cut-out	1309 66 16		2
- toughened glass  Suitable for Order no. Page Push-button 3gang with thermostat 7566 37 80 25 Push-button 5gang with thermostat 7566 57 80 25  Design Order no. PU		Glass aluminium/aluminium matt. lacquered frame			
Suitable for Order no. Page Push-button 3gang with thermostat 7566 37 80 25 Push-button 5gang with thermostat 7566 57 80 25  Design Order no. PU			<ul> <li>toughened glass</li> </ul>		
	ш		Suitable for Push-button 3gang with thermostat	7566 37 80	25
with large cut-out <b>1309 64 14</b> 2		Design	Order no.		PU
		with large cut-out	1309 64 14		2



Berker Q.1 fra	mes		
	White velvety frames		
		<ul> <li>for vertical and horizontal moun</li> </ul>	iting
	Design	Order no.	PU
	1gang	1011 60 82	10
	2gang	1012 60 82	10
	3gang	1013 60 82	2
	4gang	1014 60 82	2
	5gang	1015 60 82	2
	Polar white velvety frames		
		<ul> <li>for vertical and horizontal moun</li> </ul>	iting
	Donian	Order no.	PU
	Design 1gang	1011 60 89	10
	2gang	1012 60 89	10
	3gang	1013 60 89	2
	4gang	1014 60 89	2
	5gang	1015 60 89	2
	Anthracite velvety, lacquered frames		
		<ul> <li>for vertical and horizontal moun</li> </ul>	ting
	Design	Order no.	PU
	1gang	1011 60 86	10
	2gang	1012 60 86	10
	3gang	1013 60 86	2
	4gang	1014 60 86	2
	5gang	1015 60 86	2
	Aluminium frames		
		<ul> <li>for emphasising special switche</li> <li>for vertical and horizontal moun</li> </ul>	
	Design	Order no.	PU
	1gang	1011 60 84	10
	2gang	1012 60 84	10
	3gang	1013 60 84	2
	4gang	1014 60 84	2
	5gang	1015 60 84	2





#### Red velvety frames

- for emphasising special switches, socket outlets, etc.
- for vertical and horizontal mounting

Design	Order no.	PU
1gang	1011 60 62	10
2gang	1012 60 62	10
3gang	1013 60 62	2
4gang	1014 60 62	2
5gang	1015 60 62	2



#### White velvety frames

- Labelling field



Labelling field height arranged for P-touch strips 6 mm.

Design	Order no.	PU
1gang	1011 60 12	10
2gang vertical	1012 60 12	10
3gang vertical	1013 60 12	10
4gang vertical	1014 60 12	2
5gang vertical	1015 60 12	2
2gang horizontal	1022 60 12	10
3gang horizontal	1023 60 12	10
4gang horizontal	1024 60 12	2
5gang horizontal	1025 60 12	2



#### Polar white velvety frames

- Labelling field



Labelling field height arranged for P-touch strips 6 mm.

Design	Order no.	PU
1gang	1011 60 19	10
2gang vertical	1012 60 19	10
3gang vertical	1013 60 19	10
4gang vertical	1014 60 19	2
5gang vertical	1015 60 19	2
2gang horizontal	1022 60 19	10
3gang horizontal	1023 60 19	10
4gang horizontal	1024 60 19	2
5gang horizontal	1025 60 19	2



#### **Aluminium frames**

- Labelling field



Labelling field height arranged for P-touch strips 6 mm.

Design	Order no.	PU
1gang	1011 60 14	10
2gang vertical	1012 60 14	10
3gang vertical	1013 60 14	10
4gang vertical	1014 60 14	2
5gang vertical	1015 60 14	2
2gang horizontal	1022 60 14	10
3gang horizontal	1023 60 14	10
4gang horizontal	1024 60 14	2
5gang horizontal	1025 60 14	2





# Anthracite velvety, lacquered frames

- Labelling field

Liete Dur

Labelling field height arranged for P-touch strips 6 mm.

Design	Order no.	PU
1gang	1011 60 16	10
2gang vertical	1012 60 16	10
3gang vertical	1013 60 16	10
4gang vertical	1014 60 16	2
5gang vertical	1015 60 16	2
2gang horizontal	1022 60 16	10
3gang horizontal	1023 60 16	10
4gang horizontal	1024 60 16	2
5gang horizontal	1025 60 16	2

# Frames with large cut-out



#### White velvety frame

with large cut-out	1309 60 82		10
Design	Order no.		PU
	Push-button 5gang with thermostat	7566 57 29	27
	Push-button 3gang with thermostat	7566 37 29	26
	Suitable for	Order no.	Page
Not suitable for surface-mounted frames.	<ul> <li>for vertical mounting</li> </ul>		



#### Polar white velvety frame

with large cut-out

Suitable for Order no. Page
Push-button 3gang with thermostat 7566 37 29 26
Push-button 5gang with thermostat 7566 57 29 27

Design Order no. PU

1309 60 89

- for vertical mounting



#### Anthracite velvety, lacquered frame

Not suitable for surface-mounted frames.

Not suitable for surface-mounted frames.

- for vertical mounting

Suitable for Push-button 3gang with thermostat Push-button 5gang with thermostat 7566 37 26

Push-button 5gang with thermostat 7566 57 26

Design	Order no.	PU
with large cut-out	1309 60 86	10



#### Aluminium, lacquered frame

Not suitable for surface-mounted frames. - for vertical mounting

	Suitable for Push-button 3gang with thermostat Push-button 5gang with thermostat	<b>Order no.</b> 7566 37 26 7566 57 26	<b>Page</b> 26 27
Design	Order no.		PU
with large cut-out	1309 60 84		10

10

Page 26

27

4gang

5gang



2

#### **Berker Q.3 frames** White velvety frames - for vertical and horizontal mounting Design Order no. PU 1gang 1011 60 92 10 2gang 1012 60 92 2 2 3gang 1013 60 92 1014 60 92 2 4gang 2 5gang 1015 60 92 Polar white velvety frames - for vertical and horizontal mounting PU Design Order no. 1011 60 99 10 1gang 2 1012 60 99 2gang 2 3gang 1013 60 99 2 4gang 1014 60 99 5gang 1015 60 99 2 Anthracite velvety, lacquered frames - for vertical and horizontal mounting PU Design Order no. 1011 60 96 10 1gang 1012 60 96 2 2gang 2 1013 60 96 3gang 2 4gang 1014 60 96 5gang 1015 60 96 2 Aluminium, lacquered frames - for vertical and horizontal mounting PU Design Order no. 1011 60 94 10 1gang 2 2gang 1012 60 94 2 3gang 1013 60 94 2

1014 60 94

1015 60 94





#### White velvety frames

- Labelling field



When the frame has been dismantled, the labelling field remains on the insert.

For inserts with order no. 4522, 4523, 4593, 4594, mounting of the labelling field on the supporting ring is not possible.

For this, the labelling field can be engaged in the recess

of the frame.		
Design	Order no.	PU
1gang	1051 60 92	10
2gang horizontal	1022 60 92	10
2gang vertical	1052 60 92	10

1023 60 92

1053 60 92



#### Polar white velvety frames

- Labelling field

3gang horizontal

3gang vertical



When the frame has been dismantled, the labelling field remains on the insert.

For inserts with order no. 4522, 4523, 4593, 4594, mounting of the labelling field on the supporting ring is not possible.

For this, the labelling field can be engaged in the recess of the frame.  $\,$ 

Design	Order no.	PU
1gang	1051 60 99	10
2gang horizontal	1022 60 99	10
2gang vertical	1052 60 99	10
3gang horizontal	1023 60 99	10
3gang vertical	1053 60 99	10



#### **Aluminium velvety frames**

- Labelling field



When the frame has been dismantled, the labelling field remains on the insert.

For inserts with order no. 4522, 4523, 4593, 4594, mounting of the labelling field on the supporting ring is not possible.

not possible.
For this, the labelling field can be engaged in the recess of the frame.

Design	Order no.	PU
1gang	1051 60 94	10
2gang horizontal	1022 60 94	10
2gang vertical	1052 60 94	10
3gang horizontal	1023 60 94	10
3gang vertical	1053 60 94	10

also suitable for cable ducts

- also suitable for cable ducts

10

10

# KNX wall-mounted input devices Berker Q.3 frames



Frames with large cut	t-out			
	White velvety frame			
	Not suitable for surface-mounted frames.	<ul> <li>for vertical mounting</li> </ul>		
		Suitable for Push-button 3gang with thermostat Push-button 5gang with thermostat	<b>Order no.</b> 7566 37 29 7566 57 29	<b>Page</b> 26 27
	Design	Order no.		PU
	with large cut-out	1309 60 92		2
	Polar white velvety frame			
	Not suitable for surface-mounted frames.	<ul> <li>for vertical mounting</li> </ul>		
		Suitable for Push-button 3gang with thermostat Push-button 5gang with thermostat	<b>Order no.</b> 7566 37 29 7566 57 29	<b>Page</b> 26 27
	Design	Order no.		PU
	with large cut-out	1309 60 99		2
	Anthracite velvety, lacquered frame			
	Not suitable for surface-mounted frames.	<ul> <li>for vertical mounting</li> </ul>		
ш		Suitable for Push-button 3gang with thermostat Push-button 5gang with thermostat	<b>Order no.</b> 7566 37 26 7566 57 26	<b>Page</b> 26 27
	Design	Order no.		PU
	with large cut-out	1309 60 96		1
	Aluminium, lacquered frame			
	Not suitable for surface-mounted frames.	<ul> <li>for vertical mounting</li> </ul>		
11		Suitable for Push-button 3gang with thermostat Push-button 5gang with thermostat	<b>Order no.</b> 7566 37 26 7566 57 26	<b>Page</b> 26 27
	Design	Order no.		PU
	with large cut-out	1309 60 94		1



# **Berker Q.7 frames**



#### Aluminium, aluminium anodised frames

- for vertical and horizontal mounting

Design	Order no.	PU
1gang	1011 60 74	1
2gang	1012 60 74	1
3gang	1013 60 74	1
4gang 5gang	1014 60 74	1
5gang	1015 60 74	1



# Stainless steel, brushed frames

- for vertical and horizontal mounting

Design	Order no.	PU
1gang	1011 60 83	1
2gang vertical	1012 60 83	1
3gang vertical	1013 60 83	1
4gang vertical	1014 60 83	1
5gang vertical	1015 60 83	1
2gang horizontal	1022 60 83	1
3gang horizontal	1023 60 83	1
4gang horizontal	1024 60 83	1
5gang horizontal	1025 60 83	1



#### Glass, polar white frames

- for vertical and horizontal mounting

Design	Order no.	PU
1gang	1011 60 79	1
2gang	1012 60 79	1
3gang	1013 60 79	1
4gang	1014 60 79	1
5gang	1015 60 79	1



# Glass, black frames

- for vertical and horizontal mounting

Design	Order no.	PU
1gang	1011 60 76	1
2gang	1012 60 76	1
3gang	1013 60 76	1
4gang	1014 60 76	1
5gang	1015 60 76	1



#### Anthracite, natural slate frames

- for vertical and horizontal mounting

Design	Order no.	PU
1gang	1011 60 30	1
2gang	1012 60 30	1
3gang	1013 60 30	1



#### Grey, concrete structured frames

Design	Order no.	PU
1gang	1011 60 20	1
2gang	1012 60 20	1
3gang	1013 60 20	1

# **KNX** wall-mounted input devices Berker Q.7 frames



Aluminium, aluminium anodised frame Not suitable for surface-mounted housing.  Design With large cut-out  Stainless steel, brushed frame Not suitable for surface-mounted housing.  - for vertical mounting  - for vertical mounting	PU 1 1 PU 1
with large cut-out 1309 60 74  Stainless steel, brushed frame	1 PU
Stainless steel, brushed frame	PU
Not suitable for surface-mounted housing. – for vertical mounting	
Design Order no.	1
with large cut-out 1309 60 83	
Glass, polar white frame	
Not suitable for surface-mounted housing. – for vertical mounting	
Design Order no. with large cut-out 1309 60 79	PU 1
with large cut-out	'
Glass, black frame	
Not suitable for surface-mounted housing. – for vertical mounting	
Design Order no.	PU
with large cut-out 1309 60 76	1
Authoratita matrical plata from a	
Anthracite, natural slate frame  Not suitable for surface-mounted housing. – for vertical mounting	
Design Order no.	DLI
Design Order no.  with large cut-out 1309 60 30	PU 1
Grey, concrete structured frame	
Not suitable for surface-mounted housing. – for vertical mounting	
Design Order no.	PU
with large cut-out 1309 60 20	1



# Berker K.1/K.5 frames



# Polar white glossy frames

- for vertical and horizontal mounting

Design	Order no.	PU
1gang	1313 70 09	10
2gang vertical	1323 70 09	2
3gang vertical	1333 70 09	2
4gang vertical	1343 70 09	2
5gang vertical	1353 70 09	2
2gang horizontal	1363 70 09	2
3gang horizontal	1373 70 09	2
4gang horizontal	1383 70 09	2
5gang horizontal	1393 70 09	2



# Anthracite matt, lacquered frames

- for vertical and horizontal mounting

Design	Order no.	PU
1gang	1313 70 06	10
2gang vertical	1323 70 06	10
3gang vertical	1333 70 06	2
4gang vertical	1343 70 06	2
5gang vertical	1353 70 06	2
2gang horizontal	1363 70 06	10
3gang horizontal	1373 70 06	2
4gang horizontal	1383 70 06	2
5gang horizontal	1393 70 06	2



# Aluminium, aluminium anodised frames

Support plate thickness max. 2 mm - for vertical and horizontal mounting

Design	Order no.	PU
1gang	1313 70 03	10
2gang vertical	1323 70 03	2
3gang vertical	1333 70 03	2
4gang vertical	1343 70 03	2
5gang vertical	1353 70 03	2
2gang horizontal	1363 70 03	2
3gang horizontal	1373 70 03	2
4gang horizontal	1383 70 03	2
5gang horizontal	1393 70 03	2



Page

Page

25 25



#### Stainless steel, metal matt finish frames

- for vertical and horizontal mounting

Design	Order no.	PU
1gang	1313 70 04	10
2gang vertical	1323 70 04	2
3gang vertical	1333 70 04	2
4gang vertical	1343 70 04	2
5gang vertical	1353 70 04	2
2gang horizontal	1363 70 04	2
3gang horizontal	1373 70 04	2
4gang horizontal	1383 70 04	2
5gang horizontal	1393 70 04	2

#### Frames with large cut-out



# Polar white glossy frame

Not suitable for surface-mounted housing. – for vertical mounting

Push-button 3gang with thermostat	7566 37 70	25
Push-button 5gang with thermostat	7566 57 70	25

Order no.

Design	Order no.	PU
with large cut-out	1309 70 09	1

Suitable for



#### Anthracite matt, lacquered frame

Not suitable for surface-mounted housing. – for vertical mounting

Suitable for	Order no.	Pag
Push-button 3gang with thermostat	7566 37 75	2
Push-button 5gang with thermostat	7566 57 75	2

Design	Order no.	PU
with large cut-out	1309 70 06	1



#### Aluminium, aluminium anodised frame

Not suitable for surface-mounted housing. - for vertical mounting

Suitable for	Order no.	Page
Push-button 3gang with thermostat	7566 37 74	25
Push-button 5gang with thermostat	7566 57 74	25

Design	Order no.	PU
with large cut-out	1309 70 03	1



#### Stainless steel, metal matt finish frame

Not suitable for surface-mounted housing.

Suitable for Push-button 3gang with thermostat 7566 37 73 Push-button 5gang with thermostat 7566 57 73

Design	Order no.	PU
with large cut-out	1309 70 04	1



# **Berker R.1 frames**



# Polar white glossy frames

- for vertical and horizontal mounting

Design	Order no.	PU
1gang	1011 21 89	10
2gang	1012 21 89	2
3gang	1013 21 89	2
4gang	1014 21 89	2
5gang	1015 21 89	2



#### Black glossy frames

- for vertical and horizontal mounting

Design	Order no.	PU
1gang	1011 21 45	10
2gang	1012 21 45	2
3gang	1013 21 45	10
4gang	1014 21 45	2
5gang	1015 21 45	2



# Aluminium/polar white frames

- for vertical and horizontal mounting

Design	Order no.	PU
1gang	1011 21 74	10
2gang	1012 21 74	10
3gang	1013 21 74	10
4gang 5gang	1014 21 74	2
5gang	1015 21 74	2



#### Aluminium/black frames

Design	Order no.	PU
1gang	1011 21 84	10
2gang	1012 21 84	10
3gang	1013 21 84	10
4gang	1014 21 84	2
5gang	1015 21 84	2





#### Stainless steel/polar white frames

- for vertical and horizontal mounting

Design	Order no.	PU
1gang	1011 21 14	10
1gang 2gang	1012 21 14	10
3gang	1013 21 14	10
4gang	1014 21 14	2
5gang	1015 21 14	2



#### Stainless steel/black frames

- for vertical and horizontal mounting

Design	Order no.	PU
1gang	1011 21 04	10
2gang	1012 21 04	10
3gang	1013 21 04	10
4gang	1014 21 04	2
5gang	1015 21 04	2



# Glass polar white frames

- for vertical and horizontal mounting

Design	Order no.	PU
1gang	1011 21 09	10
2gang	1012 21 09	5
3gang	1013 21 09	5
4gang	1014 21 09	1
5gang	1015 21 09	1



#### Glass black frames

- for vertical and horizontal mounting

Design	Order no.	PU
1gang	1011 21 16	10
2gang	1012 21 16	5
3gang	1013 21 16	5
4gang	1014 21 16	1
5gang	1015 21 16	1



# Polar white glossy frames

- Labelling field



Labelling field height arranged for P-touch strips 6 mm.

Design	Order no.	PU
1gang	1011 21 79	10
2gang vertical	1012 21 69	2
3gang vertical	1013 21 69	2
2gang horizontal	1012 21 79	2
3gang horizontal	1013 21 79	2





#### Black glossy frames

- Labelling field



Labelling field height arranged for P-touch strips 6 mm.

Design	Order no.	PU
1gang	1011 21 35	10
2gang vertical	1012 21 25	2
3gang vertical	1013 21 25	2
2gang horizontal	1012 21 35	2
3gang horizontal	1013 21 35	2

#### Frames made from special materials



#### Anthracite/polar white glossy, natural slate frames

Not suitable for water-protected, flush-mounted installation IP44.

Caution!

Installation only possible on a flat surface. Tighten screws of the covers only by hand.

The colour of surface material can change when exposed to UV radiation.

Caution!

Natural product made from open-pored material, which is sensitive to grease and dirt.

- for vertical and horizontal mounting
- natural, untreated surface structure
- natural material that underscores the individual character by means of developed structures and different material thicknesses and colour schemes

Design	Order No.	U
1gang	1011 23 89	1
2gang	1012 23 89	1
3gang	1013 23 89	1

Order No.

1011 23 84

1012 23 84

1013 23 84



#### Anthracite/black glossy, natural slate frames

Not suitable for water-protected, flush-mounted installation IP44.

Caution!

Installation only possible on a flat surface. Tighten screws of the covers only by hand.

The colour of surface material can change when exposed to UV radiation.

Caution!

Design 1gang

2gang

3gang

Natural product made from open-pored material, which is sensitive to grease and dirt.

- for vertical and horizontal mounting
- natural, untreated surface structure
- natural material that underscores the individual character by means of developed structures and different material thicknesses and colour schemes



# Grey/polar white glossy, grounded concrete frames

Not suitable for water-protected, flush-mounted installation IP44.

Caution! Installation only possible on a flat surface. Tighten screws of the covers only by hand.

The colour of surface material can change when exposed to UV radiation.

Caution!

Natural product made from open-pored material, which is sensitive to grease and dirt.

- for vertical and horizontal mounting
- smoothly milled surface
- natural material that underscores the individual character by means of different structures and colour schemes

Design	Order No. PU	J
1gang	1011 23 79	I
2gang	1012 23 79	l
3gang	1013 23 79	ĺ

PU

1

1

1



PU

1

1

1

1

1



#### Grey/black glossy, grounded concrete frames

Not suitable for water-protected, flush-mounted installation IP44.

#### Caution!

Installation only possible on a flat surface. Tighten screws of the covers only by hand.

The colour of surface material can change when exposed to UV radiation.

#### Caution!

Natural product made from open-pored material, which is sensitive to grease and dirt.

-	for vertical	and	horizontal	mountin	a
	ioi voitica	ana	HOHZOHILAI	mountin	

- smoothly milled surface
- natural material that underscores the individual character by means of different structures and colour schemes

Design	Order No.	PU
1gang	1011 23 74	1
2gang	1012 23 74	1
3gang	1013 23 74	1



#### Brown/polar white glossy, embossed leather frames

Not suitable for water-protected, flush-mounted installation IP44.

Patina typical for real leather can develop over time due to touch and the influence of light.

#### Caution!

Design

1gang

2gang

3gang

4gang 5gang

Natural product made from open-pored material, which is sensitive to grease and dirt.

-	for	vertical	and	horizontal	mounting
---	-----	----------	-----	------------	----------

- structured surface

Order No.

1011 23 69

1012 23 69 1013 23 69

1014 23 69

1015 23 69

 high quality, durable material that underscores the individual character by means of different structures and colour schemes



# Brown/black glossy, embossed leather frames

Not suitable for water-protected, flush-mounted installation IP44.

The shape of surface materials can change during changes in temperature and humidity and its colour can change when exposed to UV radiation.

Patina typical for real leather can develop over time due to touch and the influence of light.

#### Caution!

Natural product made from open-pored material, which is sensitive to grease and dirt.

- for vertical and horizontal mounting
- structured surface
- high quality, durable material that underscores the individual character by means of different structures and colour schemes

Design	Order No.	J
1gang	1011 23 64	Ī
2gang	1012 23 64	I
3gang	1013 23 64	Ī
4gang	1014 23 64	Ī
5gang	1015 23 64	Ī





#### Oak/polar white glossy, stained wood frames

Not suitable for water-protected, flush-mounted installation IP44.

The shape of surface materials can change during changes in temperature and humidity and its colour can change when exposed to UV radiation.

<ul> <li>for vertical and horizontal mount</li> </ul>	tinç
---	------

- stained on bog oak
- natural material that underscores the individual character by means of different grains and colour structures

Design	Order No.	PU
1gang	1011 23 59	1
2gang	1012 23 59	1
3gang	1013 23 59	1
4gang	1014 23 59	1
5gang	1015 23 59	1



#### Oak/black glossy, stained wood frames

Not suitable for water-protected, flush-mounted installation IP44.

The shape of surface materials can change during changes in temperature and humidity and its colour can change when exposed to UV radiation.

-	for	vertical	and	horizontal	mounting
---	-----	----------	-----	------------	----------

- stained on bog oak
- natural material that underscores the individual character by means of different grains and colour structures

Design	Order No.	PU
1gang	1011 23 54	1
2gang	1012 23 54	1
3gang	1013 23 54	1
4gang	1014 23 54	1
5gang	1015 23 54	1



#### Red transparent/polar white glossy, acrylic frames

Not suitable for water-protected, flush-mounted installation IP44.

- for vertical and horizontal mounting

Design	Order No. PU
1gang	<b>1011 23 49</b> 1
2gang	<b>1012 23 49</b> 1
3gang	<b>1013 23 49</b> 1
4gang	<b>1014 23 49</b> 1
5gang	<b>1015 23 49</b> 1



#### Red transparent/black glossy, acrylic frames

Not suitable for water-protected, flush-mounted installation IP44.

- for vertical and horizontal mounting

Design	Order No.	PU
1gang	1011 23 44	1
2gang	1012 23 44	1
3gang	1013 23 44	1
4gang	1014 23 44	1
5gang	1015 23 44	1



#### Orange transparent/polar white glossy, acrylic frames

Not suitable for water-protected, flush-mounted installation IP44.

Design	Order No.	PU
1gang	1011 23 39	1
2gang	1012 23 39	1
3gang	1013 23 39	1
4gang	1014 23 39	1
5gang	1015 23 39	1





#### Orange transparent/black glossy, acrylic frames

Not suitable for water-protected, flush-mounted installation IP44.

- for vertical and horizontal mounting

Design	Order No.	U
1gang	1011 23 34	1
2gang	1012 23 34	1
3gang	1013 23 34	1
4gang	1014 23 34	1
5gang	1015 23 34	1

# Berker R.3 frames



# Polar white glossy frames

Design	Order no.	PU
1gang	1011 22 89	10
2gang	1012 22 89	2
3gang	1013 22 89	2
4gang	1014 22 89	2
5gang	1015 22 89	2



#### Black glossy frames

- for vertical and horizontal mounting

Design	Order no.	PU
1gang	1011 22 45	10
2gang	1012 22 45	2
3gang	1013 22 45	10
4gang	1014 22 45	2
5gang	1015 22 45	2



# Aluminium/polar white frames

Design	Order no.	PU
1gang	1011 22 74	10
2gang	1012 22 74	10
3gang	1013 22 74	10
4gang	1014 22 74	2
5gang	1015 22 74	2





#### Aluminium/black frames

- for vertical and horizontal mounting

Design	Order no.	PU
1gang	1011 22 84	10
2gang	1012 22 84	10
3gang	1013 22 84	10
4gang	1014 22 84	2
5gang	1015 22 84	2



#### Stainless steel/polar white frames

- for vertical and horizontal mounting

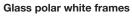
Design	Order no.	PU
1gang	1011 22 14	10
2gang	1012 22 14	10
3gang	1013 22 14	10
4gang	1014 22 14	2
5gang	1015 22 14	2



#### Stainless steel/black frames

- for vertical and horizontal mounting

Design	Order no.	U
1gang	<b>1011 22 04</b> 1	0
2gang	<b>1012 22 04</b> 1	0
3gang	<b>1013 22 04</b> 1	0
4gang	1014 22 04	2
5gang	1015 22 04	2





- for vertical and horizontal mounting

Design	Order no.	PU
1gang	1011 22 09	10
2gang	1012 22 09	5
3gang	1013 22 09	5
4gang	1014 22 09	1
5gang	1015 22 09	1



#### Glass black frames

Design	Order no.	PU
1gang	1011 22 16	10
2gang	1012 22 16	5
3gang	1013 22 16	5
4gang	1014 22 16	1
5gang	1015 22 16	1

# **KNX wall-mounted input devices**Berker R.3 frames





# Polar white glossy frames

- Labelling field



Labelling field height arranged for P-touch strips 6 mm.

Design	Order no.	PU
1gang	1011 22 79	10
2gang vertical	1012 22 69	2
3gang vertical	1013 22 69	2
2gang horizontal	1012 22 79	2
3gang horizontal	1013 22 79	2



# Black glossy frames

- Labelling field



Labelling field height arranged for P-touch strips 6 mm.

Design	Order no.	PU
1gang	1011 22 35	10
2gang vertical	1012 22 25	2
3gang vertical	1013 22 25	2
2gang horizontal	1012 22 35	2
3gang horizontal	1013 22 35	2



# systo frames



#### White frames

UV resistant material with
 antistatic texture
 accurate mounting thanks to clip steps
 slots to remove the frame on the side
 available in 57 or 71 mm center distance

Design	Order no.	PU
single, 2 modules	WS401	10
double horizontal, 2 x 2 modules	WS402	10
triple horizontal, 3 x 2 modules (71 mm)	WS403	5
quadruple horizontal, 4 x 2 modules (71 mm)	WS404	1
double vertical, 2 x 2 modules (57 mm)	WS406	10
double vertical, 2 x 2 modules (71 mm)	WS408	1
triple vertical, 3 x 2 modules (57 mm)	WS407	5
triple vertical, 3 x 2 modules (71 mm)	WS409	5
quadruple horizontal, 4 x 2 modules (57 mm)	WS410	10
horizontal, 6 modules (57 mm)	WS411	5
horizontal, 5 modules (71 mm)	WS412	10
horizontal, 8 modules (71 mm)	WS413	5
horizontal, 16 (2 x 8) modules (57 mm)	WS416	5



#### **Aluminium frames**

 UV resistant material with antistatic texture

- accurate mounting thanks to clip steps
- slots to remove the frame on the side
  available in 57 or 71 mm center distance
- Design PU single, 2 modules WS401T 10 double horizontal, 2 x 2 modules WS402T 10 5 triple horizontal, 3 x 2 modules (71 mm) WS403T quadruple horizontal, 4 x 2 modules (71 mm) WS404T 1 double vertical, 2 x 2 modules (57 mm) WS406T 10 WS408T double vertical, 2 x 2 modules (71 mm) 1 5 triple vertical, 3 x 2 modules (57 mm) WS407T triple vertical, 3 x 2 modules (71 mm) WS409T 5 quadruple horizontal, 4 x 2 modules (57 mm) WS410T 10 horizontal, 6 modules (57 mm) WS411T 5 10 horizontal, 5 modules (71 mm) WS412T horizontal, 8 modules (71 mm) WS413T 5 horizontal, 16 (2 x 8) modules (57 mm) WS416T 5



#### Black frames

- UV resistant material with
   antistatic texture
   accurate mounting thanks to clip steps
   slots to remove the frame on the side
   available in 57 or 71 mm center distance
- Order no. single, 2 modules WS401N 10 double horizontal, 2 x 2 modules WS402N 10 5 triple horizontal, 3 x 2 modules (71 mm) WS403N quadruple horizontal, 4 x 2 modules (71 mm) WS404N 1 double vertical, 2 x 2 modules (71 mm) WS408N 1 5 triple vertical, 3 x 2 modules (71 mm) WS409N quadruple horizontal, 4 x 2 modules (57 mm) WS410N 10 horizontal, 6 modules (57 mm) WS411N 5 horizontal, 5 modules (71 mm) WS412N 10 horizontal, 8 modules (71 mm) WS413N 5 5 horizontal, 16 (2 x 8) modules (57 mm) WS416N

# KNX wall-mounted input devices

systo frames





#### **Antibacterial frames**

- UV resistant material with antistatic texture

- accurate mounting thanks to clip steps slots to remove the frame on the side available in 57 or 71 mm center distance

Design	Order no.	PU
single, 2 modules	WS401H	10
double horizontal, 2 x 2 modules	WS402H	10
triple horizontal, 3 x 2 modules (71 mm)	WS403H	5
quadruple horizontal, 4 x 2 modules (71 mm)	WS404H	1
double vertical, 2 x 2 modules (57 mm)	WS406H	10
double vertical, 2 x 2 modules (71 mm)	WS408H	1
triple vertical, 3 x 2 modules (57 mm)	WS407H	5
triple vertical, 3 x 2 modules (71 mm)	WS409H	5
quadruple horizontal, 4 x 2 modules (57 mm)	WS410H	10
horizontal, 6 modules (57 mm)	WS411H	5

# Adaptor rings systo



# Adaptor rings

- To use with 45 x 45 mechanisms in standard boxes

- accurate mounting thanks to clip steps slots to remove the frame on the side available in 57 or 71 mm center distance
- PU Design Order no. 2 modules, with screws WS450 10 2 modules, with claws-breakable WS451 10 2 modules, with screw-breakable WS451S 10 10 4 modules, with screws, for WS410 WS452 5 modules, with screws, for WS412 WS454 10 6 modules, with screws, for WS411 WS453 5 8 modules, with screws, for WS413 WS455 5 16 modules (2 x 8 horizontal), with screws, for WS416 WS456 5



#### essensya frames



#### White frames

Design single

- UV resistant material with antistatic texture

-	accurate mounting thanks to clip steps
-	slots to remove the frame on the side
-	available in 57 or 71 mm center distance

Order no.	PU
WE401	10
WE402	10
WE403	5
WE404	1
WE406	10



#### **Black frames**

double vertical (57 mm)

triple vertical (57 mm)

- UV resistant material with antistatic texture

double horizontal or vertical (71 mm) triple horizontal or vertical (71 mm) quadruple horizontal or vertical (71 mm)

accurate mounting thanks to clip steps slots to remove the frame on the side available in 57 or 71 mm center distance

Design	Order no.	PU
single	WE401N	10
double horizontal or vertical (71 mm)	WE402N	10

**WE407** 



#### **Grey frames**

accurate mounting thanks to clip steps - UV resistant material with slots to remove the frame on the side available in 57 or 71 mm center distance antistatic texture

Design	Order no.	PU
single	WE421	1
double horizontal or vertical (71 mm)	WE422	1
triple horizontal or vertical (71 mm)	WE423	1
quadruple horizontal or vertical (71 mm)	WE424	1
double vertical (57 mm)	WE426	1
triple vertical (57 mm)	WE427	1



#### Sand frames

accurate mounting thanks to clip steps slots to remove the frame on the side - UV resistant material with antistatic texture available in 57 or 71 mm center distance

Design	Order no.	PU
single	WE431	1
double horizontal or vertical (71 mm)	WE432	1
triple horizontal or vertical (71 mm)	WE433	1
quadruple horizontal or vertical (71 mm)	WE434	1
double vertical (57 mm)	WE436	1
triple vertical (57 mm)	WE437	1

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#### KNX wall-mounted input devices

#### essensya frames





#### **Blue frames**

- UV resistant material with antistatic texture

- accurate mounting thanks to clip steps slots to remove the frame on the side available in 57 or 71 mm center distance

Design	Order no.	PU
single	WE441	1
double horizontal or vertical (71 mm)	WE442	1
triple horizontal or vertical (71 mm)	WE443	1
quadruple horizontal or vertical (71 mm)	WE444	1
double vertical (57 mm)	WE446	1
triple vertical (57 mm)	WE447	1



#### **Bronze frames**

- UV resistant material with antistatic texture

- accurate mounting thanks to clip stepsslots to remove the frame on the side
- available in 57 or 71 mm center distance

Design	Order no.	PU
single	WE461	1
double horizontal or vertical (71 mm)	WE462	1
triple horizontal or vertical (71 mm)	WE463	1
quadruple horizontal or vertical (71 mm)	WE464	1
double vertical (57 mm)	WE466	1
triple vertical (57 mm)	WE467	1



#### **Red frames**

- UV resistant material with antistatic texture

- accurate mounting thanks to clip steps
- slots to remove the frame on the side available in 57 or 71 mm center distance

Design	Order no.	PU
single	WE471	1
double horizontal or vertical (71 mm)	WE472	1
triple horizontal or vertical (71 mm)	WE473	1
quadruple horizontal or vertical (71 mm)	WE474	1
double vertical (57 mm)	WE476	1
triple vertical (57 mm)	WE477	1



#### **Titane frames**

- UV resistant material with antistatic texture

- accurate mounting thanks to clip steps
  slots to remove the frame on the side
  available in 57 or 71 mm center distance

Design	Order no.	PU
single	WE491	1
double horizontal or vertical (71 mm)	WE492	1
triple horizontal or vertical (71 mm)	WE493	1
quadruple horizontal or vertical (71 mm)	WE494	1
double vertical (57 mm)	WE496	1
triple vertical (57 mm)	WE497	1

### KNX wall-mounted input devices





#### Adaptor rings essensya



#### Adaptor rings

- To use with 45 x 45 mechanisms in standard boxes

accurate mounting thanks to clip steps slots to remove the frame on the side available in 57 or 71 mm center distance

Design Order no. PU 2 modules, with screws 10 WE450

## **Berker B.IQ**

A wide array of alternative materials and colours have been added to the convenient variety of KNX functionality of the Berker B.IQ.

- Frameless KNX push-button with full-material rockers (glass, stainless steel and aluminium)
- High scope of functions in the KNX applications through devices integrating thermostats
- The attractive appearance is rounded off using white status LEDs and a blue operation LED
- Suitable variants for all materials and colours of sockets in the Berker B.7 switch range.



02	Page
Push-buttons	78
Light scenes push-buttons	81
Push-buttons with thermostat	82
Labelling fields	84



- For suitable frames in the same "style" for additional applications, see the Design line B.7
- For additional products to complement the installation in matching colours/materials, refer to the Design platform

#### **Push-buttons**

- For switch, push-button, dimmer and shutter functions
- Extension unit for light scene push-button
- For installation in single standard wall boxes
- With dismantling protection



#### Bus coupling unit flush-mounted

Operating voltage over bus Power consumption, KNX Operating temperature Insertion depth

21 ... 32 V= ≈ 100 mW -5 ... +45 °C

- with programming button and red programming LED - as interface between KNX user module and bus line

- bus connection via connecting terminal

- without spreader claws 23 mm

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100	0	
	HHH	
vani		BIV

Design	Order no.	PU
Bus coupling unit flush-mounted	7504 00 01	1



#### **B.IQ** push-button 1gang comfort

Operating temperature Dimensions (W x H)

-5 ... +45 °C 88.5 x 88.5 mm

- single and two push-button operation parameterisable
- one push-button operation for switching, pushing, shutters and dimming
- activation of second user level via object
- with blue operation LED and 2 white status LEDs (labelling field lighting)
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
- cyclic transmission can also be started via switching
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte

	Suitable for Bus coupling unit flush-mounted optional B.IQ labelling field for push-buttons 1 to 3gang	<b>Order no.</b> 7504 00 01 7590 00 80	<b>Page</b> 78
Design	Order no.		PU
polar white matt	7516 15 99		1
aluminium, aluminium anodised	7516 15 94		1
stainless steel, metal brushed	7516 15 93		1
glass polar white	7516 15 90		1
glass black	7516 15 92		1



#### **B.IQ** push-button 2gang comfort

Operating temperature Dimensions (W x H) 88.5 x 88.5 mm

-5 ... +45 °C

- single and two push-button operation parameterisable
- one push-button operation for switching, pushing, shutters and dimming
- activation of second user level via object
- with blue operation LED and 4 white status LEDs (labelling field lighting)
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
- cyclic transmission can also be started via switching object
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte

	Suitable for Bus coupling unit flush-mounted optional B.IQ labelling field for push-buttons 1 to 3gang	<b>Order no.</b> 7504 00 01 7590 00 80	<b>Page</b> 78
Design	Order no.		PU
polar white matt	7516 25 99		1
aluminium, aluminium anodised	7516 25 94		1
stainless steel, metal brushed	7516 25 93		1
glass polar white	7516 25 90		1
glass black	7516 25 92		1





#### **B.IQ** push-button 3gang comfort

Operating temperature Dimensions (W x H)

-5 ... +45 °C 88.5 x 88.5 mm

- single and two push-button operation parameterisable
- one push-button operation for switching, pushing, shutters and dimming
- activation of second user level via object
- with blue operation LED and 6 white status LEDs (labelling field lighting)
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
- cyclic transmission can also be started via switching object
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte

	Suitable for	Order no.	Page
	Bus coupling unit flush-mounted optional	7504 00 01	78
	B.IQ labelling field for push-buttons 1 to 3gang	7590 00 80	84
Design	Order no.		PU
polar white matt	7516 35 99		1
aluminium, aluminium anodised	7516 35 94		1
stainless steel, metal brushed	7516 35 93		1
glass polar white	7516 35 90		1
glass black	7516 35 92		1



#### B.IQ push-button 4gang comfort

Operating temperature Dimensions (W x H)

-5 ... +45 °C 88.5 x 118.1 mm

- single and two push-button operation parameterisable
- lockable via 3-button actuation
- one push-button operation for switching, pushing, shutters and dimming
- second operating level via object or 3-button handle
- with blue operation LED and 8 white status LEDs (labelling field lighting)
- alarm telegram after disconnection from bus coupling unit 1 bit or 1 byte
- cyclic transmission can also be started via switching object
- value transmitter for dimming, position, brightness and temperature values 1 and 2 byte

	Suitable for	Order no.	Page
	Bus coupling unit flush-mounted optional	7504 00 01	78
	B.IQ labelling field for push-buttons 4gang	7590 00 81	84
Design	Order no.		PU
polar white matt	7516 45 99		1
aluminium, aluminium anodised	7516 45 94		1
stainless steel, metal brushed	7516 45 93		1
glass polar white	7516 45 90		1
glass black	7516 45 92		1



#### **B.IQ** push-button 1gang

Operating temperature -5 ... +45 °C Dimensions (W x H) 88.5 x 88.5 mm

- with blue operation LED and 2 white status LEDs (labelling field lighting)
  - dimming / position value transmitter 1 byte

	Suitable for Bus coupling unit flush-mounted optional B.IQ labelling field for push-buttons 1 to	<b>Order no.</b> 7504 00 01 7590 00 80	<b>Page</b> 78
	3gang		
Design	Order no.		PU
polar white matt	7516 10 99		1
aluminium, aluminium anodised	7516 10 94		1
stainless steel, metal brushed	7516 10 93		1
glass polar white	7516 10 90		1
glass black	7516 10 92		1





#### B.IQ push-button 2gang

Operating temperature	-5 +45 °C	
Dimensions (W x H)	88.5 x 88.5 mm	(la

 with blue operation LED and 4 white status LEDs (labelling field lighting)

- dimming / position value transmitter 1 byte

	• .	-	
	Suitable for	Order no.	Page
	Bus coupling unit flush-mounted optional	7504 00 01	78
	B.IQ labelling field for push-buttons 1 to 3gang	7590 00 80	84
Design	Order no.		PU
polar white matt	7516 20 99		1
aluminium, aluminium anodised	7516 20 94		1
stainless steel, metal brushed	7516 20 93		1
glass polar white	7516 20 90		1
glass black	7516 20 92		1



#### **B.IQ** push-button 3gang

Operating temperature	-5 +45 °C	- with blue operation LED and 6 white status LEDs
Dimensions (W x H)	88.5 x 88.5 mm	(labelling field lighting)

- dimming / position value transmitter 1 byte

	Suitable for Bus coupling unit flush-mounted optional	<b>Order no.</b> 7504 00 01	<b>Page</b> 78
	B.IQ labelling field for push-buttons 1 to 3gang	7590 00 80	84
Design	Order no.		PU
polar white matt	7516 30 99		1
aluminium, aluminium anodised	7516 30 94		1
stainless steel, metal brushed	7516 30 93		1
glass polar white	7516 30 90		1
glass black	7516 30 92		1



#### B.IQ push-button 4gang

Operating temperature	-5 +45 °C
Dimensions (W x H)	88.5 x 118.1 mm

with blue operation LED and 8 white status LEDs (labelling field lighting)

- dimming / position value transmitter 1 byte

	- diffiffing / position value transmitter i byte		
	Suitable for	Order no.	Page
	Bus coupling unit flush-mounted optional	7504 00 01	78
	B.IQ labelling field for push-buttons 4gang	7590 00 81	84
Design	Order no.		PU
polar white matt	7516 40 99		1
aluminium, aluminium anodised	7516 40 94		1
stainless steel, metal brushed	7516 40 93		1
glass polar white	7516 40 90		1
glass black	7516 40 92		1



#### **Light scenes push-buttons**



#### B.IQ push-button 4gang for light scenes

Number of load groups (increase on

cascading)
Light scenes max. 8
Operating temperature -5 ... +45 °C
Dimensions (W x H) 88.5 x 118.1 mm

- retrieval, adjustment and storage of 8 light scenes
- light scene push-buttons can be cascaded
- second operating level for setting load groups via 3-button actuation
- with blue operation LED and 8 white status LEDs (labelling field lighting)
- dimming / position value transmitter 1 byte
- for installation in single standard wall boxes
- with anti-dismantling protection

	Suitable for Bus coupling unit flush-mounted optional B.IQ labelling field for push-buttons 4gang	<b>Order no.</b> 7504 00 01 7590 00 81	<b>Page</b> 78
Design	Order no.		PU
polar white matt	7516 86 99		1
aluminium, aluminium anodised	7516 86 94		1
stainless steel, metal brushed	7516 86 93		1
glass polar white	7516 86 90		1
glass black	7516 86 92		1

8



#### **Push-buttons with thermostat**

- For switch, push-button, dimmer, blind and thermostat functions
- Single and two push-button operation parameterisable
- One push-button operation for switching, buttons, blinds and dimming
- Extension unit for light scene push-button
- With 2 white status LEDs per rocker (labelling field illumination)
- With blue operation LED
- For individual single room temperature control
- For heating and/or cooling mode with/without auxiliary step
- Controller operating modes: comfort, standby, night and frost/heat protection mode
- With 2 additional function buttons for display control
- Display of operating mode, controller lockout, room and outside temperature as well as time in connection with a
- Temperature measurement via internal temperature sensor and/or external communication object (weighting ratio
- Provision of the internal temperature value via communication object
- With room temperature timer and 2-week timer functions
- Button help function can be activated
- For installation in single standard wall boxes
- For continuous (PI) or switched (2-point) control of max. 2 control circuits
- With dismantling protection
- Text display (ASCII-format)
- LC display with symbols and illumination switchable via object
- With button blocking function
- End customer display scope parameterisable
- Separate object for window contact
- Programmable from ETS2, V1.2a
- Alarm telegram after disconnection from bus coupling unit 1 bit, 1 or 2 byte
- Presence button parameterisable to extend comfort
- Value transmitter for dimming, position, brightness and temperature values 1 and 2 byte



#### Flush-mounted bus coupling unit for B.IQ with thermostat

Operating voltage over bus 21 ... 32 V= Operating temperature -5 ... +45 °C Insertion depth 20 mm

- for B.IQ push-buttons with thermostat and display or Bluetooth gateways

- with programming button and red programming LED

- bus connection via connecting terminal

- without spreader claws



Design	Order no.	PU
flush-mounted bus coupling unit for B.IQ with thermostat	7504 00 01	1



#### B.IQ push-button 3gang with thermostat

- Display  [14:23]  Operating temperature	-5 +45 °C	Suitable for Flush-mounted bus coupling unit for B.IQ with thermostat optional B.IQ labelling field for push-buttons 1 to 3gang	<b>Order no.</b> 7504 00 01 7590 00 80	<b>Page</b> 82 84
Dimensions (W x H)	88.5 x 119.6 mm			
Design		Order no.		PU
polar white matt		7566 35 99		1
aluminium, aluminium anodised		7566 35 94		1
stainless steel, metal brushed		7566 35 93		1
glass polar white		7566 35 90		1
glass black		7566 35 92		1





#### B.IQ push-button 4gang with thermostat

- Display  [M:23]  Operating temperature	-5 +45 °C	Suitable for Flush-mounted bus coupling unit for B.IQ with thermostat optional B.IQ labelling field for push-buttons 4gang	Order no. 7504 00 01 7590 00 81	<b>Page</b> 82
Dimensions (W x H)	88.5 x 149.2 mm			
Design		Order no.		PU
polar white matt		7566 45 99		1
aluminium, aluminium anodised		7566 45 94		1
stainless steel, metal brushed		7566 45 93		1
glass polar white		7566 45 90		1
glass black		7566 45 92		1



#### B.IQ push-button 5gang with thermostat

- Display		Suitable for Flush-mounted bus coupling unit for B.IQ	<b>Order no.</b> 7504 00 01	<b>Page</b> 82
	-5 +45 °C	with thermostat optional B.IQ labelling field for push-buttons 5gang	7590 00 82	84
Operating temperature Dimensions (W x H)	88.5 x 178.8 mm			
Declar				
Design		Order no.		PU
polar white matt		7566 55 99		PU 1
				PU 1 1
polar white matt		7566 55 99		1 1 1
polar white matt aluminium, aluminium anodised		7566 55 99 7566 55 94		PU 1 1 1 1 1 1 1



#### **B.IQ IR push-button 3gang with thermostat**

- Display		<ul> <li>IR telegram with RC5 coding parameterisable per push-button</li> </ul>		
Operating temperature	-5 +45 °C	Suitable for Flush-mounted bus coupling unit for B.IQ with thermostat optional	<b>Order no.</b> 7504 00 01	Page 82
Dimensions (W x H)	88.5 x 128.6 mm	B.IQ labelling field for push-buttons 1 to 3gang	7590 00 80	84
Design		Order no.		PU
polar white matt		7566 36 99		1
aluminium, aluminium anodised		7566 36 94		1

7566 36 93

7566 36 90

7566 36 92



#### **B.IQ IR push-button 4gang with thermostat**

stainless steel, metal brushed

glass polar white

glass black

- Display		<ul> <li>IR telegram with RC5 coding parameterisable per push-button</li> </ul>		
Operating temperature Dimensions (W x H)	-5 +45 °C 88.5 x 158.2 mm	Suitable for Flush-mounted bus coupling unit for B.IQ with thermostat optional	Order no. 7504 00 01 7590 00 81	Page 82
Design		B.IQ labelling field for push-buttons 4gang  Order no.	7590 00 81	84 PU
polar white matt		7566 46 99		1
aluminium, aluminium anodised		7566 46 94		1
stainless steel, metal brushed		7566 46 93		1
glass polar white		7566 46 90		1
glass black		7566 46 92		1

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#### Berker B.IQ

#### Push-button sensors with thermostat and labelling fields





#### B.IQ IR push-button 5gang with thermostat

- Display		<ul> <li>IR telegram with RC5 coding page push-button</li> </ul>	ling parameterisable per	
17:63		Suitable for Flush-mounted bus coupling unit for B.IQ	Order no. 7504 00 01	Page 82
Operating temperature	-5 +45 °C	with thermostat optional		
Dimensions (W x H)	88.5 x 187.8 mm	B.IQ labelling field for push-buttons 5gang	7590 00 82	84
Design		Order no.		PU
polar white matt		7566 56 99		1
aluminium, aluminium anodised		7566 56 94		1
stainless steel, metal brushed		7566 56 93		1
glass polar white		7566 56 90		1
glass black		7566 56 92		1

Labelling fields				
	B.IQ labelling field for push-b	outtons 1 to 3gang		
	Dimensions (W x H x D)	151.6 x 85 x 5.7 mm	<ul> <li>can be illuminated by status LED</li> </ul>	
	Design		Order no.	PU
	clear, transparent		7590 00 80	1
	B.IQ labelling field for push-b	outtons 4gang		
	Dimensions (W x H x D)	151.6 x 114.6 x 5.7 mm	<ul> <li>can be illuminated by status LED</li> </ul>	
17.5	Design		Order no.	PU
	clear, transparent		7590 00 81	1
	B.IQ labelling field for push-b	outtons 5gang		
	Dimensions (W x H x D)	151.6 x 144.2 x 5.7 mm	- can be illuminated by status LED	
	Design		Order no.	PU
	clear, transparent		7590 00 82	1

## **Berker TS Sensor**

Understatement is an art, and the Berker TS Sensor makes it perfect. Up to eight functions are concealed under a pure surface that is practically flush with the wall, and can be custom-labelled on request. A single touch is all it takes to control lights, heating or blinds. In this way, the Berker TS Sensor can offer an exciting variety of possibilities – and, at the same time, still seems as calm as possible.



03	Page
Glass sensors	88
Supplementary products	91



#### Glass sensors

#### Glass sensors comfort

- With integrated bus coupling unit
- Operation by gently touching the sensor surfaces on the white LEDs
- For switch, push-button, dimmer and shutter functions
- Single and two push-button operation parameterisable
- Retrieval, setting and storing of 8 light scenes
- One push-button operation for switching, buttons, blinds and dimming
- Extension unit for light scene push-button
- Integrated temperature sensor
- Temperature measurement via internal and/or external temperature sensor with mean value formation
- Additional connection for external temperature sensor
- Usable as thermostat extension unit
- Provision of the internal temperature value via communication object
- Blocking function for sensor surface e.g. for cleaning the glass surface
- Value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
- Bus connection via connecting terminal
- For vertical mounting
- For mounting, always use the flat 2gang wall box, order no. 1871
- With adapter ring for dismantling protection, shadow jointing and special installation conditions
- With disassembly suction tool
- For individually labelled glass and touch sensors (configured variations), the Web Configurator generates a layout number, which must be additionally specified when placing the order.
- Many options for labelling (text and/or icons) are available via the web configurator at http://ts-glas-sensor.berker.de



#### Glass sensor 1gang comfort

- integrated bus coupling unit



21 ... 32 V= Operating voltage

 with blue operation LED and 2 white status LEDs - for additional products to complement the installation

in matching colours/materials, refer to the Design platform S.1/B.x

for glass frames in the same "style" for additional applications, see the Design line B.7

Current consumption	12.5 mA
Operating temperature	-5 +45 °C
Dimensions (W x H x D)	86 x 160 x 5.7 mm
Only suitable for KNX.	

Suitable for Order no. Wall box 2gang flat 1871 91 optional Temperature sensor 161 39

Design	Order no.	PU
Berker TS Sensor		
glass polar white	7514 18 30	1
glass black	7514 18 35	1
glass aluminium	7514 10 34	1
Berker TS Sensor - configured		
glass polar white	7514 19 30	1
glass black	7514 19 35	1
glass aluminium	7514 11 34	1



#### Glass sensor 2gang comfort

- integrated bus coupling unit



21 ... 32 V= Operating voltage Current consumption 12.5 mA

- with blue operation LED and 4 white status LEDs

- for additional products to complement the installation in matching colours/materials, refer to the Design platform S.1/B.x

- for glass frames in the same "style" for additional applications, see the Design line B.7

Operating temperature Dimensions (W x H x D)	-5 +45 °C 86 x 160 x 5.7 mm	Wall box 2gang flat optional	1871	91
Only suitable for KNX.		Temperature sensor	161	39
Design Berker TS Sensor		Order no.		PU
glass polar white		7514 28 30		1
glass black		7514 28 35		1
glass aluminium		7514 20 34		1



#### Berker TS Sensor - configured

•		
glass polar white	7514 29 30	1
glass black	7514 29 35	1
glass aluminium	7514 21 34	1



#### Glass sensor 3gang comfort

- integrated bus coupling unit



21 ... 32 V= Operating voltage 12.5 mA Current consumption -5 ... +45 °C Operating temperature D

- with blue operation LED and 6 white status LEDs

- for additional products to complement the installation in matching colours/materials, refer to the Design platform S.1/B.x

- for glass frames in the same "style" for additional applications, see the Design line B.7

Operating temperature Dimensions (W x H x D)	-5 +45 °C 86 x 160 x 5.7 mm	Suitable for Wall box 2gang flat optional Temperature sensor	<b>Order no.</b> 1871 161	<b>Page</b> 91
Only suitable for KNX.				
Design		Order no.		PU
Berker TS Sensor				
glass polar white		7514 38 30		1
glass black		7514 38 35		1
glass aluminium		7514 30 34		1
Berker TS Sensor - configured				
glass polar white		7514 39 30		1
glass black		7514 39 35		1
glass aluminium		7514 31 34		1



#### Glass sensor 4gang comfort

- integrated bus coupling unit



21 ... 32 V= Operating voltage Current consumption 12.5 mA Operating temperature -5 ... +45 °C Di

	- 1	with	blue	operation	LED	and	8	white	status	LEDs	
--	-----	------	------	-----------	-----	-----	---	-------	--------	------	--

- for additional products to complement the installation in matching colours/materials, refer to the Design platform S.1/B.x
- for glass frames in the same "style" for additional applications, see the Design line B.7

Operating temperature Dimensions (W x H x D) Only suitable for KNX.	-5 +45 °C 86 x 160 x 5.7 mm	Suitable for Wall box 2gang flat optional Temperature sensor	<b>Order no.</b> 1871 161	<b>Page</b> 91 39
Design		Order no.		PU
Berker TS Sensor				
glass polar white		7514 48 30		1
glass black		7514 48 35		1
glass aluminium		7514 40 34		1
Berker TS Sensor - configured				
glass polar white		7514 49 30		1
glass black		7514 49 35		1
glass aluminium		7514 41 34		1



#### Glass sensors with thermostat

- With integrated bus coupling unit
- Operation by gently touching the sensor surfaces on the white LEDs
- For switch, push-button, dimmer, blind and thermostat functions
- Single and two push-button operation parameterisable
- Retrieval, setting and storing of 8 light scenes
- One push-button operation for switching, buttons, blinds and dimming
- Extension unit for light scene push-button
- For heating and/or cooling mode with/without auxiliary step
- Controller operating modes: comfort, standby, night and frost/heat protection mode
- LED display with symbol display
- With 2 additional sensor surfaces for display control
- Display of operating mode, controller lockout, room and outside temperature as well as time in connection with a clock
- Integrated temperature sensor
- Temperature measurement via internal and/or external temperature sensor with mean value formation
- Additional connection for external temperature sensor
- Usable as thermostat extension unit
- Temperature control via local measurement or measured value via object
- Blocking function for sensor surface e.g. for cleaning the glass surface
- Value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
- Separate auxiliary power supply needed
- Operation with non-choked output of KNX voltage supply possible (pay attention to current consumption)
- Bus connection via connecting terminal
- For vertical mounting
- For mounting, always use the flat 2gang wall box, order no. 1871
- With adapter ring for dismantling protection and shadow gap formation
- With disassembly suction tool
- For individually labelled glass and touch sensors (configured variations), the Web Configurator generates a layout number, which must be additionally specified when placing the order.
- Many options for labelling (text and/or icons) are available via the web configurator at http://ts-glas-sensor.berker.de

#### Glass sensor 2gang with thermostat

- integrated bus coupling unit
- display





Operating voltage	21 32 V=
Current consumption	23 mA
Operating temperature	-5 +45 °C
Dimensions (W x H x D)	86 x 160 x 5.7 mm

Only avitable for I/NIV

- with blue operation LED and 4 white status LEDs
- for additional products to complement the installation in matching colours/materials, refer to the Design platform S.1/B.x

Order no.

138

91

39

TGA200

1871

161

 for glass frames in the same "style" for additional applications, see the Design line B.7

Only suitable for KNX.		
Design	Order no.	PU
Berker TS Sensor		
glass polar white	7564 20 30	1
glass black	7564 20 35	1
glass aluminium	7564 20 34	1
Berker TS Sensor - configured		
glass polar white	7564 21 30	1
glass black	7564 21 35	1
glass aluminium	7564 21 34	1

Suitable for

Wall box 2gang flat

Temperature sensor

Power supply 24 V DC RMD

1

1

1

1

1

- with blue operation LED and 6 white status LEDs

for glass frames in the same "style" for additional applications, see the Design line B.7

for additional products to complement the installation in matching colours/materials, refer to the Design platform S.1/B.x





#### Glass sensor 3gang with thermostat

- integrated bus coupling unit
- display



Operating voltage	21 32 V=
Current consumption	23 mA
Operating temperature	-5 +45 °C
D'	00 - 100 - 57

glass black

glass aluminium

1 0 0	
Current consumption	23 mA
Operating temperature	-5 +45 °C
Dimensions (W x H x D)	86 x 160 x 5.7 mm
0 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

Order no. Page 91 Wall box 2gang flat Power supply 24 V DC RMD 1871 TGA200 138 optional Temperature sensor 161 39 Only suitable for KNX. Design Order no. PU **Berker TS Sensor** glass polar white 7564 30 30 glass black 7564 30 35 glass aluminium 7564 30 34 Berker TS Sensor - configured glass polar white 7564 31 30

7564 31 35

7564 31 34

#### **Supplementary products**

#### Wall boxes



Wall box 2gang flat				
Dimensions (W x H x D) Cut hole pitch	68 x 139 x 47.5 mm	<ul><li>flush wall-mounting or wit</li><li>for flush mounting and ho</li></ul>		
Cut note pitch	7 1 111111	- 101 Husti Houriting and no	now-wan mounting	
Cut hole Ø	2 x 68 mm	Suitable for	Order no.	Page
		Glass sensors comfort		88
		Glass sensors with thermostat		90
Design		Order no.		PU
wall box 2gang flat		1871		1



Wall box 2gang				
Dimensions (W x H x D) Cut hole pitch	68 x 139 x 75 mm 71 mm	<ul><li>flush wall-mounting</li><li>for flush mounting a</li></ul>	or with adapter ring and hollow-wall mounting	
Cut hole Ø	2 x 68 mm	Suitable for Glass sensors	Order no.	Page 88
Design		Order no.		PU
wall box 2gang		1870		1

## **Berker TS/TS Crystal**

Behind its elegantly purist exterior, there is an unexpected wealth of technical options: the Berker TS allows operation, not only of multiple light sources, but, if so desired, also of intelligent building control systems. With their fine platform and switching knobs MADE WITH SWAROVSKI ELEMENTS, the Berker TS Crystal lends refinement to any atmosphere.



04	Page
Cover plates	94
Supplementary products	96



#### **Cover plates**



#### Glass cover plate

Dimensions (W x H x D)

86 x 160 x 5 mm 25 mm

- with polar white plastic base

Screw length

Other components from the B.7 glass range are available, e.g. socket outlets. Observe scale drawings! - each with 2 3.5 x 25 mm two-hole screws in chrome, gold and stainless steel for dismantling protection

- glass with polar white imprint on the backside

- with screwdriver

- for vertical and horizontal mounting

	<b>Suitable for</b> Berker TS Crystal	Order no.	Page 95
	Push-button, NO contact	1811 1	94
	Wall box	1809	96
	Wall box for installation in hollow walls optional	1824	96
	Two-hole screws 2 x M3.5 x 50 mm	1895 1	96
Design	Order no.		PU
clear glossy, 1gang	1391		1
clear glossy, 2gang	1392		1
clear glossy, 4gang	1394		1



#### Glass cover plate with facet

Dimensions (W x H x D)

Screw length

86 x 160 x 5 mm

with all-round facet

- with polar white plastic base 25 mm

- each with 2 3.5 x 25 mm two-hole screws in chrome, gold and stainless steel for dismantling protection

- with screwdriver

- for vertical and horizontal mounting

	Suitable for Berker TS Crystal	Order no.	Page 95
	Push-button, NO contact	1811 1	94
	Wall box	1809	96
	Wall box for installation in hollow walls optional	1824	96
	Two-hole screws 2 x M3.5 x 50 mm	1895 1	96
Design	Order no.		PU
clear glossy, 1gang	1311		1
clear glossy, 2gang	1321		1
clear glossy, 4gang	1341		1
clear glossy, 6gang	1366		1
clear glossy, 8gang	1388		1



#### Push-button, NO contact

Rated voltage 24 V

- brass, refined

Momentary-contact current 1.5 A Operating temperature -20 ... +60 °C

- with plug-in terminals

Insertion depth 13 mm Suitable for Order no. Page optional System interfaces 118

For connection via system interfaces to KNX radio or KNX installations.

Alternatively, can be used to control relay circuits.

Only suitable for safety low voltages!

Design	Order no.	PU
chrome glossy, brass galvanised	1811 10	10
gold glossy, 24-carat galvanised	1811 12	10
stainless steel matt, brushed nickel	1811 13	10

Page

118



#### **Berker TS Crystal**



#### **Push-button Crystal**

- NO contact Rated voltage 24 V - brass, refined Momentary-contact current 1.5 A

- with SWAROWSKI ELEMENTS Operating temperature -20 ... +60 °C - with plug-in terminals Insertion depth 13 mm

For connection via system interfaces to KNX radio or KNX installations.

Suitable for Order no. optional System interfaces

Alternatively, can be used to control relay circuits.

Only suitable for safety low voltages!



Design	Order no.	PU
chrome glossy	1964 00 01	1



#### **Push-button Black Diamond**

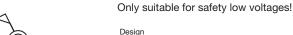
Rated voltage 24 V - NO contact - brass, refined Momentary-contact current 1.5 A

- with SWAROWSKI ELEMENTS Operating temperature -20 ... +60 °C - with plug-in terminals 13 mm Insertion depth

Suitable for For connection via system interfaces to KNX radio or

Order no. Page optional KNX installations. System interfaces 118

Alternatively, can be used to control relay circuits.



Design	Order no.	PU
stainless steel matt	1966 02 15	1



#### **Push-button Siam**

Rated voltage 24 V - NO contact Momentary-contact current 1.5 A - brass, refined

- with SWAROWSKI ELEMENTS Operating temperature -20 ... +60 °C - with plug-in terminals Insertion depth 13 mm

For connection via system interfaces to KNX radio or

Suitable for Order no. Page KNX installations. System interfaces 118

Alternatively, can be used to control relay circuits.

Only suitable for safety low voltages!



Design Order no. PU gold glossy 1965 02 08 1



#### **Push-button Topaz**

Rated voltage 24 V - NO contact Momentary-contact current 1.5 A - brass, refined

- with SWAROWSKI ELEMENTS -20 ... +60 °C Operating temperature - with plug-in terminals Insertion depth 13 mm

For connection via system interfaces to KNX radio or

Suitable for Order no. Page optional KNX installations. System interfaces 118

Alternatively, can be used to control relay circuits.

Only suitable for safety low voltages!

Order no. PU gold glossy 1965 02 03 1





#### **Supplementary products**

#### Wall boxes



#### Wall box

	- plastic		
	Suitable for Glass cover plate Glass cover plate with facet	Order no.	<b>Page</b> 94 94
Design	Order no.		PU
wall box	1809		50
wall box for installation in hollow walls	1824		50



#### Wall box 2gang

Dimensions (W x H x D) Cut hole Ø	68 x 139 x 75 mm 2 x 68 mm	0	or with adapter ring nd hollow-wall mounting	
Cut hole pitch	71 mm	Suitable for Glass sensors	Order no.	Page 88
Design		Order no.		PU
wall box 2gang		1870		1

#### Accessories



#### Two-hole screws 2 x M3.5 x 50 mm

	<ul><li>brass, refined</li><li>2 pieces for fixing in deeper</li></ul>	seated boxes
Design	Order no.	PU
chrome glossy, brass galvanised	1895 10	1
gold glossy, 24-carat galvanised	1895 12	1
stainless steel matt, brushed nickel	1895 13	1

## Berker R.1/R.3 Touch Sensors

Just right for the switch programmes in the R.-Design is the Berker Touch Sensor – in a soft (R.1) and cornered (R.3) contour as well as in the glass surfaces black and polar white.

The KNX-Touch Sensor has the same assembly height as the switches in the R.-Design.

With its integrated bus coupling unit, a variety of building functions can be read and controlled through it.



## O5PageTouch Sensors comfort100Touch Sensors with thermostat103



#### **Touch sensors comfort**

- With integrated bus coupling unit
- Operation by gently touching the sensor surfaces on the white LEDs
- For switch, push-button, dimmer and shutter functions
- Single and two push-button operation configurable
- Retrieval, setting and storing of 8 light scenes
- One push-button operation for switching, buttons, blinds and dimming
- Extension unit for light scene push-button
- Temperature measurement via internal and/or external temperature sensor with mean value formation
- Additional connection for external temperature sensor
- Usable as thermostat extension unit
- Provision of the internal temperature value via communication object
- Blocking function for sensor surface e.g. for cleaning the glass surface
- Value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
- Bus connection via connecting terminal
- For mounting on a double box, e.g. order no. 1809 (flush mounting) or 1824 (hollow wall mounting)
- For vertical mounting
- With dismantling protection via a screw on the fastening ring
- For individually labelled glass and touch sensors (configured variations), the new Web Configurator generates a
  layout number, which must be additionally specified when placing the order.
- Many options for labelling (text and/or icons) are available via the web configurator at http://ts-glas-sensor.berker.de



#### **Touch Sensor 1gang comfort**

- integrated bus coupling unit



Operating voltage 21 ... 32 V= Current consumption 12.5 mA Operating temperature -5 ... +45 °C Dimensions (W x H x D) 81 x 152 x 10 mm

- with blue operation LED and 2 white status LEDs
- for additional products to complement the installation in matching colours/materials, refer to the Design platform R.1/R.3
- for suitable frames in the same "style" for additional applications, see the Design line R.x

Operating temperature	-5 +45 °C	Suitable for	Order no.	Page
Dimensions (W x H x D)	81 x 152 x 10 mm	optional Temperature sensor	161	39
		Wall box	1809	96
		Wall box for installation in hollow walls	1824	96
Design		Order no.		PU
Berker R.1				
glass polar white		7514 18 60		1
glass black		7514 18 65		1
Berker R.1 - configured				
glass polar white		7514 11 60		1
glass black		7514 11 65		1
Berker R.3				
glass polar white		7514 18 50		1
glass black		7514 18 55		1

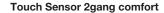


#### Berker R.3 - configured

-		
glass polar white	7514 11 50	1
glass black	7514 11 55	1







- integrated bus coupling unit



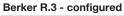
Operating voltage	21 32 V=
Current consumption	12.5 mA
Operating temperature	-5 +45 °C
Dimensions (W x H x D)	81 x 152 x 10 mm



- for additional products to complement the installation in matching colours/materials, refer to the Design platform R.1/R.3

for suitable frames in the same "style" for additional applications, see the Design line R.x

Operating temperature Dimensions (W x H x D)	-5 +45 °C 81 x 152 x 10 mm	Suitable for optional Temperature sensor Wall box Wall box for installation in hollow walls	Order no. 161 1809 1824	<b>Page</b> 39 96 96
Design		Order no.		PU
Berker R.1				
glass polar white		7514 28 60		1
glass black		7514 28 65		1
Berker R.1 - configured				
glass polar white		7514 21 60		1
glass black		7514 21 65		1
Berker R.3				
glass polar white		7514 28 50		1
glass black		7514 28 55		1



glass polar white	7514 21 50	1
glass black	7514 21 55	1



#### **Touch Sensor 3gang comfort**

- integrated bus coupling unit



glass polar white

glass black

21 ... 32 V= Operating voltage

- with blue operation LED and 6 white status LEDs

- for additional products to complement the installation in matching colours/materials, refer to the Design platform  $\rm R.1/R.3$
- for suitable frames in the same "style" for additional applications, see the Design line R.x

Current consumption	12.5 mA			
Operating temperature	-5 +45 °C	Suitable for	Order no.	Page
Dimensions (W x H x D)	81 x 152 x 10 mm	optional	161	39
Billionologie (VV X TV X B)	01 X 102 X 10 111111	Temperature sensor Wall box	1809	96
		Wall box Wall box for installation in hollow walls	1824	96
Design		Order no.		PU
Berker R.1				
glass polar white		7514 38 60		1
glass black		7514 38 65		1
Berker R.1 - configured				
glass polar white		7514 31 60		1
glass black		7514 31 65		1
Berker R.3				
glass polar white		7514 38 50		1
glass black		7514 38 55		1
Berker R.3 - configured				

7514 31 50

7514 31 55



1





#### **Touch Sensor 4gang comfort**

- integrated bus coupling unit



Operating voltage	21 32 V=
Current consumption	12.5 mA
Operating temperature	-5 +45 °C
Dimensions (W x H x D)	81 x 152 x 10 mm

- with blue operation LED and 8 white status LEDs
- for additional products to complement the installation in matching colours/materials, refer to the Design plat-form R.1/R.3
- for suitable frames in the same "style" for additional applications, see the Design line R.x

Current consumption	12.5 MA	, ,		
Operating temperature	-5 +45 °C	Suitable for	Order no.	Page
Dimensions (W x H x D)	81 x 152 x 10 mm	optional Temperature sensor	161	39
,		Wall box	1809	96
		Wall box for installation in hollow walls	1824	96
Design		Order no.		PU
Berker R.1				
glass polar white		7514 48 60		1
glass black		7514 48 65		1
Berker R.1 - configured				
glass polar white		7514 41 60		1
glass black		7514 41 65		1
Berker R.3				
glass polar white		7514 48 50		1
glass black		7514 48 55		1
Berker R.3 - configured				
glass polar white		7514 41 50		1
glass black		7514 41 55		1





#### **Touch Sensors with thermostat**

- With integrated bus coupling unit
- Operation by gently touching the sensor surfaces on the white LEDs
- For switch, push-button, dimmer, blind and thermostat functions
- Single and two push-button operation configurable
- One push-button operation for switching, buttons, blinds and dimming
- For individual single room temperature control
- For heating and/or cooling mode with/without auxiliary step
- Operating modes: comfort, standby, night operation and frost/heat protection adjustable
- LED display with symbol display
- With 2 additional sensor surfaces for display control
- Display of operating mode, controller lockout, room and outside temperature as well as time in connection with a clock
- Integrated temperature sensor
- Temperature measurement via internal and/or external temperature sensor with mean value formation
- Additional connection for external temperature sensor
- Provision of the internal temperature value via communication object
- Temperature control via local measurement or measured value via object
- Value transmitter for dimming, position, brightness and temperature values 1 and 2 byte
- Separate auxiliary power supply needed
- Operation with non-choked output of KNX voltage supply possible (pay attention to current consumption)
- Bus connection via connecting terminal
- For mounting on a double box, e.g. order no. 1809 (flush mounting) or 1824 (hollow wall mounting)
- For vertical mounting
- With dismantling protection via a screw on the fastening ring
- For individually labelled glass and touch sensors (configured variations), the Web Configurator generates a layout number, which must be additionally specified when placing the order.
- Many options for labelling (text and/or icons) are available via the web configurator at http://ts-glas-sensor.berker.de



#### **Touch Sensor 2gang with thermostat**

- integrated bus coupling unit
- display



Operating voltage 21 ... 32 V= Current consumption 23 mA Operating temperature -5 ... +45 °C Dimensions (W x H x D) 81 x 152 x 10 mm

Only suitable for KNY

- with blue operation LED and 4 white status LEDs
- for additional products to complement the installation in matching colours/materials, refer to the Design plat-
- for suitable frames in the same "style" for additional applications, see the Design line R.x

Order no.

TGA200

161

1809

Page

138

39

96

Wall box for installation in hollow walls	1824	96
Order no.		PU
7564 20 60		1
7564 20 65		1
7564 21 60		1
7564 21 60 7564 21 65		1 1
		1 1
		1 1
	Order no. <b>7564 20 60</b>	Order no. <b>7564 20 60</b>

Suitable for

optional

Wall box

Power supply 24 V DC RMD

Temperature sensor



#### Berker R.3 - configured

· ·		
glass polar white	7564 21 50	1
glass black	7564 21 55	1





#### **Touch Sensor 3gang with thermostat**

- integrated bus coupling unit
- display



21 ... 32 V= Operating voltage С 0 D

- with blue operation LED and 6 white status LEDs
- for additional products to complement the installation in matching colours/materials, refer to the Design plat-form R.1/R.3
- for suitable frames in the same "style" for additional applications, see the Design line R.x

Z1 0Z V-			
23 mA	Suitable for	Order no.	Page
-5 +45 °C	Power supply 24 V DC RMD	1GA200	138
81 x 152 x 10 mm	optional		
	•		39 96
	Wall box for installation in hollow walls	1824	96
	Order no.		PU
	7564 30 60		1
	7564 30 65		1
	7564 31 60		1
	7564 31 65		1
	7564 30 50		1
	7564 30 55		1
	7564 31 50		1
	7564 31 55		1
	-5 +45 °C	-5 +45 °C 81 x 152 x 10 mm  Power supply 24 V DC RMD  optional Temperature sensor Wall box Wall box for installation in hollow walls  Order no.  7564 30 60 7564 31 60 7564 31 65  7564 30 50 7564 30 55	Power supply 24 V DC RMD  -5 +45 °C  81 x 152 x 10 mm  Optional Temperature sensor Wall box Wall box Wall box for installation in hollow walls  Order no.  7564 30 60 7564 31 60 7564 31 65  7564 30 50 7564 30 55



# KNX inputs, outputs and system components

With KNX, a building provides a significant contribution to looking after itself: motion detectors activate lighting as necessary. Windows and doors left open by accident are signalled using magnetic contacts and can be closed automatically. In addition, when the windows are open, the heating/cooling system reduces output. Using the KNX bus system, your house can learn to adapt to changed environmental conditions.





06			Page

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#### KNX inputs, outputs and system components

Presence detectors



#### **Presence detectors**



#### KNX 2-channel presence detector

Supply voltage
Power consumption
Lighting time delay via
potentiometer
Presence time delay via
potentiometer
Brightness threshold
Recommended installation
distance from ground
Operating temperature

Bus 30 V 12 mA 1 to 30 min

30 s to 60 min

5 to 1200 lux 2.5 m to 3.5 m

0°C to 45°C

- TX510 devices are 2-channel presence detectors capable of detecting low amplitude movements (e.g. person working in an office).
- 2 control channels via KNX bus.
- Time delay adjustment for brightness and presence controls via product potentiometers or via ETS.
- Brightness threshold adjustment via product potentiometer or via ETS.
- Detection is by means of 2 pyroelectric sensors located under detection lenses.
- Brightness sensor measures room brightness on a continuous basis, matching it against the brightness threshold set by potentiometer.
- The head of the detector is directional at 90° and can be used to adjust the detection area according to the room configuration.
- Application software allows configuring the 2 channel presence detector 360° TX510.
- The TX510 2-channel presence detector is sensitive to infrared rays associated with heat emitted by moving bodies. Lighting, roller shutter / blind, heating, priority and scene commands can be sent during movement detection, depending on the ambient brightness.
- The lighting channel controls a load in case of presence detection, when the ambient brightness is below an adjustable threshold.
- The presence channel controls a load in case of presence detection, without taking account of the ambient brightness.
- The ambient brightness threshold can be defined by parameterizing or on the device via a potentiometer.
- Lighting and presence delay function sends a command at the end of a delay when no presence has been detected during the delay ("absence" of persons). The delay value can be set by ETS or on the device via a potentiometer.
- Brightness probe locking (Lighting channel) function inhibits the brightness measurement of certain detectors when they control the same output.
- This function authorizes or forbids presence detection by the lighting channel (by a clock, for example, at certain periods). The presence channel continues operating independently.
- The operating mode (Automatic or Semi-automatic) is selected by ETS or via a switch directly on the device.
- Master/Slave function extends the motion detector's detection area by associating it with several other detectors.
- The Scene Execution function sends group commands to different kinds of outputs to create ambiences or scenarios (presence scenario, absence scenario ...)

	Suitable for Optional	Order no.	Page
	Mounting accessory	EE813	109
Design	Order no.		PU
white	TX510		1





#### KNX presence detector with light regulation

Supply voltage	29 V DC
Power consumption	12 mA
Lighting output operation time	1 to 30 min
Brightness threshold	5 to 1200 lux
Minimum adjustment range	0% to 50%
Presence level adjustment	mini to 100%
Recommended installation distance from ground	2.5 m to 3.5 m
Operating temperature	0°C to 45°C

- TX511 devices, in association with KNX dimmers, offer lighting control functions.
- 1 regulation channel via KNX bus.
- Brightness threshold, lighting time delay and minimum dimming level adjustment via product potentiometer or via ETS.
- They are designed to detect low amplitude movements (e.g. person working in an office).
- Detection is by means of 2 pyroelectric sensors located under detection lenses.
- A brightness sensor measures room brightness on a continuous basis, matching it against the brightness threshold set by potentiometer.
- The head of the detector is directional at 90° and can be used to adjust the detection area according to the room configuration.
- Application software allows configuring the 1-channel 360° presence detector light regulator TX511.
- The TX511 1-channel presence detector with light regulation is sensitive to infrared rays associated with heat emitted by moving bodies. It thus detects the presence or absence of persons in a room.
- Lighting level regulation can be active or inactive.
- When regulation is active, the regulation set points can be defined in Lux either via the potentiometer on the device or by ETS.
- When regulation is inactive, the dimming levels can be defined in %either via the potentiometer on the device or by ETS.
- Set point modification via push button function modifies the regulation set point or the dimming level in the presence of persons via a communicating push button. The new value is then stored.
- Lighting delay function starts a delay at each presence detection; it extends the presence period accordingly.
- Priority function allows overriding a regulation set point (active regulation) or a dimming level (inactive regulation).
- Authorization ON or OFF function authorizes or inhibits presence detection (by a clock, for example, at certain periods).
- The operating mode (Automatic or Semi-automatic) is selected by ETS or via a switch directly on the device.
- The Scene function allows defining, for a given scene number, regulation setpoints or lighting levels to create ambiences or scenarios (presence scenario, absence scenario ...)

Order no.

Page

	Optional Mounting accessory	EE813 109
Design	Order no.	PU
white	TXC511	1

Suitable for



Mounting accessory				
Dimensions	Ø70 x 45 mm	Suitable for KNX 2-channel presence detector KNX presence detector with light regulation	Order no. TX510 TXC511	<b>Page</b> 108 109
Design		Order no.		PU
white		EE813		1

Presence detectors

Design white





#### KNX presence detector 360° monobloc

Supply voltage	KNX bus 30 V DC
Busline consumption	12 mA
Lighting output operating time	1 min to 1 hr
Brightness level	5 to 1000 lux

Ø 7 m (installed product height: 2.5 m)

2.5 m to 3.5 m

Hole size required 60 mm (flush mounted) 0°C to 45°C Operating temperature

- Occupancy sensors TCC520E are presence detectors designed to detect low amplitude movements (e.g. person sitting at a desk).
- Detection is by means of a pyro-electric sensor located under detection lens.
- The occupancy sensor measures the brightness in the room on a continuous basis and compares it to the level preset on the potentiometer or ETS parameter.
- One direct lighting control channel (relay output of the product).
- One lighting control channel on the KNX bus.
- Control of presence/ absence mode.
- Time and brightness adjustment via ETS or remote control EE807.
- Area linking: the occupancy sensor in a room can switch the light on in the corridor beside or the
- In addition to the local load, the detector can also activate an actuator connected to the bus when presence is detected and brightness level is below a defined threshold.
- The brightness threshold can be defined by ETS or directly on the device via a potentiometer or by means of the installer remote control EE807.
- The lighting time delay defines the activation duration of the lighting channel in case of occupancy. This delay may be reduced when there is enough ambient light. It can be set locally via potentiometer, remote control ETS, EE807.
- The Lighting channel and local load can also be switched on via the remote control ETS or via a EE808 push button.
- Authorization ON or OFF (Lighting channel) function authorizes or forbids presence detection by the lighting channel (by a clock, for example, at certain periods).
- The operating mode (Automatic or Semi-automatic) is selected by parameterizing or via a switch directly on the device.
- This function extends the presence detector's detection area by associating several other detectors.
- The local load can be controlled by the presence detector or directly via communication objects;

TCC520E		- 10
Order no.		PU
Mounting accessory	EEK005	112
presence detector  IR hand-held transmitter for presence detector	EE808	112
IR configuration hand-held transmitter for	EE807	113
Suitable for Optional	Order no.	Page

110

Presence detectors





#### KNX presence detector with regulation DALI/DSI

Supply voltage **Busline consumption** Lighting output operating

Brightness level Recommended installation distance from ground Detection range

Hole size required Operating temperature

Design

KNX bus 30 V DC 12 mA 1 min to 1 hr

5 to 1000 lux

2.5 m to 3.5 m

Ø 7 m (installed product height: 2.5 m)

60 mm (flush mounted) -10°C to 45°C

- Presence detector with regulation DALI/DSI Occupancy sensors TCC521E are presence detectors designed to detect low amplitude movements (e.g. person sitting at a desk).
- Detection is by means of a pyro-electric sensor located under detection lens.
- The occupancy sensor measures the brightness in the room on a continuous basis and compares it to the level preset on the potentiometer (or by means of the remote control EE807 or ETS parameter).
- One lighting control channel on the KNX bus.
- Control of presence/ absence mode.
- Time and brightness adjustment via ETS or remote control EE807.
- Area linking: the occupancy sensor in a room can switch the light on in the corridor beside or the opposite.
- Application software allows configuring the light regulator -channel of TCC521E.
- The TCC521E presence detector for light regulation embeds a DALI/DSI interface that will be used to control directly DALI/DSI ballasts.
- It can also control KNX dimmers and KNX/DALI gateways (TX216) to fulfill the light regulation functionality.
- The lighting regulation process is activated according the presence and absence.
- When regulation is active, the detector regulates the lighting level in the room according to a set-point value in Lux in the presence of persons and according to another set-point value in the absence of persons.
- When regulation is inactive, the detector sets the dimming level of the dimmer outputs to a configurable set % value in the presence of persons and to another configurable set value in the absence of persons.
- Time delay (Lighting and regulation functions) function starts a délay at each presence detection; it extends the presence period accordingly.
- Authorization ON or OFF (Lighting and regulation functions) function authorizes or inhibits presence detection (by a clock, for example, at certain periods).
- The operating mode (Automatic or Semiautomatic) is selected by parameterizing or via a switch directly on the device
- The Scene function allows defining, for a given scene number, regulation set-points or lighting levels to create ambiences or scenarios (presence scenario, absence scenario).
- Remote control via infra red control EE808.
- Setup with the installer remote control EE807.
- Linking Master / Slave function extends the motion detector's detection area by associating several other detectors.
- In addition to the lighting regulation channel, the detector can also activate an actuator connected to the bus, when presence and brightness level is below a defined threshold.

Suitable for	Order no.	Page
Optional		
IR configuration hand-held transmitter for presence detector	EE807	113
IR hand-held transmitter for presence detector	EE808	112
Mounting accessory	EEK005	112
Order no.		PU

TCC521E white

1

### Presence detectors





#### KNX presence detector monobloc without relay

Supply voltage Busline consumption Lighting output operating time	KNX bus 30 V DC 10 mA 1 min to 1 hr	<ul> <li>High performance detectors to be or in passage areas, where they reduce drastically energy costs.</li> <li>KNX commissioning via ETS or 1</li> </ul>	increase con	
Brightness level	5 to 1000 lux	Suitable for	Order no.	Page
Recommended installation distance from ground	2.5 m to 3.5 m	Optional IR configuration hand-held transmitter for presence detector	EE807	113
Detection range	Ø 7 m (installed product height: 2.5 m)	IR hand-held transmitter for presence detecto Mounting accessory	r EE808 EEK005	112 112
Hole size required	60 to 63 mm (flush mounted)			
Operating temperature	-10°C to 45°C			
Design		Order no.		PU

TCC510S

Suitable for

Order no. TCC530E



#### KNX presence detector monobloc multi-channel

Tank processes detector men	obioo mara onamio
Supply voltage	KNX bus 30 V DC
Busline consumption	315 mA
Lighting output operating time	1 min to 1 hr
Brightness level	5 to 1000 lux
Recommended installation distance from ground	2.5 m to 3.5 m
Detection range	$\emptyset$ 7 m (installed product height: 2.5 m)
Hole size required	60 to 63 mm (flush mounted)

- High performance detectors to be used in premises or in passage areas, where they increase comfort and reduce drastically energy costs.

Order no.

Page

PU

1

- KNX commissioning via ETS.

Optional		
IR configuration hand-held transmitter for presence detector	EE807	113
IR hand-held transmitter for presence detector	EE808	112
Mounting accessory	EEK005	112



#### Mounting accessory

Operating temperature

Design

white

white

	Suitable for KNX presence detector monobloc w/o relay KNX presence detector monobloc multi-channel	Order no. TCC510S TCC530E	<b>Page</b> 112 112
Design	Order no.		PU
white	EEK005		1

-10°C to 45°C



### IR hand-held transmitter for presence detector

Dimensions (L x W x H) 120 x 70 x 10 mm Battery service life  $\approx 3.5 \ years$ 

Scope of functions dependent on the controlled pres-

Required battery (CR 2032) is included in the scope of delivery.

- RC6 code
- additional acknowledgement LED for displaying the IR transmission
- with 4 function buttons (calling up/saving light scene)
- with green "on" and red "off" button (on/off, dimmer function)

Design	Order no.		PU
	KNX presence detector monobloc multi- channel	TCC530E	112
	KNX presence detector monobloc without relay	TCC510S	112
detector.	KNX presence detector with regulation DALI/DSI	TCC521E	111
For control for the lighting connected to the presence	Suitable for KNX presence detector 360° monobloc	Order no. TCC520E	<b>Page</b> 110









#### IP30

# IR configuration hand-held transmitter for presence detector

Dimensions (L x W x H) 111 x 63 x 10 mm Battery service life  $\approx 3.5$  years

Required battery (CR 2032) is included in the scope of delivery.

For convenient configuration of supported presence detectors.

- RC6 code
- additional acknowledgement LED for displaying the IR transmission
- 15 buttons with integrated status-LED
- 3 configuration ranges for control, switch-off delay, brightness threshold
- setting of the brightness threshold manually, by default values or teach-in mode
- default settings can be selected for the brightness threshold daylight, office, corridor
- 2 configuration memories for identical configuration of several presence detectors

Order no.	Page
TCC520E	110
TCC521E	111
TCC510S	112
TCC530E	112
	DU
	TCC520E TCC521E TCC510S



### Light sensitive switch



#### Light sensitive switch

Size

Supply voltage

Maximum connection distance of probe

Operating range

2 to 200 lux 200 to 20000 lux

Operating temperature

Suitable for Cell for flush mounting Cell for wall mounting

Cell for wall mounting

O°C to 45°C

2 modules

This product is mainly intended for automatic control of inside/outside lighting circuits (ON/OFF and dimming controls) and blinds or rolling shutters according to ambient lighting level.

Associated with an external probe, this lightsensitive switch measures natural lighting and controls circuits according to a preset threshold range of 2 to 20000 lux.

Several light sensitive switches may be chained to increase the number of channels. In this case, only one probe is connected to one of the light sensitive switches.

Design	Order no.	PU
without cell	TXA025	1
with cell	TXA026	1



#### Cell for flush mounting

Dimensions 89 x 48 x 32 mm Connection flexible 2 x  $0.75 \text{ mm}^2 / 1 \text{m}$  IP 54 Operating temperature -30°C to  $60^{\circ}\text{C}$ 

- Delivered with 1 m cable

	EE002		1
	Order no.		PU
	Light sensitive switch without cell Light sensitive switch with cell	TXA025 TXA026	113 113
l	Suitable for	Order no.	Page

Order no.



#### Cell for wall mounting

**Dimensions** 

cell for flush mounting

Design

Connection IP Operating temperature	fixed 1 to 4 mm <sup>2</sup> 54 -30°C to 60°C	Light sensitive switch without cell Light sensitive switch with cell	TXA025 TXA026	113 113
Design		Order no.		PU
cell for wall mounting		EE003		1

Suitable for

25 x 25 x 20 mm

Page

Page

113

113

Order no.

EE002

EE003



#### Physical sensors

#### KNX weather station



#### Weather station with GPS surface-mounted

Operating voltage over bus	21 32 V=
Auxiliary voltage	24 V~/=
Rated current (heating incl.)	81 mA
Brightness measuring range	0 150000 lx
Temperature measuring range, linear	- 30 + 80 °C
Measuring range, wind speed	0 35 m/s
Precipitation (Yes/No)	1 bit
Operating temperature	- 30 + 50 °C
Dimensions (W x H x D)	96 x 77 x 118 mm
Weight	≈ 170 g

For detection of wind, precipitation, temperature and brightness as well to process the signals.

Ensure correct orientation and free-standing installation.

- with wind, precipitation, twilight, temperature and brightness sensor
- with automatic summer/winter time change-over
- with heater element for winter operation
- with red programming LED
- for control of shading systems for up to 4 facades
- easy commissioning by means of predefined parameters
- predefined parameters when activating heat protection function or heat recovery function
- periodical emission for outside temperature, frost alarm, brightness, day/night mode, wind alarms and rain alarm predefined
- three preset limit values for wind alarm
- bus connection via connecting terminal
- with plug-in terminals for power supply
- for wall and mast assembly
- with pipe clamp for mast fixing

TXE531		1
Order no.		PU
640 mA RMD Electrical power supply 24 V DC RMD	TGA200	138
optional KNX power supply 2 x 320 mA + 24 V DC,	TXA114	137
Suitable for	Order no.	Page



#### **KNX** weather station

white transparent

Design

Des

Supply voltage	12-40 V DC 12-28 V AC
Consumption	max. 81 mA 24 V DC 10 % residual ripple
IP	44
Operating temperature	-30 °C to 50°C
Dimensions	96 x 77 x 118 mm

The weather station GPS-KNX TG053A measures the outdoor temperature, the wind speed and light. It detects rain and daylight fall.

The weather station gets date/time and site location data from GPS signals. It calculates also the exact position of the sun (Azimuth and Altitude) based on site coordinates and date/time data. This information (brightness level and sun position) is used to control blinds with slats based on sun tracking for up to 6 building frontages.

TG053A compact case houses all sensors, electronic data processing gear, GPS antenna and KNX bus connection.

The values measured are sent to the KNX bus as physical values (2x8 bits ou 1 bit). Each output has communication objects indicating the measured and calculated values. The state of outputs depends on one or more levels. Thresholds can be defined by settings or the communication objects.

The weather station TG053A includes an annual clock and a weekly clock. The clock channels can switch the outputs using the communication objects. The weekly clock controls up to four different time settings for each day of the week. The annual clock can be used to define up to three periods in the year with two daily ON/OFF commands for each of them. The switching times can be defined by settings or the communication objects.

The weather station also has 8 logical AND gates and 8 logical OR gates, each with four inputs. All control events, time programs, and the 8 logical inputs (such as communication objects) can be used as inputs of logical gates. The output of each gate can be configured in 1-bit or 2 x 8-bit format.

ETS software performs KNX configuration.

	Suitable for	Order no.	Page
	Support for TG053 weather station, big	TG353	115
	Analogue input 4gang RMD	ST312	138
	Power supply 1x30V, 320 mA + 1x24V, 640 mA RMD	TXA114	137
	Electrical power supply 24 V DC RMD	TGA200	138
esign	Order no.		PU
hite	TG053A		1





#### Support for TG053 weather station

Suitable for	Order no.	Page
KNX weather station	TG053A	114
Weather station with GPS surface-mounted	TXE531	114

Design	Order no.	PU
big (75 x 60 x 360 mm)	TG353	1
small (45 x 53 x 60 mm)	TG354	



### Power supply for TG053 weather station

Supply voltage 230 V 160 mA max

24 V DC TBTS 0.25 A max 54

Operating temperature  $-25 \,^{\circ}\text{C}$  to  $50 \,^{\circ}\text{C}$  Dimensions  $50 \, \text{x} \, 50 \, \text{x} \, 24 \, \text{mm}$ 

Design	Order no.	PU
black	TP110	1

#### **Analogue inputs**



#### Analogue input 4gang RMD

50/60 Hz Frequency Operating voltage over bus 21 ... 32 V= Auxiliary voltage 24 V~ 0-1; 0-10 V Voltage, inputs Input impedence, voltage 18 kΩ Sensor output voltage 24 V= max. 100 mA Sensor output current Current consumption 170 mA 0-20; 4-20 mA Inputs, current Input impedence, current 100 Ω Limit values per channel 2 Operating temperature -5 ... +45 °C Assembling height as from DIN rail 63 mm Dimensions (W x H x D) 72 x 90 x 70 mm Width of rail mounted device (RMD)

The analogue input is for the registration and treatment of independent analogue sensor signals. Depending on the input signal, limiting value messages can be transmitted via KNX.

Input signals to according to DIN IEC 381-1, -2

with green/red status LED (operation/fault)
 with programming button and red programming LED
 for active sensors
 for wind, precipitation, brightness, temperature, twilight as well as humidity and temperature sensor, surface-mounted
 extendable with an analogue input module 4gang
 bus connection via connecting terminal
 inputs configurable can be set individually
 input 4-20 mA will be controlled for wire break

- input 4-20 mA will be controlled for wire break
   cyclic transmission or transmission at absolute input modification settable
- with screw terminals
- with system interface for analogue input module

Suitable for Electrical power supply 24 V DC RMD	Order no. TGA200	<b>Page</b> 138
Optional Safety transformer	ST312	138

Design	Order no.	PU
light grey	TYF784	1

Physical sensors



#### Wind gauge



#### Wind gauge

Supply voltage contact loading capacity

Operating temperature Dimensions of the enclosure 230 V AC 50 Hz 230 V AC 4 A 65

-25 °C to 50°C 80 x 100 x 52 mm

- Adjustment of wind's speed limit :

- Reaction time when exceeding this limit : 3 seconds (5 seconds max.)

In the system tebis, the wind gauge TG050 is used as a protection device for solar shading equipment against strong wind. The speed of the wind is measured by the wind gauge.

If the wind's speed exceeds the value adjusted on the potentiometer for longer than three seconds, the solar shading equipment is retracted and kept in security position for 10 minutes.

After this delay, if the wind speed has decreased, the solar shading equipment can again be controlled by switches.

up to 55 km/h (range ex-works 25 km/h)

- Close time at wind: 10 minutes (fixed)

Design Order no. PU **TG050** wind gauge and connection enclosure IP65

#### Sensor insert



#### Sensor insert

- e.g. for temperature sensor PT100

- with plug-in terminals

- without spreader claws

PU Design Order no. 7594 10 01 10 Sensor insert

#### Central plate for sensor insert

Use only with intermediate ring for central plate from the corresponding range.

Labelling field cannot be used.

- e.g. for temperature sensor PT100

- with slots for air circulation

Design Berker S.1/B.3/B.7, Q.1/Q.3, K.1/K.5	Order no.	PU
white glossy	7594 04 02	1
polar white glossy	7594 04 09	1
polar white matt/velvety	7594 04 89	1
anthracite matt	7594 04 85	1
aluminium matt, lacquered	7594 04 83	1
light bronze matt, lacquered	7594 04 04	1
stainless steel matt, lacquered	7594 04 03	1



### Input modules

- Power supply by Bus.
- The modules are installed in a 60 mm dia. Flush mounting box in association with a push button or a switch.
- Application software is used to configure the individual inputs.
- The sensors associated to the inputs (push buttons, switches, automatic controls) are used to control lighting, shutters, blinds.
- The Toggle Switch function changes the status of the controlled output whenever it is operated.
- This function is used for switching lighting, blind or heating circuits ON or OFF. The command may come from switches, push buttons or automatic controls.
- This function is used to control lighting circuits using one or two buttons
- The ON / OFF function transmits the ON / OFF object (short key-press).
- The Dimming function transmits the Dimming object (long key-press).
- This function controls a shutter or a blind using one or two push buttons.
- The Up / Down function transmits the Up / Down object (long key-press).
- The Stop / Angle function transmits the Stop / Angle object (short key-press).
- The Alarm 1 and Alarm 2 functions allow alarms coming from automatic controls to be periodically emitted (anemometer, rain detector, light sensitive switch, etc.)
- The Heating mode function is used to select a heating or air conditioning set point (Comfort, Eco, Frost protection, Absence). The command may come from switches, push buttons or automatic controls.
- The Value function (2 byte) is used for sending: Percentage %, Temperature °C, Luminosity level Lux, Brightness value % and Value 0-65535.
- The Scene function is used to select and storing scenes.
- The Timer function is used to switch ON or OFF a lighting circuit, shutters, heating for an adjustable time.
- The Priority function allows an input to be forced to a defined status.
- The Two Channel mode function allows controlling, with the same push button, two independent circuits having different functions.
- The Jamming function is used to lock an input via an object on the bus.
- With programming button and red programming LED.



#### O input universal madula

2-input universal module	
Contact current	0.5 mA
Supply voltage	30V DC
Busline max consumption	7 mA
Dimensions	38 x 35 x 12 mm
Degree of protection	IP 30
Operating temperature	+0 +45°C
Storage temperature	-20 +70°C
Standards	EN 60 669-2-1 NF EN 50 428

- Universal input modules are used to interface contacts free of potential with KNX bus.
- In this way, push buttons, switches or conventional automatic controls can become communicating devices.
- 2 independent channels.

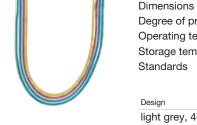
light grey, 2gang	TXB302	1
Design	Order no.	PU



### 4-input universal module

Contact current	0.5 mA
Supply voltage	30V DC
Busline max consumption	8 mA
Dimensions	38 x 35 x 12 mm
Degree of protection	IP 30
Operating temperature	+0 +45°C
Storage temperature	-20 +70°C
Standards	EN 60 669-2-1 NF EN 50 428

- Universal input modules are used to interface contacts free of potential with KNX bus.
- 4 independent channels.



Design	Order no.	PU
light grey, 4gang	TXB304	1



#### 4 LED kit

	Suitable for 2-input / 2-output indication of state 4-input / 4-output indication of state	Order no. TXB322 TXB344	<b>Page</b> 118 118
Design	Order no.		PU
Ø 5mm, red	TG308		1



### Input / output modules

- Power supply by Bus.
- Control of 2 LEDs.
- The modules are associated with push buttons or switches and are installed in a flush-mounted wall box of diameter 60mm and adapted depth.
- Connection length to push button and LEDs shall not exceed 5m.
- Physical addressing is done using push button and LED.
- Application softwares are used to configure the individual inputs of the TXB322 products.
- The products allow controlling lighting, blinds, shutters, heating and scenes.
- The Priority function sends priority-start or priority-stop commands.
- The Scene function sends group controls to different kinds of outputs to create ambiences or scenarios (leaving home scenario, reading ambience, etc.).
- The Jamming function authorizes product locking. Jamming forbids sending commands.
- The 2-channel mode function allows controlling, with the same push button, 2 independent circuits having different
- LED outputs (statusindication) control the lighting of standard LED signal lamps.



#### 2-input / 2-output module LED (status indication)

light grey, 2gang		TXB322		1
Design		Order no.		PU
	NF EN 50 428	4 LED kit	TG308	117
Standards	EN 60 669-2-1	Optional	10111.	91
Storage temperature	-20 +70°C	Glass sensors with thermostat Push-button, NO contact	1811 1.	90 91
Operating temperature	+0 +45°C	Berker TS Crystal		95
Degree of protection	IP 30	Suitable for	Order no.	Page
Dimensions	38 x 35 x 12 mm	- 2 independent channels.		
Busline max consumption	15 mA	- Outputs can control conve	ntional signaling LE	Ds.
Supply voltage	30V DC	<ul> <li>Push buttons, switches and can thus be used to drive s</li> </ul>		
LED outputs specifications	I = 850 μA U = 1.8V DC	The universal input module contacts with KNX.  Problem to the contact of the	•	



#### 4-input / 4-output module LED (status indication)

	•
LED outputs specifications	I = 850 μA U = 1.8V DC
Supply voltage	30V DC
Busline max consumption	15 mA
Dimensions	38 x 35 x 12 mm
Degree of protection	IP 30
Operating temperature	+0 +45°C
Storage temperature	-20 +70°C
Standards	EN 60 669-2-1 NF EN 50 428

- The universal input modules interface potential free contacts with KNX.
- 4 independent channels

pply voltage	30V DC	- 4 independent chamileis.		
sline max consumption	15 mA	Suitable for	Order no.	Page
nensions	38 x 35 x 12 mm	Berker TS Crystal Glass sensors with thermostat		95
gree of protection	IP 30	Push-button, NO contact	1811 1.	90 94
erating temperature	+0 +45°C	Optional 4 LED kit	TG308	117
orage temperature	-20 +70°C	4 LED KIL	16306	117
andards	EN 60 669-2-1			

Order no. PU **TXB344** light grey, 4gang



#### Universal interface 8-gang comfort

Supply bus KNX	24 VDC (+6 /-4 V)
Power consumption KNX	max. 6mA
Number of inputs	up to 8
Wiring length	≤ 10 m
Constant current	0.8 mA
Dimensions	44 x 48 x 32 mm
Ambient temperature	-5 °C to +45 °C
Protective system	IP20

upon the loaded application.

The eight-port universal interface, extra has eight channels which work as inputs or outputs, depending Separately programmable for each input: Switching, toggling, dimming (two-key principle)\*, dimming (single-key principle), Venetian blind\*, dimming value transmitter, calling lightscapes, storing lightscapes, control, forced action.

\* For dimming (two-key principle) and Venetian blind applications, two inputs are necessary, in each case.

Suitable for	Order no.	rage
Berker TS Crystal		95
Glass sensors with thermostat		90
Push-button, NO contact	1811 1.	94

Design Order no. PU light grey, 4gang TYB708D



### **Binary inputs**

- Power failure detection is available to filter false alarms due to cut-off of all inputs connected on the same reference phase.
- Output states are displayed on the product.
- Outputs can be controlled manually from the product
- Application software is used to configure the individual inputs
- The sensors associated to the inputs (push buttons, switches, automatic controls) are used to control lighting, shutters, blinds
- The Toggle Switch function changes the status of the controlled output whenever it is operated
- This function is used for switching lighting, blind or heating circuits ON or OFF. The command may come from switches, push buttons or automatic controls
- This function is used to control lighting circuits using one or two buttons
  - The ON / OFF function transmits the ON / OFF object (short key-press)
  - The Dimming function transmits the Dimming object (long key-press)
- This function controls a shutter or a blind using one or two push buttons.
  - The Up / Down function transmits the Up / Down object (long key-press)
  - The Stop / Angle function transmits the Stop / Angle object (short key-press)
- The Alarm 1 and Alarm 2 functions allow alarms coming from automatic controls to be periodically emitted (anemometer, rain detector, light sensitive switch, etc.)
- The Heating mode function is used to select a heating or air conditioning set point (Comfort, Eco, Frost protection, Absence).
- The command may come from switches, push buttons or automatic controls.
- The Value function (2 byte) is used for sending: Percentage %, Temperature °C, Luminosity level Lux, Brightness value % and Value 0-65535.
- The Scene function is used to select and storing scenes.
- The Timer function is used to switch ON or OFF a lighting circuit, shutters, heating for an adjustable time
- The Priority function allows an input to be forced to a defined status
- The Two Channel mode function allows controlling, with the same push button, two independent circuits having different functions.
- The Jamming function is used to lock an input via an object on the bus
- The power cut detection function is used for specific management of an input during a power cut, taking into account all the status changes which could occur during this period
- With programming button and red programming LED
- Bus connection via connecting terminal
- quickconnect terminal



4-channel input module	
Signal voltage	230V AC 50 Hz
Maximum connection distance per input	100 m
Minimum contacts closing time	18 ms
Low signal level	0 -> 100 V
High signal level	> 195 V
Supply voltage	30V DC
Busline max consumption	4 mA
Width	4 modules

- Universal input modules allow interfacing 230V AC contacts supplied by KNX bus
- In this way, push buttons, switches or conventional automatic controls can become communicating devices
- 4 independent channels can be connected on different phases
- It is possible to connect 10 illuminated push buttons per channel

Design	Order no.	PU
light grey	TXA304	1

0°C to +45°C

0.75 to 2.5 mm<sup>2</sup>



#### 6-channel input module

Operating temperature

Connections

(	Signal voltage	24 230V AC (50Hz)/DC
	Maximum connection distance per input	100 m
ľ	Minimum contacts closing time	50 ms
(	Supply voltage	30V DC
E	Busline max consumption	7 mA
١	Vidth	6 modules
(	Operating temperature	0°C to +45°C
(	Connections	0.75 to 2.5 mm <sup>2</sup>

- Universal input modules allow interfacing contacts free of potential or supplied with 24...230V AC/DC power by bus KNX.
- In this way, push buttons, switches or conventional automatic controls can become communicating devices.
- 6 independent channels with automatic recognition of the type of connected circuit (24...230V AC/DC or circuit free of potential).
- It is possible to connect 5 illuminated push buttons per channel

Design	Order no.	PU
light grey	TXA306	1

### Time switches





#### 10-channel input module

Signal voltage	230V AC 50 Hz max
Maximum connection distance per input	100 m
Minimum contacts closing time	18 ms
Low signal level	0 -> 100 V
High signal level	> 195 V
Supply voltage	30V DC
Busline max consumption	15 mA
Width	6 modules
Operating temperature	0°C to +45°C
Connections	0.75 to 2.5 mm <sup>2</sup>

- Universal input modules allow interfacing 230V AC contacts supplied by KNX bus
- In this way, push buttons, switches or conventional automatic controls can become communicating devices
- 10 independent channels can be connected on different phases

Design	Order no.	PU
light grey	TXA310	1

### Time switches



#### 2-channel electronic time switches weekly cycle

Supply voltage	Bus 30 V DC		
Consumption 9.5 mA max (TXAC 10 mA max (TXAC			
IP	20		
Operating temperature	-5 °C to 45°C		
Size	2 modules		

- Product delivered with current time and date set.
- Automatic change of winter / summer time
- Programming key:
  - for permanent overrides,
  - for program copy or save
- Programming for day or group of days
- 56 program steps On, Off, 1 s to 30 min pulse or options
- Permanent overrides On or Off (permanent light on).
- ON or OFF temporary priority settings, using configuration tools
- Temporary overrides On or Off (flashing)
- Holiday mode : overrides On or Off between two dates
- Simulation of presence
- Display bar graph of daily profile for both channels.
- Keyboard locking possible
- Programmable with power off
- DCF Synchronization (only for TXA023)
- Possible transmission of date and time on the bus

Design	Order no.	PU
weekly time switch	TXA022	1
weekly time switch with DCF	TXA023	1



# 4-channel programmer annual and weekly cycle with programming key

with programming key	
Supply voltage	2132 V DC SELV
Bus consumption	max. 25mA
IP	20
Operating temperature	-10 °C to 50°C
Size	4 modules

- Product delivered with current time and date set.
- Automatic change of winter / summer time
- Programming key:
  - for permanent overrides,
  - for program copy or save
- Programming for day or group of days
- 300 program steps On, Off , **Π** or **ΠΠ**
- Permanent overrides On or Off ( permanent light on).
- Temporary overrides On or Off ( flashing)
- Overrides (temporary, permanent or time delayed) remote activation possible.
- Simulation of presence
- Keyboard lock function aby PIN number
- Counter of operating time on every output
- Programmable with power off
- Display with backlight

Design	Order no.	PU
yearly time switch	TYA720	1

- with radio receiver for the DCF77 signal

- with wall bracket and screw fitting







### DCF receiver for time switch

Operating temperature  $-20 ... + 50 \,^{\circ}\text{C}$ Line length max. 200 m Conductor cross-section (flexible) 0.5 ... 1.5 mm<sup>2</sup>

Conductor cross-section (rigid)

0.5 ... 2.5 mm<sup>2</sup>

 Design
 Order no.
 PU

 DCF receiver for time switch
 EG001
 1



### Lock key

Avoids unrequested handling of the TXA022 and TXA023 time switches.

Design	Order no.	PU
yellow	EG004	1



#### **Programming key**

Design	Order no.	PU
grey	EG005	1



### Storage tray for programming keys

	Suitable for	Order no.	<b>Page</b>
	Blocking key for time switches	EG004	121
	Programming key for time switches	EG005	121
Design Storage tray for programming keys	Order no.		PU 1



#### **USB** programming software

Operating temperature  $0 \dots +40 \, ^{\circ}\text{C}$ 

Design	Order no.	PU
USB programming software	EG003G	1

### Consumption indicator and energy meters



### Consumption indicator and energy meters

Bus power supply



#### **KNX** consumption indicator

Mains power supply	230 V AC +10/-15% 50 Hz
Max. consumption on the bus	15 mA to 30 V DC
Dissipated output	0.5 W max
Connection capacity: - for the upper terminals - for the lower terminals	0.75 to 2.5 mm <sup>2</sup> 0.2 to 1.5 mm <sup>2</sup>
IP	20
Operating temperature	-5 °C to 45°C
Size	6 modules

30 V DC (TBTS)

The consumption indicator informs users of their consumption through 4 metering channels. It is used to monitor and control energy consumption and is built into an automatic global energy management system.

- This product can be used in a single-phase or threephase installation. In three-phase, consumption is measured phase by phase
- The data is sent on the KNX bus
- In addition to metering, the consumption indicator also has:
  - 1 tariff input T1/T2
  - a temperature input for the connection of a probe
- The system can be constructed with several TE330.
   This thus makes it possible to measure one or more circuits using toroids
- The consumption indicator is adapted for use with domovea. In this case, the display devices are:
  - meter (consumption)
  - meter (production)
  - energy
  - power
  - sub-counter (consumption)
- It can also be interfaced with the ambiance units or other display systems thanks to objects sent on the KNX bus
- It is used to display the current tariff and the energy consumption according to the current tariff. The tariff can also be distributed to other devices on the bus
- Includes 3 current transformers and straps.

Design	Order no.	PU
without current transformer	TE332	1
with current transformer	TE331	1



#### Current transformer 1850 - 1A

CT ratio	up to 90 A	Suitable for	Order no.	Pag
Operating range	0.2 90 A	KNX consumption indicator	TE33.	12
Connection capacity (flexible)	0.5 mm <sup>2</sup>			

Design	Order no.	PU
current transformer	EK028	1



### Three phase energy meter, direct reading 100A

Voltage 230 V AC 50/60 Hz Starting current 80 mA

Base current 20 A

Max current 100 A

Energy meters are aimed to measure the active energy consumed by an installation.

They permit to have under control the real cost of an installation and to divide the consumption between the different appliances.

- Fully compliant with the european standard EN50470-3.
- Class B.
- Accuracy 1%
- Energy readout : 7 digits.
- Backlighted display
- Indication of instantaneous power consumption
- Total / partial counter (excepted MID references)
- Pulsed ouput
- unlimited saving of measures.
- LED flashing according to consumption.
- Option : tarif 1 / tarif 2.
- Three phases energy meters are adapted to all kind of networks.
- Display indication in case of bad wiring.

Design	Order no.	PU
light grey	TE360	1



## Consumption indicator and energy meters





#### Three phase energy meters, connection via current transformers

Voltage 230/400 V AC 50/60 Hz

Starting current

Max current on CT secondary

Energy meters are aimed to measure the active energy consumed by an installation.

They permit to have under control the real cost of an installation and to divide the consumption between the different appliances.

- Fully compliant with the european standard EN50470-3.
- Class B.
- Accuracy 1%
- Energy readout : 7 digits.
- Backlighted display
- Indication of instantaneous power consumption
- Total / partial counter (excepted MID references)
- Pulsed ouput
- unlimited saving of measures.
- LED flashing according to consumption.
- Option : tarif 1 / tarif 2.
- Three phases energy meters are adapted to all kind of networks.
- Display indication in case of bad wiring.

Design	Order no.	PU
light grey	TE370	1





Current transformers for TE360 and TE3	370	
Design	Order no.	PU
50 / 5 A	SRA00505	1
100 / 5 A	SRA01005	1
150 / 5 A	SRA01505	1
200 / 5 A	SRA02005	1
250 / 5 A	SRA02505	1
300 / 5 A	SRI03005	1
400 / 5 A	SRC04005	1
600 / 5 A	SRC06005	1
800 / 5 A	SRD08005	1
1000 / 5 A	SRD10005	1
1500 / 5 A	SRD15005	1
2000 / 5 A	SRE20005	1



#### KNX impuls gateway

(multi-energy).

Powering through the bus 20 to 30 V = TBTS Bus consumption

TXE771: 7 mA max (6 mA typ) TXE773: 8 mA max (6 mA typ)

Battery capacity 1.2 Ah

Protection index IP44 Operating temperature -20°C to +55°C **Dimensions** 150 x 85 x 35 mm

Powered by the bus, these two gateways count pulses

- An integrated battery ensures metering for 30 days of bus cutout and data backup.
- The input not only allows interfacing S0 signals of type EN62053-31 and EN1434-2, EN1434-3 but also potential free contacts.
- The gateways transmits the metering data from the flow or energy sensors to the bus.
- Pulse visualizer LED
- Synchronization with the existing electricity tariff through the bus possible with KNX TE331 consumption indicators
- 1 totalizing meter + 1 partial meter for each measurement category
- Setting of pulse inputs. Each of the inputs must be set to define the type of measurement category and the weight of the pulses:
  - Volume or energy for calorimetry.
  - Volume for the flowmeter
  - · Volume of gas meters
  - Energy for the electric meters

Design	Order no.	PU
light grey, single input	TXE771	1
light grey, triple input	TXE773	1

Din rail switching actuators



### Din rail switching actuators

- Common parameter of switching actuator
- Output states are displayed on the product.
- Outputs can be controlled manually from the product
- Each output to be individually configurated for Lighting or Heating
- The ON/OFF function is used to switch a lighting circuit ON or OFF
- The Status indication function displays the status of the output contact
- The Timer function is used to switch a lighting circuit ON or OFF for an adjustable time
- The Time delayed switch function combines a toggle function and a cut-off delay
- The Priority function allows overriding an output to a definite status, ON or OFF
- The Jamming function allows locking an output in its current status
- Each output may be integrated into 32 different scenes
- The Timer and Automatic controls function allow the outputs to by controlled by:
  - Timer functions: Timer/toggle change over, Switching delay, Tripping delay, Switching and tripping delay, Timer.
  - Automatic control functions: Authorization, Logical AND or Logical

#### OR

- Each output may be integrated into 32 different scenes
- Manual override, permanent or Time limited.
- Behavior in the event of bus voltage failure/Return configurable
- With programming button and red programming LED
- Bus connection via connecting terminal
- quickconnection terminal

	Max. switc	Max. switching capacity for switching actuators				
	TYA604A TYA606A TYA608A TYA610A	TYA604B TYA606B TYA608B TYA610B	TYA604C TYA606C TYA608C TYA610C	TYA604D TYA606D TYA608D TYA610D TYM616D TYM620D TYF616	TYA606E	TYB601B TYB602F TYB692F
230 V incandescent and halogen lamps	800 W	1200 W	2300 W	2300 W	2300 W	600 W
Halogen ELV (12 or 24V) via ferromagnetic transformer	800 W	1200 W	1600 W	1600 W	1600 W	600 W
Halogen ELV (12 or 24V) via Electronic transformer	800 W	1000 W	1200 W	1200 W	1380 W	600 W
Fluorescent tubes non compensated	800 W	1000 W	1200 W	1200 W	800 W	600 W
Fluorescent tubes for electronic ballast	450 W	550 W	725 W	725 W	25 x 18 W	6 X 58 W
Parallel compensated fluorescent tubes	-	-	-	1500 W (200µF)	1000 W (130µF)	-
Compact fluorescent with PF < 0.6	150 W	300 W	425 W	425 W	25 x 18 W	6 X 18 W



#### 4-channel switching actuator 4A/10A/16A/16A (Capacitive Load)

Supply voltage 30 V DC
Power dissipation 1 W (TYA204A)
3 W (TYA204B)

3 W (TYA204B) 8 W (TYA204C) 8 W (TYA204D)

Width 4 modules Operating temperature  $0^{\circ}\text{C to } +45^{\circ}\text{C}$  Connections 0.75 to 2.5 mm<sup>2</sup>

- The 4-fold output module TYA604. are relays designed to interface Bus KNX with on/off electric loads
- 4 volt-free contacts

Design	Order no.	PU
switching actuator 4A	TYA604A	1
switching actuator 10A	TYA604B	1
switching actuator 16A	TYA604C	1
switching actuator 16A for capacitive load	TYA604D	1





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#### 6-channel switching actuator 4A/10A/16A/16A (Capacitive Load)

30 V DC - The 6-fold output module TYA606. are relays designed Supply voltage to interface Bus KNX with on/off electric loads 1 W (TYA206A) Power dissipation 5 W (TYA206B) - 6 volt-free contacts

12 W (TYA206C) 12 W (TYA206D) 6 W (TYA206E)

Width 4 modules 6 modules (TYA606E)

0°C to +45°C Operating temperature 0.75 to 2.5 mm<sup>2</sup> Connections

Design	Order no.	PU
switching actuator 4A	TYA606A	1
switching actuator 10A	TYA606B	1
switching actuator 16A	TYA606C	1
switching actuator 16A for capacitive load	TYA606D	1
switching actuator 16A for capacitive load with current monitoring	TYA606E	1



#### 8-channel switching actuator 4A/10A/16A/16A (Capacitive Load)

 The 8-fold output module TYA608. are relays designed to interface Bus KNX with on/off electric loads 30 V DC Supply voltage 2 W (TYA206A) Power dissipation 6 W (TYA206B) 12 W (TYA206C) - 8 volt-free contacts

Width 6 modules 0°C to +45°C Operating temperature Connections 0.75 to 2.5 mm<sup>2</sup>

Design	Order no.	PU
switching actuator 4A	TYA608A	1
switching actuator 10A	TYA608B	1
switching actuator 16A	TYA608C	1
switching actuator 16A for capacitive load	TYA608D	1



#### 10-channel switching actuator 4A/10A/16A/16A (Capacitive Load)

30 V DC Supply voltage Power dissipation

3 W (TYA206A) 7 W (TYA206B) 15 W (TYA206C) 15 W (TYA206D)

0.75 to 2.5 mm<sup>2</sup>

12 W (TYA206D)

6 modules Operating temperature 0°C to +45°C The 10-fold output module TYA610. are relays designed to interface Bus KNX with on/off electric loads

10 volt-free contacts

Each output to be individually configurated for Lighting or Shutters/Blinds applications

Shutters/Blinds applications required two Output Channel

Design Order no PU **TYA610A** 1 switching actuator 4A switching actuator 10A TYA610B 1 switching actuator 16A TYA610C 1 switching actuator 16A for capacitive load TYA610D 1



### Output 16A C-Load adapted / shutter / blind

Connections

Supply voltage KNX DC21...32 V SELV max. 20 W (TYM616D) Power dissipation max. 25 W (TYM620D) Width 8 modules (TYM616D)

10 modules (TYM620D)

Operating temperature 0.5 to 6 mm<sup>2</sup> (rigid) Connections 0.5 to 4 mm<sup>2</sup> (flexible)

The device receives telegrams from sensors or other controllers via the KNX installation bus and switches electrical loads with its independent relay contacts. The devices are particularly suitable for capacitive loads and are designed for high-load currents.

Design	Order no.	PU
output 16A C-Load 16gang	TYM616D	1
output 16A C-Load 20gang	TYM620D	1

Operating temperature

Screw terminal connection

Din rail dim actuators





#### Multi-application outputs module 10 A

Supply voltage KNX	DC2132 V SELV
Minimum switching current	100 mA
230 V AC shutter motors	6 A max
230 V AC fan-coil unit motors	4 A max
24 V DC shutter motors	6 A max
Surge voltage	4 kV
Protection rating (box)	IP20
Protection rating of box under faceplate	IP30
Width	10 modules

The device receives telegrams from sensors or other controllers via the KNX installation bus and switches electrical loads with its independent relay contacts.

Design	Order no.	PU
Multi-application outputs module 10 A	TYF616	1

-5°C to +45°C

0.75 to 4 mm<sup>2</sup>

1 x 2.5 x 12.5 mm



#### Busbars and endcaps for output modules

Cu cross section	6 mm <sup>2</sup>
Rated current In	16 A 250 V AC
Operating temperature	+5°C to +45°C
Storage temperature	-25°C to +70°C
Moisture resistance	max. 85% RH non-condensing at 20°C
	non-condensing at 20 C

The busbars are used to ease the connection of output relays to a dedicated phase by decrease the necessary time to bridge the phase to the different output relays.

Design	Order no.	PU
busbar for TXM616D, 8-pin busbars	TGM616D	2
busbar for TXM620D, 10-pin busbars	TGM620D	2





### **Endcaps for output modules**

Contact pin (HxWxD)

Design	Order no.	PU
endcaps for TGM616D or TGM620D busbars	TGM600E	10 pairs

### Din rail dim actuators

#### Universal dim actuators

- 1 dimming channel controlled by KNX bus.
- Universal dimmer with automatic load recognition
- Min/Max level local setting.
- Display of channel state on the product.
- Manual mode that allows dimming even when the bus is disconnected.
- Control button for manual mode.
- Per channels 32 light scenes with a related scene speed
- Short-circuit, over heating & overload protection with LED indication
- With programming button and red programming LED in same button.

- Bus connection via connecting terminal.
- quickconnect terminal.



### 1-channel universal dimmer 300W

Supply voltage	30 V DC 230 V AC 50/60 Hz
Busline max consumption	2.3 mA
Consumption without load	3 W
Power dissipation	4 W
Width	4 modules
Operating temperature	-5°C to +45°C
Connections	0.75 to 2.5 mm <sup>2</sup>

- 230 V incandescent and halogen lamps 300W
- Halogen ELV (12 or 24V) via ferromagnetic transformer suitable for dimming 300VA.
- Halogen ELV (12 or 24V) via electronic transformer suitable for dimming 300W
- Dimmable CFL lamp (CFLi) with integrated ballast suitable for dimming 60W
- Dimmable LED lamp(LEDi) with integrated ballast suitable for dimming 60W

Design	Order no.	PU
light grey	TYA661AN	1

### KNX inputs, outputs and system components Din rail dim actuators





#### 1-channel universal dimmer 600W

Supply voltage

Connections

Design

light grey

Connections

50/60 Hz Busline max consumption 2.3 mA Consumption without load 3 W 7.5 W Power dissipation Width 4 modules -5°C to +45°C Operating temperature 0.75 to 2.5 mm<sup>2</sup>

- 230 V incandescent and halogen lamps 600W

- Halogen ELV (12 or 24V) via ferromagnetic transformer suitable for dimming 600VA.

- Halogen ELV (12 or 24V) via electronic transformer suitable for dimming 600W

Dimmable CFL lamp (CFLi) with integrated ballast suitable for dimming 120W

Dimmable LED lamp (LEDi) with integrated ballast suitable for dimming 120W

Design Order no. PU TYA661BN light grey

30 V DC 230 V AC



#### 2-channel universal dimmer 300W

230 V AC Supply voltage 50/60 Hz Busline max consumption 2.3 mA Consumption without load 300 mW Power dissipation per output 2 W 4 modules Operating temperature -5°C to +45°C Connections 0.75 to 2.5 mm<sup>2</sup> - 230 V incandescent and halogen lamps 300W

- Halogen ELV (12 or 24V) via ferromagnetic transformer suitable for dimming 300VA.

- Halogen ELV (12 or 24V) via electronic transformer suitable for dimming 300W

- Dimmable CFL lamp (CFLi) with integrated ballast suitable for dimming 60W

- Dimmable LED lamp(LEDi) with integrated ballast suitable for dimming 60W

PU Order no TYA662AN 1



### 3-channel universal dimmer 300W

30 V DC 230 V AC Supply voltage 50/60 Hz 2.3 mA Busline max consumption 5 W Consumption without load 8 9 W Power dissipation Width 6 modules -5°C to +45°C Operating temperature

- 1, 2, or 3 dimming channels controlled by KNX bus.

The product can control 1, 2 or 3 independent lighting circuits, the outputs number depends on the switch

230 V incandescent and halogen lamps 300W, 600W, 900W according to output selector switch per channel.

Halogen ELV (12 or 24V) via ferromagnetic transformer suitable for dimming 300W, 600W, 900W according to output selector switch per channel.

Halogen ELV (12 or 24V) via electronic transformer 300W, 600W, 900W according to output selector switch per channel.

Dimmable CFL lamp (CFLi) with integrated ballast suitable for dimming 210W, 120W, 60W according to output selector switch per channel.

Dimmable LED lamp (LEDi) with integrated ballast suitable for dimming 210W, 120W, 60W according to output selector switch per channel.

Order no. PU Design light grey TYA663AN

0.75 to 2.5 mm<sup>2</sup>



### 4-channel universal dimmer 300W

30 V DC 230 V AC Supply voltage 50/60 Hz 2.3 mA Busline max consumption Consumption without load 1 W Power dissipation 7.5 W Width 8 modules Operating temperature -5°C to +45°C Connections 0.75 to 2.5 mm<sup>2</sup>

- 230 V incandescent and halogen lamps 300W
- Halogen ELV (12 or 24V) via ferromagnetic transformer suitable for dimming 300VA.
- Halogen ELV (12 or 24V) via electronic transformer suitable for dimming 300W
- Dimmable CFL lamp (CFLi) with integrated ballast suitable for dimming 60W
- Dimmable LED lamp(LEDi) with integrated ballast suitable for dimming 60W

Design	Order no.	PU
light grey	TYA664AN	1

### Din rail dim actuators





#### 4-channel universal dimmer 600W

Supply voltage	30 V DC 230 V AC	- 230 V
	50/60 Hz	- Halog
Busline max consumption	2.3 mA	suitak
Consumption without load	1 W	- Halog
Power dissipation	8.9 W	- Dimm
Width	10 modules	suitat
Operating temperature	-5°C to +45°C	- Dimm
Connections	0.75 to 2.5 mm <sup>2</sup>	suital

V incandescent and halogen lamps 600W

- gen ELV (12 or 24V) via ferromagnetic transformer ble for dimming 600VA.
- ogen ELV (12 or 24V) via electronic transformer able for dimming 600W
- mable CFL lamp (CFLi) with integrated ballast ıble for dimming 120W
- mable LED lamp(LEDi) with integrated ballast ble for dimming 120W

PU Design Order no light grey TYA664BN 1

### 1 - 10 V / DALI interfaces



#### 3-channel 1 - 10 V dimmer

Supply voltage	30 V DC 230 V AC 50/60 Hz
Busline max consumption	2.3 mA
Consumption without load	3 W
Power dissipation	9 W
Control current per channel	50 mA max
Switching current	16A
230 V incandescent and halogen lamps	2300 W
Halogen ELV (12 or 24V) via ferromagnetic transformer/ electronic transformer	1500 VA / 1500 W
Electronic Ballast 1-10V	1000 W
Dimmable Electronic Ballast	50 mA max
Light Dimmer	30 max
Width	4 modules
Operating temperature	0°C to +45°C
Connections	1 to 6 mm <sup>2</sup> (screw terminal)
Design	

- 3 dimming channels controlled by bus KNX

- Control lighting circuits via a 1/10V connection, acting upon remote control dimmers or electronic ballasts
- Min/Max level local setting
- State of channel displayed on product
- Manual control of channels available locally on the product for Wiring, testing and start-up
- After power on, a 20-sec delay is required for the dimmer switch to perform the first control operation
- With potential-free NO contacts
- Basic brightness programmable
- Behavior in the event of bus voltage failure
- With programming button and red programming LED
- Bus connection via connecting terminal
- With screw terminals

Order no.

**TX211A** 



### **KNX DALI-Gateway Tunable White**

light grey

Operating voltage	110 240 V AC
Powered via bus	21 32 V DC
Frequency	50/60 Hz
DALI power	16 V DC
Operating temperature	5 45 ° C
Width of rail mounted device RMD	4

- 2-digit red LED display to the group display for manual operation

PU

- Max. 64 DALI devices max. 32 groups and max. 16 scenes
- as DALI master and power supply for DALI devices
- for switching and controlling of the ECG with DALI
- 4 manual operation buttons for on / off (raise / lower)
- with programming button and red programming LED
- Manual operation also possible without bus eg.. at construction site
- with integrated bus coupler
- Bus connection via connecting terminal
- Preparation of 16 effects with up to 16 steps for dynamic lighting control
- Integration of the device in the DALI emergency lighting systems according to IEC 62386-101 with settings and monitoring of the emergency operation
- DALI defective device replacement possible without using ETS
- Groups 1-16 can have up to 64 devices, groups 17-32 can have up to 2 devices.

Design	Order no.	PU
KNX DALI Gateway REG	TYA670W	1

# KNX inputs, outputs and system components Din rail dim actuators



#### **KNX DALI-Gateway Tunable White**

Status LED integrated into the manual control button

- with illuminated Programming button

Width of rail mounted device (RMD)

- Manual operation also possible without bus eg. . at construction site

- Manual operation can be activated via switch, thereby disabling the KNX function
- Manual operation per channel via button with integrated status LEDs, thereby blocking the KNX function
- Load control via DALI bus in the transmit mode
- Automatic load detection
- with integrated bus coupler
- Bus connection via connecting terminal
- Selector switch for manual / bus operation and load adjustment
- Cable entries beveled
- Quick Connect plug-in terminals
- large marking area
- connect an additional DALI power supply

Design	Order no.	PU
DALI actuator 4-fold KNX easy, broadcast, RGB (T) W	TXA664D	1

12-24 V DC

KNX wire 0.75 to 1.5 mm<sup>2</sup>

#### 3-channel LED controller



#### 3-channel LED controller - voltage controlled

Supply voltage

Connections

Maximum charge2.2 A / channelMax power12V DC 80 W<br/>24V DC 155 WControl modedirect voltageNumber of channel1-3Control signalKNXConsumption on the KNX busMax. 12 mAOperating temperature-5°C to +45°C

(screw-on terminal block)
Output signal PWM / 600Hz
Max. cable length 10 m
Protection degree IP20

The TYB673A 3-channel LED controller can be used to vary the luminosity of a voltage controlled LED module.

This product can be used more particularly to control a coloured lighting system, create lighting effects or launch a sequence of pre-programmed colours.

- 3 variation channels controlled by the KNX bus
- 60 scenes called up by the KNX bus
- 4 different colour sequences including up to 12 colours per sequence.
- Short circuit protection
- Overheating protection
- Electrical surge protection
- Polarity reversal protection

Design	Order no.	Pι
black	TYB673A	1



### 3-channel LED controller - current controlled

Supply voltage 24 V DC Output current 350/500/700 mA Control mode direct current 22V DC Max output voltage Number of channel 1-3 Control signal KNX Consumption on the KNX bus Max. 12 mA Operating temperature -5°C to +45°C Connections KNX wire 0.75 to 1.5 mm<sup>2</sup> (screw-on terminal block)

Output signal PWM / 600Hz
Max. cable length 10 m
Protection degree IP20

vary the luminosity of a current controlled LED module. This product can be used more particularly to control a coloured lighting system, create lighting effects or launch a sequence of pre-programmed colours.

The TYB673B 3-channel LED controller can be used to

- 3 variation channels controlled by the KNX bus
- 60 scenes called up by the KNX bus
- 4 different colour sequences including up to 12 colours per sequence.
- Short circuit protection
- Overheating protection
- Electrical surge protection
- Polarity reversal protection

 Suitable for
 Order no.
 Page

 Power supply 24 V DC 1A
 TGA200
 138

Design	Order no.	PU
black	TYB673B	1

1

### Din rail blind actuators



### Din rail blind actuators

- Outputs can be controlled manually from the product
- Output states are displayed on the product
- Delay time between 2 opposite directions 600 ms.
- Application softwares allow each output to be individually configurated for Shutter/Blind applications.
- The Up/Down Function allows moving up or down a shutter, a blind with inclinable slats, an awning, a Venetian blind, etc.
- The Up/Down function also allows opening and closing electric curtains.
- The Slat angle/Stop function allows inclining the slats of a blind or stopping its current movement.
- The Slat angle/Stop function allows modifying the occultation or the direction of the light beams coming from outside.
- The Stop function allows stopping the current shutter movement.
- The Position in % function allows putting a shutter or a blind in a desired position expressed in % of closure.
- The Slat angle function allows inclining the slats of a blind into a desired position expressed in degrees (0° to 180°).
- Wind alarm and rain alarm functions allow putting a shutter or a blind in a configurable predefined status.
- The Priority function allows forcing a shutter or a blind into a predefined position.
- The Jamming function allows locking a shutter or a blind in its current position.
- Each output may be integrated into 32 different scenes.
- The Status indication function allows sending on the bus:
  - Status indication (1 byte): indicates the current operating mode of the output (Alarm, Priority, Jamming, and Normal)
  - Position indication in %: indicates the position of the shutter or blind
  - Slat angle indication in °: indicates the position of the shutter or blind
  - Status indication (1Bit): indicates the last movement, up or down, of the shutter or blind



#### Output device for 4 shutters 230V AC

Supply voltage	30 V DC SELV
Power dissipation	2W
Typical consumption on the KNX bus	5,2 mA
Standby consumption on the KNX bus	4,5 mA
Width	4 modules
Operating temperature	-5°C to +45°C
Connections	0.75 to 2.5 mm <sup>2</sup>
Breaking capacity	μ230 V, 6A AC1
Surge voltage	4kV
Protection degree	IP20

The 4-output drivers TYA624A and TYA624C are actuators that allow interfacing Bus KNX with opening devices. They are part of the tebis Installation System and are designed to control such devices as rolling shutters, blinds with awnings, blinds with slats, etc.

- 4 independent channels controlled by bus KNX.
- Output states are displayed on the product.
- Outputs can be controlled manually from the product.
   Each product feature depends on its configuration and settings.

Design	Order no.	PU
output device for 4 shutters	TYA624A	1
output device for 4 shutters and / or blinds	TYA624C	1





#### Output device for 4 shutters 24V DC

Supply voltage	30 V DC SELV
Power dissipation	2W
Typical consumption on the KNX bus	5,2 mA
Standby consumption on the KNX bus	4,5 mA
Width	4 modules
Operating temperature	-5°C to +45°C
Connections	0.75 to 2.5 mm <sup>2</sup>
Breaking capacity	μ 24V DC 6A DC1
Surge voltage	4kV
Protection degree	IP20

The 4-output drivers TYA624B and TYA624D are actuators that allow interfacing Bus KNX with opening devices. They are part of the tebis Installation System and are designed to control such devices as rolling shutters, blinds with awnings, blinds with slats, etc.

	-	4 inde	pendent	channels	controlled	by	bus	<b>KNX</b>
--	---	--------	---------	----------	------------	----	-----	------------

- output states are displayed on the product.

- outputs can be controlled manually from the product. Each product feature depends on its configuration and settings.

Suitable for	Order no.	Page
Optional		
Power supply 24 V DC 1A	TGA200	138

Design	Order no.	PU
output device for 4 shutters	TYA624B	1
output device for 4 shutters and / or blinds	TYA624D	1



#### Output device for 8 shutters 230V AC

Supply voltage	30 V DC SELV
Power dissipation	2W
Typical consumption on the KNX bus	15.8 mA
Standby consumption on the KNX bus	8.8 mA
Width	6 modules
Operating temperature	-5°C to +45°C
Connections	0.75 to 2.5 mm <sup>2</sup>
Breaking capacity	μ230 Vv 6A AC1
Surge voltage	4kV
Protection degree	IP20

The 8-output drivers TYA628A and TYA628C are actuators that allow interfacing Bus KNX with opening devices. They are part of the tebis Installation System and are designed to control such devices as rolling shutters, blinds with awnings, blinds with slats, etc.

- 8 independent channels controlled by bus KNX.
- product display of outputs status with or without the presence of bus and/or main supply (230V~).
- the outputs may be switched with or without the presence of bus and/or main supply (230V~).

Each product feature depends on its configuration and settings.



30 V DC SELV



#### Output 12-gang shutter/blind 230V AC

Power dissipation	3W
Typical consumption on the KNX bus	7 mA
Standby consumption on the KNX bus	5 mA
Width	10 modules
Operating temperature	-5°C to +45°C
Connections	0.5 to 6 mm <sup>2</sup>
Breaking capacity	μ230 V, 4A AC1
Surge voltage	4kV
Protection degree	IP20

The device is used to control motor-operated building fi things such as shutters and blinds via the KNX bus. The device has 12 outputs from which each output can be activated independently.

- independent outputs, activation via KNX bus
- status display of the outputs on the device
- manual activation of the outputs on the device possible, building site operation
- position can be started directly
- 3 alarms
- scene function
- forced position by higher-level controller
- connection of various external conductors possible
- slat position directly controllable

Design	Order no.	PU
output device for 12 shutters/blinds	TYM632C	1



### **Modular blind actuators**



#### 2 flush mounted output / 1 shutter/blinds 6A twisted pair

Supply voltage KNX 21...32 V DC SELV Typical consumption on the KNX bus 7 mA Standby consumption on the KNX bus 5 mA Dimensions 44 x 43 x 22.5 mm Operating temperature -5°C to +45°C Connections 0.75 to 2.5 mm<sup>2</sup> µ6A AC1 230V~ Breaking capacity 4kVSurge voltage Protection degree IP20

The device receives telegrams from sensors or other controllers via the KNX installation bus and switches electrical loads with its relay contact.

Design	Order no.	PU
flush mounting	TYB602F	1



#### 1 flush mounted output for shutter/blinds / 2 outputs + 2 inputs

Supply voltage KNX 21...32 V DC SELV Typical consumption on the KNX bus 7 mA Standby consumption on the KNX bus 5 mA **Dimensions** 44 x 43 x 22.5 mm Operating temperature -5°C to +45°C 0.75 to 2.5 mm<sup>2</sup> Connections  $\mu 6A~AC1~230V_{\sim}$ Breaking capacity Surge voltage 4kV IP20 Protection degree

The device receives telegrams from sensors or other controllers via the KNX installation bus and switches electrical loads with its relay contact.

Design	Order no.	FU
flush mounting	TYB692F	1



### Output 1-gang 10A, flush mounted

Supply voltage 21...32 V DC SELV Typical consumption on the KNX bus 7 mA Standby consumption on the KNX bus 5 mA Dimensions  $44 \times 43 \times 22.5$  mm Operating temperature  $-5^{\circ}$ C to  $+45^{\circ}$ C

 $\begin{array}{c} \text{Connections} & 0.75 \text{ to } 2.5 \text{ mm}^2 \\ \text{Breaking capacity} & \mu \text{10A AC1 230 V} \sim \end{array}$ 

Surge voltage 4kV Protection degree IP20

The device receives telegrams from sensors or other controllers via the KNX installation bus and switches electrical loads with its relay contact.

- -- Time switching functions.
- -- manual activation of the outputs on the device possible, building site operation.
- -- Status display of the outputs on the device.
- -- Scene function.
- -- Forced position by higher-level controller.

Design	Order no.	PU
light grev	TYB601B	1





#### Universal dim actuator 1-gang flush-mounted

Rated voltage KNX	2132 V DC SELV
Mains frequency	50 / 60 Hz
Rated voltage	AC 230 V ~
Incandescent lamps	50 210 W
HV halogen lamps	50 210 W
Inductive transformers	50 210 VA
Tronic transformers	50 210 W
Operating temperature	-5 °C+45 °C
Dimensions	Ø 53 x 28 mm

- automatic selection of the dimming principle suitable for the load
- protected against no-load, short-circuit and overheating
- feedback of the switching position and the dimming value
- configurable switch-on and dimming behaviour
- Timed dimmer: switch-on delay, switch-off delay, staircase lighting timer
- Light scene operation
- Two binary inputs for potential-free contacts, usable as extension inputs for local operation
- Supply via bus, no additional power supply necessary
- Mains failure longer than approx. 0.7 seconds leads to switch-off of the dimmer actuator.

Design	Order no.	PU
light grey	TYB691F	1

### **Din rail HVAC actuators**



#### Din rail heating actuator 6-gang 230 V

Operating voltage over bus	21 32 V=
Auxiliary voltage	230/240 V~
Frequency	50/60 Hz
Switching current at 250 V~	max. 50 mA
Actuators per channel	max. 4
Operating temperature	-5 +45 °C
Assembling height as from DIN rail	58 mm
Dimensions (W x H x D)	72 x 90 x 65 mm
Width of rail mounted device (RMD)	4 TE

- valve drives for thermoelectric valve drives 230 V, closed in de-energized state
- for individual single room temperature control
- for continuous (PI) or switched (2-point) control
- with programming button and red programming LED
- bus connection via connecting terminal
- with emergency programme, e.g. for sensor or bus failure
- with screw terminals

Suitable for

KNX valve drive 230V	EK723	134
KNX valve drive 24V AC/DC	EK724	134
Order no.		PU

Order no.

Page

light grey TYF656T 1



### Din rail fan coil actuator 2-gang

Design

Operating voltage over bus	21 32 V=
Auxiliary voltage	230 V~
230 V incandescent lamps	2300 W
230 V halogen lamps	2300 W
Conventional transformers	1200 W
Electronic transformers	1500 W
Fluorescent lamps:	
- uncompensated	1000 W
- parallel compensated	1160 W /140 μF
Operating temperature	-5 +45 °C
Assembling height as from DIN rail	63 mm
Dimensions (W x H x D)	72 x 90 x 70 mm
Width	4 modules

Comply with the fan convector manufacturer's instructions.

Optimised for commissioning with ETS3 from visioning with ETS

Optimised for commissioning with ETS3 from version D, patch A.

- for the electric activation of fan convectors
- for converting RTR control variables into valve positions, fan stages
- activation of 1 or 2 fan channels with 6 or 3 fan stages
- for operating modes heating/cooling or heating and cooling
- manual activation of blow fans using push-buttons or the operating panel
- use of free channels to control switching loads
- 4 manual operation buttons for controlling fan stages and bus function on/off
- manual operating also possible without bus e.g. on building site
- with programming button and red programming LED
- with 8 red status LEDs and 3 red LEDs as manual actuation indication
- bus connection via connecting terminal
- with screw terminals

Design	Order no.	PU
light grey	TYF642F	1

### Din rail HVAC actuators





#### Heating actuator 6 channel with controller, 24/230 V, Triac

Powered via bus	21 32 V DC
Frequency	50/60 Hz
Switching voltage	24 230 V
Power consumption (operating)	1 W
Actuators 24 V	per channel max. 2
Actuators for each channel	Max. 4
Operating temperature	-5 45°C
Conductor cross-section (flexible)	0.5 4 mm <sup>2</sup>
Conductor cross-section (fixed)	0.5 4 mm <sup>2</sup>
Width of rail mounted device (RMD)	4

- 12 with integrated room temperature controllers
- Type of actuator (normally closed / open) adjustable
- for actuator 230 V or actuator 24 V
- with valve protection function
- Locking function per actuator output via manual operation buttons or bus activatable
- different setpoints set to forced control or emergency operation in case of bus failure for summer and winter time
- 6 manual operation buttons for on / off each actuator channel
- short circuit protection and overload protection (via LED)
- 6 red status LEDs for indicating the input status
- with programming button and red programming LED
- with integrated bus coupler
- Bus connection via connecting terminal
- with screw
- All actuator channels must be of the same operating voltage

Design	Order no.	PU
Heating actuator KNX 6 channel, with Controller, 24/230V	TYM646R	1



#### Heating actuator 6-gang 24/230 V, triac

,		
Powered via bus	21 32 V DC	Type
frequency	50/60 Hz	- for a
switching voltage	24 230 V	- with
Power consumption (operating)	1 W	- Loc
Actuators 24 V	per channel max2	opera
Actuators for each channel operating	Max. 4	- diffe
temperature	-545°C	wint
Conductor cross-section (flexible)	0.5 4 mm <sup>2</sup>	- 6 m
Conductor cross-section (fixed)	0.5 4 mm <sup>2</sup>	cha
Width of rail mounted device (RMD)	4	- sho (via

Type of actuator (normally closed / open) adjustable

- for actuator 230 V or actuator 24 V
- with valve protection function
- Locking function per actuator output via manual operation buttons or bus activatable
- different setpoints set to forced control or emergency operation in case of bus failure for summer and winter time
- 6 manual operation buttons for on / off each actuator channel
- short circuit protection and overload protection (via LED)
- 6 red status LEDs for indicating the input status
- with programming button and red programming LED
- with integrated bus coupler
- Bus connection via connecting terminal
- with screw
- All actuator channels must be of the same operating voltage

Design	Order no.	PU
Heating actuator 6-gang KNX, 24 / 230V	TYM646T	1



#### Valve drives



#### KNX valve drive

Operating voltage over bus Operating temperature Pre-assembled cables

Dimensions (L x W x H)

21 ... 32 V= - suitable for standard heater valve tappets  $0^{\circ}$ C to  $+50^{\circ}$ C - with programming button and red programming LED

Functions summer operation and forced mode

- with 2 independent binary inputs

- with 5 LEDs for display of valve stroke

- with integrated bus coupling unit

bus connection via connecting terminal

 Design
 Order no.
 PU

 white
 TX501
 1

≈ 1 m

65 x 50 x 82 mm

82 x 50 x 65 mm



#### KNX valve drive

**Dimensions** 

Power supply bus KNX 30V DC TBTS

 $\begin{array}{lll} \mbox{Power consumption} & < 10 \mbox{ mA} \\ \mbox{Run time} & < 20 \mbox{ s/mm} \\ \mbox{Set force} & > 120 \mbox{N} \\ \mbox{Maximal stroke} & 6 \mbox{ min} \\ \mbox{Target value display} & 5 \mbox{ LEDs} \\ \mbox{Operating temperature} & 0 \mbox{°C to } + 50 \mbox{°C} \\ \end{array}$ 

- Automatic regulating apparatus and temperature collection apparatus.

- Work mode: Comfort, Standby, Night time, Frost.

- Oriented start up

- Forced service

- Summer operation

Design	Order no.	PU
white	TX502	1



#### Electrothermal valve drive

Power supply 230V - 50/80 Hz (EK723) 24 V AC/DC (EK724)

Opening time from 0 to 100% 3.5 min (EK723) 4.5 min (EK724)

Adjustment force 125 Nm

Power 2.5 W (EK723) 3 W (EK724)

Protection degree IP54

Operating temperature 0°C to +50°C Dimensions 64 x 42 x 50 mm

Design	Order no.	PU
230 V	EK723	1
24 V AC/DC	EK724	1



#### Valve adapter set

Design Order no. PU



#### Surface mounted housing for heating actuator

Mounting	Surface / Construction
Protection	IP31
Height	157 mm
Width	104 mm
Depth	89 mm
Colour	White

Material Plastic Operating temperature - 5 ... 45 ° C

 Surface-mounted housing for heating actuator in heating circuit, IP31

Design Order no. PU
Housing for heating actuator, IP31 TGC600 1

Analogue actuators and actuators, flush/surface-mounted



### **Analogue actuators**



#### Din rail analogue actuator 4-gang

Operating voltage over bus	21 32 V=
Auxiliary voltage	24 V~
Frequency	50/60 Hz
Output load voltage	> 1 kΩ
Voltage, outputs	0 1; 0 10 V
Output current per channel	max. 20 mA
Current consumption	max. 170 mA
Outputs current	0 20, 4 20 mA
Output load current	< 500 Ω
Forced controls (1-bit objects)	per channel 2
Operating temperature	-5 +45 °C
Assembling height as from DIN rail	63 mm
Dimensions (W x H x D)	72 x 90 x 70 mm
Width of rail mounted device (RMD)	4 TE

The analogue actuator receives KNX telegrams and converts them into current and/or voltage signals, e.g. for heating, air conditioning and ventilation systems.

Output signals according to DIN IEC 381

Design	Order no.	PU
light grey	TYF684	1



#### 4-channel analogue actuator module

Operating voltage over bus	21 32 V=
Auxiliary voltage	24 V~
Frequency	50/60 Hz
Output load voltage	> 1 kΩ
Voltage, outputs	0 1; 0 10 V
Output current per channel	max. 20 mA
Current consumption	max. 170 mA
Outputs current	0 20, 4 20 mA
Output load current	< 500 Ω
Forced controls (1-bit objects)	per channel 2
Operating temperature	-5 +45 °C
Assembling height as from DIN rail	63 mm
Dimensions (W x H x D)	72 x 90 x 70 mm
Width of rail mounted device (RMD)	4 TE

- with 4 yellow output status LEDs

- with green/red status LED (operation/fault)

- with green/red status LED (operation/fault)

- channels can be adjusted independently

- bus connection via connecting terminal

with 4 independant analogue outputscyclic supervision of the outputs

- expandable with 4gang analogue actuator module

- initial status via status- and/or switch object evaluable

- with system interface for analogue actuator module

Order no.

135

PU

ST312 TYF684E

- with red programming LED

- with programming button

with screw terminals

rail din power supply 24 V AC

4-channel analogue actuator module

Suitable for

- as extension for analogue actuator 4gang
- with 4 independant analogue outputs
- cyclic supervision of the outputs
- with screw terminals

Order no.

TYF684E

with system plug for connection to the analogue actuator system interface

Suitable for	Order no.	Page
Din rail analogue actuator 4-gang	TYF684	135

### Actuators, flush/surface-mounted

Design light grey



#### Heating actuator 230 V flush-mounted

Output signals according to DIN IEC 381

ricating actuator 200 v nasn	mounted
Operating voltage	21 32 V=
Switching current for electronic outputs	max. 25 mA
Actuators per channel	max. 2
Operating temperature	-5 +45 °C
Load cable length	$\approx$ 20 cm with 2 x 1,5 mm <sup>2</sup>
Cable length, bus + inputs (extendable to max. 5 m)	≈ 33 cm
Dimensions (Ø x H)	53 x 28 mm
Ontimized for commissioning	with ETC2 from vorsion D

Optimised for commissioning with ETS3 from version D, patch A.

- binary input functions: Switching, dimming, shutter control and value transmitter
- for individual single room temperature control
- for continuous (PI) or switched (2-point) control
- with programming button and red programming LED
- 1 electronic output (triac) for connection of 230V
- thermoelectric actuator drives
- with 3 independent binary inputs for potential-free contacts
- with emergency programme, e.g. for sensor or bus failure
- installation in flush-mounted or splash-protected junction box
- pre-assembled, with cables

Design	Order no.	PU
light grey	TYB641A	1

## KNX inputs, outputs and system components Room actuator





#### Window interface / flush-mounted

Rated voltage KNX	DC 21 V 32 V SELV
Switching current	5 25 mA
Motors 230 V	600 VA
Rated voltage	230 / 240 V ~
Number of drives per output	max. 2
Operating temperature	-5 to +45°C

- control of Venetian blinds, awnings and similar blinds - control of electrothermal actuators

- three binary inputs for potential-free contacts, usable as extension inputs for local operation

- supply via bus, no additional power supply necessary

Design	Order no.	PU
Window interface / flush-mounted	TYB692C	1

Ø 53 × 28 mm



#### Heating actuator 6 channels

**Dimensions** 

Supply voltage	230V AC
Bus KNX	30V DC TBTS
Max. power uptake	50W
Bus power consumption	< 10mA
Standard fuse	T 2A
Max. number of actuators	13
Operating temperature	-5 to +40 °C
Dimensions (W x H x D)	302 x 75 x 70 mm
Frequency	50/60 Hz

- for valve drives 24 V, closed in de-energized state

- with on red heat request LED per channel

- with green operation LED and red programming LED

- with red fuse LED - with integral transformer

- bus connection via connecting terminal

- with emergency programme, e.g. for sensor or bus

- short-circuit and overload proof (fine-wire fuse) - with plug-in terminals

- for individual single room temperature control

- for continuous (PI) or switched (2-point) control

Design	Order no.	PU
grey, 6-gang Triac	TX206H	1

### **Room actuator**



#### 4-gang room actuator

Connections

KNX supply	2132 V DC
KNX power consumption	max. 150 mW
Rated voltage	230/240 V
Mains frequency	50/60 Hz
Heat dissipation	max. 6 W
Width	4 modules
Operating temperature	-5°C to +45°C
Heat dissipation Width	max. 6 W 4 modules

0.5 to 4 mm² (single-wire) 0.35 to 4 mm² (standed wire without ferrule) 0.14 to 2.5 mm<sup>2</sup> (standed wire with ferrule)

- switching of electrical consumers AC 230 V with potential-free contacts
- switching of electrically operated blinds, shutters, awnings and similar curtains
- heating outputs: electronic outputs for switching electro-thermal adjustment drives
- installation on DIN rails in small distribution boards

Design	Order no.	PU
light grey	TYF646M	1

### Power supplies



Order no.

8044 01 00

8066 01 00

TG053A

- Power supply has 2 outputs KNX 30 V DC 320 mA

Page

114 33

34

### **Power supplies**

- With integral choke
- Short-circuit and overload protection
- The "OK" indicator lights up in normal working mode
- The "I>Imax" indicator lights up, eliminate the origin of the fault (short circuit or overload)
- Protected earth conductor must be connected
- quickconnect terminal



#### Power supply 320 mA RMD

Supply voltage 230V AC 50/60 Hz
Output voltage 30V DC
Output current max. 320 mA
Absorbed power 15 VA
Width 4 modules
Operating temperature -5 ... +45°C
Connections quickconnect 0.75 to 2.5 mm²

Design	Order no.	PU
light grey	TXA111	1



#### Power supply 640 mA RMD

Supply voltage 230V AC 50/60 Hz
Output voltage 30V DC
Output current max. 640 mA
Absorbed power 24 VA
Width 4 modules
Operating temperature -5 ... +45°C
Connections quickconnect 0.75 to 2.5 mm²

Design	Order no.	PU
light grey	TXA112	1



#### Power supply 1x30V, 320 mA + 1x24V, 640 mA RMD

Supply voltage 230V AC 50/60 Hz Suitable for KNX weather station 30V DC and 24 V DC Output voltage KNX thermostat Output current max. 320 mA and 640 mA KNX room controller Router IP/KNX 4.4 W Absorbed power Width 4 modules Operating temperature -5 ... +45°C quickconnect Connections 0.75 to 2.5 mm<sup>2</sup>

Design	Order no.	PU
light grev	TXA114	1



#### Power supply 2x30V, 320 mA RMD

Supply voltage 230V AC 50/60 Hz
Output voltage 30V DC
Output current max. 2 x 30 V DC 320 mA
Absorbed power 3.5 W
Width 4 modules
Operating temperature -5 ... +45°C
Connections quickconnect 0.75 to 2.5 mm²

Design	Order no.	PU
light grey	TXA116	1





### Electrical power supply 24 V DC RMD

Operating voltage	230 V~
Frequency	50/60 Hz
Output voltage	24 V=
Output current	max. 1 A
Current consumption	< 150 mA
Power consumption	36 W
Operating temperature	+ 0 + 45 °C
Width of rail mounted device (RMD)	4 modules

<ul> <li>with guickconnect plug-in termina</li> </ul>	lua-in term	plα	uickconnect	au	with	_
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Suitable for	Order no.	Page
Glass sensors comfort		88
Touch sensors with thermostat		103
Glass sensors with thermostat		90
Touch panel	WDI	148
domovea server incl. software	TJA450	146
KNX weather station	TG053A	114
output device for 4 shutters and / or blinds	TYA624D	131
Output device for 4 shutters a24V DC	TYA624B	131
3-channel LED controller - voltage controlled	TYB673A	129
3-channel LED controller - current controlled	TYB673B	129
KNX thermostat	8044 01 00	33
KNX room controller	8066 01 00	34
Router IP/KNX	TH210	139
IP/KNX interface	TYF120	139
Din rail analogue actuator 4gang	TYF784	115

Design	Order no.	PU
light grev matt	TGA200	1



### Safety transformer

Design light grey

Supply voltage	230V AC 50/60 Hz
lominal power	25 VA
Salvanic insulation	4 kV
Vidth	4 modules
Max. operating temperature	+35°C

These transformers are designed to ensure personal safety, their primary winding are electrically separated from their secondary windings and they are intended to feed safety extra low voltage circuits U  $\leq$  50V. A thermal overload, in the primary windings, ensures that if a short circuit or an overload occurs in the output it will not damage the device.

ST312		1
Order no.		PU
IP/KNA Interface	117120	139
IP/KNX interface	TYF120	139
Router IP/KNX	TH210	139
KNX weather station	TG053A	114
Analogue input 4gang RMD	TYF784	115
Suitable for	Order no.	Page

## Couplers



### Couplers



#### Line coupler

Operating voltage 21 - 32 V DC Width 2 modules Operating temperature  $-5 \dots +45 ^{\circ}\text{C}$ 

- can be used as line/area coupler or line amplifier.

- with programming button.

- with green operation LED, red programming LED and red diagnosis LED.

 with 2 yellow data traffic LEDs for higher and lower ranking line.

- allows extension of a wire line and repeats the messages.

- ensures a galvanic insulation between lines.

necessary in case of systems with more than 64 wire products.

- line connection via connecting terminal

Design	Order no.	PU
light grey	TYF130	1



#### Router IP/KNX

Supply voltage External SELV power Supply:

power usage from the bus linepower usage from the

auxiliary power supply Operating temperature Width KNX bus (21 -30V DC) 24V AC/DC (12-30V AC/DC) 1.6 GHz

10mA max 30V DC

800mW max (25mA - 24V DC) -5°C to 45°C 2 modules  quick communication of lines/areas and systems via data networks (Internet protocols).

- needed for operation a power supply of 24 V DC.

- as interface to PCs and data processing devices.

- for reporting bus voltage failure via data networks.

- internet protocols supported: ARP, ICMP, IGMP, UDP/IP, and DHCP.

IP according to Konnex specifications:
 Core, Routing, Tunneling, Device Management.

- can be used as line/area coupler.

- with RJ45 connection for Ethernet/IP networks.

- with programming button and red programming LED.

- with green operation LED and yellow data traffic LED.

with green, yellow and red LEDs for indicating the IP communication.

- line connection via connecting terminal.

- operating voltage connection via connecting terminal.

Design	Order no.	PU
Router IP/KNX	TH210	1



#### IP/KNX interface

Supply voltage External SELV power KNX bus (21 -30V DC) 12 - 24V AC; 12 - 30V DC or PoE: Power over Ethernet DC 48V (acc. to IEEE 802.3af)

Operating temperature +5°C to 45°C Width 2 modules

 LED for operation (green) and data transmission on bus line (yellow).

- green/yellow/red LED for IP communication status

 the connection to the KNX bus is established using a standard bus connection terminal.

- ethernet / IP network: RJ45

Interface IP/KNX TYF120 is a modular device which can be installed in consumer units. It uses the KNXnet/IP standard and acts as an interface between KNX lines and data networks using Internet Protocol (IP).

Design	Order no.	PU
IP/KNX interface	TYF120	1



### **Data interfaces**



#### Modular USB interface

Operating voltage Data transfer rate Operating temperature Width

21 - 32 V DC max. 9.6 kBaud -25 to +45°C 2 modules

- for addressing, programming and diagnosis of KNX components.
- with B-type USB socket for data traffic (voltage supply via PC)
- compatible with USB 1.1/2.0 transmission protocols.
- with flash-controller technology

Design	Order no.	PU
light grey	TH101	1



#### KNX data interface USB flush-mounted

Operating voltage over bus Data transmission rate Operating temperature USB cable length

max. 5 m

21 ... 32 V=

max. 9.6 kBd

-5 ... +45 °C

For connection of a PC for addressing, programming and diagnosis of KNX components and for visualisation.

- programmable from ETS3, V1.0
- for addressing, programming and diagnosis of KNX components
- with B-type USB socket for data traffic (voltage supply via PC)
- compatible with USB 1.1/2.0 transmission protocols

- system requirements: Windows 2000 or later
- without spreader claws
- with flash-controller technology

PU Design Order no. 7504 00 04 black 1



#### Centre plate with TAE cut-out

	Suitable for KNX data interface USB flush-mounted	<b>Order no.</b> 7504 00 04	<b>Page</b> 140
Design	Order no.		PU
Berker S.1/B.3/B.7			
white glossy	1033 89 12		10
polar white glossy	1033 89 19		10
polar white matt, with 2 knock out openings	1033 19 09		10
anthracite matt, with 2 knock out openings	1033 16 06		10
aluminium matt, lacquered, with 2 knock out openings	1033 14 04		10
Berker Q.1/Q.3			
polar white velvety	1033 60 89		10
anthracite velvety, lacquered	1033 60 86		10
aluminium velvety, lacquered	1033 60 84		10







Berker K.1/K.5		
polar white glossy	1035 70 09	10
anthracite matt, lacquered	1035 70 06	10
Aluminium, aluminium anodised	1035 70 03	10
Stainless steel, metal matt finish	1035 70 04	10
Berker R.1/R.3		
polar white glossy	1038 20 89	10
black glossy	1038 20 45	10

Data interfaces



10

10

10



### Centre plate with TAE cut-out, push-out

Only to be associated with appropriated intermediate rings.

- breakable cut-out
- possibility to insert a label with the appropriate intermediate ring

	Suitable for KNX data interface USB flush-mounted Intermediate ring for central plate	<b>Order no.</b> 7504 00 04 140	0
Design	Order no.	PL	J
white glossy	1458 02	10	)
polar white glossy	1458 09	10	)
brown glossy	1458 01	10	)



#### Centre plate with TDO cut-out

	Suitable for KNX data interface USB flush-mounted	<b>Order no.</b> 7504 00 04	<b>Page</b> 140
Design	Order no.		PU
Berker S.1/B.3/B.7			
white glossy	68 1033 89 82		10
polar white glossy	68 1033 89 89		10
polar white matt	68 1033 19 09		10
anthracite matt	68 1033 16 06		10
aluminium matt, lacquered	68 1033 14 04		10
Berker Q.1/Q.3			
polar white velvety	68 1033 60 89		10
anthracite velvety, lacquered	68 1033 60 86		10
aluminium velvety, lacquered	68 1033 60 84		10



### Berker K.1/K.5

Derker N. I/N.3		
polar white glossy	68 1034 70 09	10
anthracite matt, lacquered	68 1034 70 06	10
aluminium, aluminium anodised	68 1034 70 03	10
stainless steel, metal matt finish	68 1034 70 04	10
Berker R.1/R.3		
polar white glossy	68 1033 20 89	10
black glossy	68 1033 20 45	10



### Intermediate rings for central plate

anthracite matt, lacquered

aluminium, aluminium anodised stainless steel, metal matt finish

Suitable for Centre plate with TAE cut-out, push-out	<b>Order no.</b> 1458 0.	Page 141
Order no.		PU
1109 89 82		10
1109 89 89		10
1109 19 09		10
1109 16 06		10
1109 14 04		10
1109 60 82		10
1109 60 86		10
1109 60 84		10
1108 70 09		10
	Centre plate with TAE cut-out, push-out Order no.  1109 89 82 1109 89 89 1109 19 09 1109 16 06 1109 14 04  1109 60 82 1109 60 86 1109 60 84	Centre plate with TAE cut-out, push-out 1458 0.  Order no.  1109 89 82  1109 89 89  1109 19 09  1109 16 06  1109 14 04  1109 60 82  1109 60 86  1109 60 84

1108 70 06 1108 70 03

1108 70 04







### Accessories



#### **Connecting terminal**

Operating temperature -5 ... +45 °C - 2pole

- for the bus connection of the units Conductor Ø 0.6 ... 0.8 mm - can be used as branch terminal

Number of conductors 2 x 4 - with plug-in terminals

Dimensions (L x W x H) 10.2 x 11.5 x 10 mm

Design	Order no.	PU
red/black	TG008	50
yellow/white	TG025	50



#### KNX bus cable

Bus cable (ST) Y 2 x 2 x 0.8mm (4KV test voltage)

Design	Order no.	PU
length 100 m	TG018	1
length 500 m	TG019	1
length 100 m without halogen	TG060	1
length 500 m without halogen	TG061	1



#### quickconnect jumpers for KNX

quickconnect jumpers for the tebis KNX system for looping

Design	Order no.	PU
black	TG200A	50
grey	TG200B	50
brown	TG200C	50



### KNX surge protection device

Nominal voltage 24 V Nominal current (max.) 3 A Nominal discharge current 5 kA Limiting discharge 8 kA Protection level at 100 V / S ≤ 350 V Protection level at 1 kV / S  $\leq 500~V$ Response time  $\leq$  100 ms Insulation resistance  $> 10,000 \text{ M}\Omega$ Capacity 1 pF Operating temperature -25 to +80°C Bus connection line Ø 0.8 mm, length 200 m Ground connection conductor 0.75 mm2,

length 200 m

- The application is recommended if:
  - The bus line is laid parallel to high-performance power lines,
  - The bus line is routed in parallel to metal installation parts that can flow through the lightning currents,
  - The bus line is used building border.

Design	Order no.	PU
blue	TG029	1

### Accessories



#### Kit interface USB/KNX

Operating voltage
Data transfer rate
Operating temperature
USB cable length
Width

21 - 32 V DC max. 9.6 kBaud -25 to +45°C max. 3 m

2 modules

- for addressing, programming and diagnosis of KNX components.
- with B-type USB socket for data traffic (voltage supply via PC)
- compatible with USB 1.1/2.0 transmission protocols.
- with flash-controller technology
- for connection of a PC for addressing, programming and diagnosis of instabus components to Modular USB interface

Design	Order no.	PU
light grey	TH102	1



### **USB** cable

Cable length

max. 3 m

- for connection of a PC for addressing, programming and diagnosis of instabus components to Modular USB interface

 Design
 Order no.
 PU

 light grey
 TH103
 1

# KNX remote control and visualisation

Intuitive control: one interface to manage your home. domovea is the dashboard for your home, providing you with intuitive control of the different devices in your home. Lights, shutters, heating, air conditioning or alarm system; for each room or the full floor... It's so simple to use: everything can be controlled from one single point. You can enjoy domovea from your home computer, laptop, smartphone, tablet or dedicated touch panel, all with the same look & feel.





07	Page
domovea	148
Touch panels	150
Operating panels	155



# domovea



#### domovea server incl. software

Operating voltage over bus	21 32 V=
Auxiliary voltage	24 V=
Current consumption (operation)	≈ 150 mA
Power consumption (operation)	≈ 1.5 W
RAM	128 MB
Graphics memory	≈ 20 MB
Processor	400 MHz
Operating temperature	+0 +45 °C
Width of rail mounted device (RMD)	6 TE

Central operating and visualisation unit for KNX installations via client software.

Knowledge of the relevant network technology is required for installation.

System requirements: Windows XP, VISTA and Windows 7 (32 or 64-bit).

- user interface can be configured individually for each room with special background images
- creation of max. 50 sequences from different actions
- for control and visualisation of e.g.shutters, lights, heating, ventilation, alarm system, sensors
- with status LEDs for LAN status, operational stand-by and connection status to web portal
- KNX server to supply up to 30 visualisation clients simultaneously with KNX data
- creation of light scenes
- creation of measured value archives and energy consumption visualisation with KNX energy meters
- configuration tool for installation of IP settings and parameterisations
- with configuration and client software on USB stick
- managing up to 30 users with different access rights
- software update via USB interface on the device
- integration of max. 10 network cameras
- RJ45 Port for LAN connection
- bus connection via connecting terminal
- with plug-in terminals

Suitable for	Order no.	Page
Touch panel	WDI	148
Optional		
Electrical power supply 24 V DC RMD	TGA200	138

 Design
 Order no.
 PU

 light grey matt
 TJA450
 1



# domovea software server with USB/KNX interface

Operating voltage interface via bus
RAM
128 MB
Graphics resolution
Free hard disk space
21 ... 32 V=
nin. 1024 x 768 px
min. 500 MB

Central operating and visualisation software for operation via client software.

Knowledge of the relevant network technology is required for installation.

System requirements: Windows XP, VISTA and Windows 7 (32 or 64-bit).

- user interface can be configured individually for each room with special background images
- creation of max. 50 sequences from different actions
- for control and visualisation of e.g.shutters, lights, heating, ventilation, alarm system, sensors
- KNX server to supply up to 30 visualisation clients simultaneously with KNX data
- creation of light scenes
- creation of measured value archives and energy consumption visualisation with KNX energy meters
- configuration tool for installation of IP settings and parameterisations
- with configuration and client software on USB stick
- managing up to 30 users with different access rights
- integration of max. 10 network cameras
- processor min. 600 MHz
- with USB interface for connecting to the bus
- with connecting cable

Design Order no. PU domovea server software with USB adapter TJ701A 1





# Power supply 24 V DC 1A

Design

Design

light grey matt

Operating voltage	230 V~	- with quickconnect plug-in termination	nals
Frequency	50/60 Hz	Suitable for	Orde
Output voltage	24 V=	Glass sensors comfort	
Output current	max. 1 A	Touch sensors with thermostat Glass sensors with thermostat	
Current consumption	< 150 mA	Touch panel	WDI.
Power consumption	36 W	domovea server incl. software KNX weather station	TJA4
Operating temperature	+0 +45 °C	output device for 4 shutters and / or blinds	TYA
Width of rail mounted device (RMD)	4 TE	Output device for 4 shutters a24V DC 3-channel LED controller - voltage controlled	TYA6
		3-channel LED controller - current controlled	TYB

Order no.	PU

Din rail analogue actuator 4gang



#### domovea basic with easy and IoT

Powered via bus via bus	21-32 V DC
Auxiliary voltage	24 V DC
Ethernet data rate	Max. 2 x 100/1000 Mbit / s
Operating temperature	- 5 45 ° C
Conductor cross-section (flex	xible) 0.75 2.5 mm <sup>2</sup>
Conductor cross-section (fixe	ed) 0.75 2.5 mm <sup>2</sup>

- Width of rail mounted device (RMD) - with integrated basic domovea
- Integration of IoT applications (Amazon Echo, Sonos, Phillips Hue, Netatmo weather station Google Home, IFTTT) possible
  - Selector for online / offline operation
  - Integration of two IP cameras

domovea basic with easy and IoT

Powered via bus via bus

with green and red status LEDs for LAN status, operational readiness, KNX status and gateway connection
 Voltage supply via PoE or 24 VDC

Order no.

WDI...

TJA450

TG053A

TYA624D

TYA624B

TYB673A

TYR673B

8044 01 00

8066 01 00

TH210

TYF120

TYF784

Page

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90

148

146

114

131

131

129

129

33

34

139

139

115

PU

- 2 RJ45 ports for LAN connection with 2 USB sockets, type B, USB 2.0 compliant
- With label area

Order no.

**TJA670** 

6 Modules

21-32 V DC

KNX room controller

Router IP/KNX

**TGA200** 

IP/KNX interface

- with integrated bus coupler
- Bus connection via connecting terminal Quick Connect plug-in terminals
- Knowledge of network technology is required for com-
- System Requirements: Windows 7, Android 6, ios 11.



# domovea expert with easy and IoT

Auxiliary voltage	24 V DC
Ethernet data rate	Max. 2 x 100/1000 Mbit / s
Operating temperature	- 5 45 ° C
Conductor cross-section (flex	(ible) 0.75 2.5 mm <sup>2</sup>
Conductor cross-section (fixe	ed) 0.75 2.5 mm²
Width of rail mounted device	(RMD) 6 Modules

- with integrated basic domovea
- Integration of IoT applications (Amazon Echo, Sonos, Phillips Hue, Netatmo weather station Google Home, IFTTT) possible
  - Selector for online / offline operation
  - Integration of 50 IP cameras

- Advanced sequences
- Local and remote access
- Thermostat regulation
- with green and red status LEDs for LAN status, opera-- Voltage supply via PoE or 24 VDC
  - 2 RJ45 ports for LAN connection
  - with 2 USB sockets, type B, USB 2.0 compliant

- With label area
- with integrated bus coupler
- Bus connection via connecting terminal
- Quick Connect plug-in terminals
- Knowledge of network technology is required for commissioning
- System Requirements: Windows 7, Android 6, ios 11.

Design	Order no.	PU
domovea expert with easy and IoT	TJA470	1



# **Touch panels**



#### Touch panel 7" Android

Power over Ethernet (PoE) 18 ... 48 V= Auxiliary voltage 18 ... 48 V= Power consumption < 10 WTFT screen size Light intensity 300 cd/m<sup>2</sup> Transmission rate Ethernet max. 10/100 Mbit/s Processor 1 GHz **RAM** 512 MB Operating temperature + 5 ... + 45 °C Dimensions (W x H x D) 189.7 x 125.7 x 48.3 mm Assembling height 12 mm

PoE power supply according to IEEE 802.3af Class 3 possible without audio applications.

- for display of preconfigured functions, measured values and data
- suitable for vertical and horizontal domovea visualisation
- depending on the software visualisation one and two surface operation, stepless configuration based on sliding and page scrolling by swiping are supported
- multi-touch function for the connection of multiple actions, e.g. to activate a function with simultaneous setting of a function value
- display illumination can be switched on automatically using brightness sensor
- connection to KNX system possible via a local server e.g. the domovea server
- external applications (Apps) available in preinstalled Android launcher
- integration of door communication functions in the domovea client or Elcom VideoFON client
- silent, long-lasting convection cooling without fan
- RJ45 Port for LAN connection
- card slot with 8 GB SDHC card
- microphone and loudspeaker with echo suppression
- with USB/Mini USB type A adapter cable
- with RJ45 connector kit from connector and patch cable
- mini-USB 2.0 jack e.g. for external storage media or updates on the upper display edge is accessible without dismantling
- 2 USB 2.0 connections on the rear
- for flush mounting and hollow-wall mounting
- for vertical and horizontal mounting

Suitable for Housing flush-mounted for WDI07x Housing flush-mounted for WDI07x, flush-to-wall	Order no. WDW070 WDW071	<b>Page</b> 151 152
optional		
Electrical power supply 24 V DC	TGA200	138
domovea Server incl. software	TJA450	146
domovea system package	TJA451	147

 Design
 Order no.
 PU

 anthracite, 7"
 WDI070
 1

150

# KNX remote control and visualisation Touch panels





# **Touch panel 10" Android** Power over Ethernet (PoE)

Dimensions (W x H x D)

Assembling height

Auxiliary voltage 18 ... 48 V= Power consumption < 10 W TFT screen size 10" Light intensity 300 cd/m<sup>2</sup> Transmission rate Ethernet max. 10/100 Mbit/s Processor 1 GHz **RAM** 512 MB + 5 ... + 45 °C Operating temperature

18 ... 48 V=

10 mm

259.4 x 177 x 67.5 mm

PoE power supply according to IEEE 802.3af Class 3 possible without audio applications.

- for display of preconfigured functions, measured values and data
- suitable for horizontal domovea visualisation
- depending on the software visualisation one and two surface operation, stepless configuration based on sliding and page scrolling by swiping are supported
- multi-touch function for the connection of multiple actions, e.g. to activate a function with simultaneous setting of a function value
- display illumination can be switched on automatically using brightness sensor
- connection to KNX system possible via a local server e.g. the domovea server
- external applications (Apps) available in preinstalled Android launcher
- integration of door communication functions in the domovea client or Elcom VideoFON client
- silent, long-lasting convection cooling without fan
- RJ45 Port for LAN connection
- card slot with 8 GB SDHC card
- microphone and loudspeaker with echo suppression
- with USB/Mini USB type A adapter cable
- with RJ45 connector kit from connector and patch cable
- mini-USB 2.0 jack e.g. for external storage media or updates on the upper display edge is accessible without dismantling
- 2 USB 2.0 connections on the rear
- for flush mounting and hollow-wall mounting
- for horizontal mounting

Suitable for	Order no.	Page
Housing flush-mounted for WDI10x	WDW100	151
Housing flush-mounted for WDI10x, flush-to-wall	WDW101	152
optional		
Electrical power supply 24 V DC	TGA200	138
domovea Server incl. software	TJA450	146
domovea system package	TJA451	147

 Design
 Order no.
 PU

 anthracite, 10"
 WDI100
 1

# KNX remote control and visualisation

# Touch panels





#### Touch panel 10" Windows

Auxiliary voltage 24 V= Power consumption max. 20 W TFT screen size 10" Light intensity 300 cd/m<sup>2</sup> Transmission rate Ethernet max. 1000 Mbit/s Processor 2 x 1 GHz **RAM** 2 GB Operating temperature + 5 ... + 35 °C Dimensions (W x H x D) 259.4 x 177 x 67.5 mm Assembling height 10 mm

PoE power supply according to IEEE 802.3af Class 3 possible without audio applications.

- for display of preconfigured functions, measured values and data
- signal and operating panel with touch-sensitive TFT colour display in 16:9 format
- suitable for horizontal domovea visualisation
- depending on the software visualisation one and two surface operation, stepless configuration based on sliding and page scrolling by swiping are supported
- multi-touch function for the connection of multiple actions, e.g. to activate a function with simultaneous setting of a function value
- disabling function for cleaning the user interface
- display illumination can be switched on automatically using brightness sensor
- connection to KNX system possible via a local server e.g. the domovea server
- visualisation for Berker IP-Control via browser
- integrated PC with Windows embadded operating system
- integration of door communication functions in the Elcom VideoFON client
- silent, long-lasting convection cooling without fan
- 2 RJ45 Ports for LAN connection
- internal memory of 64 GB SSD present
- microphone and loudspeaker with echo suppression
- with USB/Mini USB type A adapter cable
- with RJ45 connector kit from connector and patch cable
- mini-USB 2.0 jack e.g. for external storage media or updates on the upper display edge is accessible without dismantling
- 2 USB 2.0 connections on the rear
- additional connection for Serial RS232
- RJ45 cable in scope of delivery
- for flush mounting and hollow-wall mounting
- for horizontal mounting

Suitable for	Order no.	Page
Housing flush-mounted for WDI10x	WDW100	151
Housing flush-mounted for WDI10x, flush-to-wall	WDW101	152
optional		
Electrical power supply 24 V DC	TGA200	138
domovea Server incl. software	TJA450	146
domovea system package	TJA451	147
Order no.		

 Design
 Order no.
 PU

 anthracite, 10"
 WDI101
 1

# KNX remote control and visualisation Touch panels





#### Touch panel 16" Windows

Dimensions (W x H x D)

Assembling height

Auxiliary voltage 24 V= Power consumption max. 20 W TFT screen size 16" Light intensity 220 cd/m<sup>2</sup> Transmission rate Ethernet max. 1000 Mbit/s 2 x 1 GHz Processor **RAM** 2 GB + 5 ... + 35 °C Operating temperature

PoE power supply according to IEEE 802.3af Class 3 possible without audio applications.

377.4 x 231.8 x 66.4 mm

- for display of preconfigured functions, measured values and data
- signal and operating panel with touch-sensitive TFT colour display in 16:9 format
- suitable for horizontal domovea visualisation
- depending on the software visualisation one and two surface operation, stepless configuration based on sliding and page scrolling by swiping are supported
- multi-touch function for the connection of multiple actions, e.g. to activate a function with simultaneous setting of a function value
- disabling function for cleaning the user interface
- display illumination can be switched on automatically using brightness sensor
- connection to KNX system possible via a local server e.g. the domovea server
- visualisation for Berker IP-Control via browser
- integrated PC with Windows embadded operating system
- integration of door communication functions in the Elcom VideoFON client
- silent, long-lasting convection cooling without fan
- 2 RJ45 Ports for LAN connection
- internal memory of 32 GB SSD present
- microphone and loudspeaker with echo suppression
- with USB/Mini USB type A adapter cable
- with RJ45 connector kit from connector and patch
- mini-USB 2.0 jack e.g. for external storage media or updates on the upper display edge is accessible without dismantling
- 2 USB 2.0 connections on the rear
- additional connection for Serial RS232
- RJ45 cable in scope of delivery
- for flush mounting and hollow-wall mounting
- for horizontal mounting

Suitable for Housing flush-mounted for WDI16x Housing flush-mounted for WDI16x, flush-to-wall	Order no. WDW160 WDW161	<b>Page</b> 151 152
optional Electrical power supply 24 V DC domovea Server incl. software	TGA200 TJA450	138 146
domovea system package	TJA451	147
Order no.		

Design PU **WDI161** anthracite, 16" 1





- for installation of a Touch panel
- with cleaning cover
- for flush mounting and hollow-wall mounting
- for vertical and horizontal mounting

Design	Order no. PU
Housing flush-mounted for WDI07x, anthracite, lacquered	<b>WDW070</b> 1
Housing flush-mounted for WDI10x, anthracite, lacquered	WDW100 1
Housing flush-mounted for WDI16x, anthracite, lacquered	<b>WDW160</b> 1

 $<sup>^{\</sup>eta}$  Dimensions (W x H x D): 190 x 126 x 47 mm, cavity wall opening (W x H x D): 182 x 117 x 47 mm  $^{2}$  Dimensions (W x H x D): 260 x 177 x 64 mm, cavity wall opening (W x H x D): 252 x 169 x 64 mm

 $<sup>^{3}</sup>$  Dimensions (W x H x D): 378 x 233 x 64 mm, cavity wall opening (W x H x D): 370 x 225 x 64 mm

# KNX remote control and visualisation

# Touch panels



# Flush-mounted housing, flush-to-wall



<ul> <li>for flush-to-wa</li> </ul>	Ill installation of a Touch Panel
- with Push-to-c	pen mechanism for comfortable
mounting	
- with cleaning of	rover

- with cleaning cover
- for flush mounting and hollow-wall mounting
- for vertical and horizontal mounting

Design	Order no.	PU
Housing flush-mounted for WDI07x, flush-to-wall, anthracite, lacquered 1)	WDW071	1
Housing flush-mounted for WDI10x, flush-to-wall, anthracite, lacquered 2)	WDW101	1
Housing flush-mounted for WDI16x, flush-to-wall, anthracite, lacquered <sup>3)</sup>	WDW161	1

 $<sup>^{11}</sup>$  Dimensions (W x H x D): 197.7 x 133.6 x 74 mm, cavity wall opening (W x H x D): 197.7 x 133.6 x 74 mm  $^{21}$  Dimensions (W x H x D): 269 x 186 x 74 mm, cavity wall opening (W x H x D): 269 x 186 x 74 mm  $^{31}$  Dimensions (W x H x D): 387 x 242 x 74 mm, cavity wall opening (W x H x D): 387 x 242 x 74 mm



# Operating panels



#### **IP Control RMD**

Operating voltage	10 30 V=
Power consumption	5 VA
receiptable addresses	32766
RAM	256 MB
Operating temperature	+0 +35 °C
Assembling height as from DIN rail	58 mm
Width of rail mounted device (RMD)	8 TE
Dimensions (W x H x D)	144 x 90 x 64 mm

# PRODUCT VARIANT FOR USE-INDEPENDENT ROOM

IP control (order no. 7571 00 36) including software, with which an assignment plan can be stored, for building services engineering control according to room/building use, e.g. in schools according to timetables or in public buildings according to visiting or working times.

Knowledge of the relevant network technology is required for installation.

Mobile devices such as iPhones/iPad, mobile phones or PDAs can be linked via the Internet.

- integrated element library with standard operating elements
- freely configurable graphic operating surface for representation on the PC monitor
- up to 20 operating configurations for different applications
- integration of external control units with JAVA support (e.g. tablet PC) via WLAN
- central operating and visualisation unit for KNX via web browser
- control of multimedia applications
- for control and visualisation of e.g.shutters, lights, heating, ventilation, alarm system, sensors
- with status LED for operational stand-by, data processing, KNX communication, LAN status
- KNX server to supply up to 15 visualisation clients with KNX data
- time updating via Internet NTP server and sending on the KNX
- creation of light scenes with up to 28 telegrams each
- central functions/scenarios for heating, shutters, illumination, etc. can be configured by end user
- remote commissioning / maintenance of KNX systems possible via the Internet
- commissioning and programming without ETS via web browser
- with week and year timer function
- configuration tool for installation of IP settings and parameterisations
- support of common web browsers (IE, Netscape, Firefox etc.)
- with event indicator for e.g. status/alarm messages via e-mail
- operation with non-choked output of KNX voltage supply possible (pay attention to current consumption)
- administration of 50 users for the control of access authorisation
- database connection to the memory of utilisation/ consumption data of the KNX
- also usable with Apple Macintosh
- with updatable Flash-Controller for subsequent function expansions
- integration of network cameras possible
- for LAN connection of individual KNX installations

Order no.

- with integrated controller for logic functions (concatenations, threshold value processing)
- RJ45 Port for LAN connection
- bus connection via connecting terminal
- with screw terminals

	Touch panel	WDI	148
Design	Order no.		PU
IP control RMD, light grey	7571 00 04		1
IP-Control for use-dependent room controllers RMD, light grey	7571 00 36		1

Suitable for

Page

# Berker KNX wireless components

The Berker 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 wireless 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 for all kind of bulbs.





08	Page
Light control	160
Motion detectors	168
Light sensitive switch	174
Physical sensor	174
Blind control	175
Transmitters	177
Binary inputs	182
Switch actuators	183
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Blind actuators	190
Power supply	190
Unidirectional input concentrator	191

# **Combination overview**

# Conventional and KNX quicklink







**Button** 



IR motion





Button 1gang

2gang

Motion detector 1.1/2.2 m

detector comfort 1.1/2.2 m

Blind button time switch

				8534 21 xx	8534 22 xx		
Inserts	Order no.	8514 11 xx	8514 21 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

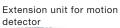


8522 11 00

Power supply for wireless application module



8502 01 00





8532 01 00



# **Combination overview** Conventional and KNX quicklink

**Application** modules **KNX** wireless















button 1gang button 2gang button 4gang motion

KNX wireless KNX wireless KNX wireless

detector comfort 1.1/2.2 m

KNX wireless timer

KNX wireless blind button

KNX wireless 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

# KNX wireless components Light control



# **Light control**

# Switch inserts













Operating voltage	230 V~	<ul> <li>low intrinsic energy requirement</li> </ul>
Frequency	50/60 Hz	<ul> <li>also usable as push-button relay switch</li> </ul>
Power consumption (standby)	< 0.3 W	<ul> <li>with extension unit input for push-button (NO</li> </ul>
230 V incandescent lamps and halogen lamps	2300 W	contact), single-surface operation and motion detector extension unit
230 V retrofit LED lamps	440 W	<ul> <li>no conductive connection between supporting ring and spreading claws</li> </ul>
Dimmable energy-saving lamps	440 W	with screw terminals
Fluorescent lamps:		

1100 VA
1000 W /130 μF
1000 W
1000 W
22 x 20 W
1500 VA
1500 W
≈ 15 W
-5 +45 °C
unlimited
max. 50 m
max. 100 m
max. 2 x 1,5/1 x 2,5 mm <sup>2</sup>
22 mm
32 mm

Neutral conductor necessary!

Comprehensive transmission and reception functions, in conjunction with a KNX wireless 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 <sup>2</sup>
Insertion depth	32 mm

#### Caution!

Only connect dimmable 230 V ESL or retrofit-LED

#### 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 wireless application module.

- 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

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

















# **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 per channel 12 ... 54 W lamps Dimmable energy-saving lamps per channel 15 ... 54 W

Dimmable conventional trans- per channel 35 ... 300 VA formers

Electronic transformers and per channel 35 ... 300 W dual-mode transformers

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<sup>2</sup> Insertion depth 32 mm

Caution!

Only connect dimmable 230 V ESL or retrofit-LED

# 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 wireless application module.

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



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

# **KNX** wireless components

# Light control



#### **Dimmer inserts**











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 <sup>2</sup>	
Insertion depth	32 mm	
Comprehensive transmission and reception functions, in conjunction with a KNX wireless application module.		

- 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

















Universal touch dimmer 1gan	g
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 <sup>2</sup>
Insertion depth	32 mm

Do not connect inductive and capacitive loads jointly. Comprehensive transmission and reception functions, in conjunction with a KNX wireless application module.

- low intrinsic energy requirement

- bulb-preserving soft startup

automatic setting to dimmable loads (autoDetect process)

phase cut-on or cut-off according to load type, selflearning

- 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



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

















Operating voltage	230 V~
Frequency	50/60 Hz
Power consumption, standby	0,3/0,7 W
(Channel 1/Channel 2)	

230 V incandescent lamps and per channel 35 ... 300 W halogen lamps

Dimmable 230 V retrofit LED per channel 12 ... 40 W lamps

Dimmable energy-saving lamps per channel 15 ... 54 W Dimmable conventional trans- per channel 35 ... 300 VA

Electronic transformers and per channel 35 ... 300 W dual-mode transformers Operating temperature -5 ... +45 °C

Number of substations unlimited Cable length, extensions max. per channel 50 m max. 100 m Load cable length max. 2 x 1,5/1 x 2,5 mm<sup>2</sup> Screw terminals

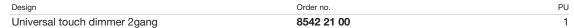
Do not connect inductive and capacitive loads jointly per

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

- low intrinsic energy requirement

- bulb-preserving soft startup
- automatic setting to dimmable loads (autoDetect
- phase cut-on or cut-off according to load type, selflearning
- short-circuit and overload proof (electronic fuse)
- optimisation of the dimming performance by fine adjustment of the load type and special adjustment
- 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





32 mm

868.3 MHz

# KNX wireless buttons for switches/dimmers

Desian

Insertion depth

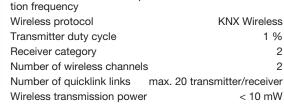












KNX wireless button 1gang quicklink

Wireless transmission/recep-

Wireless transmission range max. 100 m (free field) Wireless transmission range max. 30 m (building)

Operating temperature -5 ... +45 °C

For manual actuation or remote control via KNX wireless.

- 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 wireless/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
- switch-on brightness level for each operating area on configuration with dimmer insert, power failure proof, storable
- scene saving lockable

Suitable for

- with anti-dismantling protection
- top and bottom operating area on 1gang switching/ dimming inserts and network insert are freely
- toolless quicklink configuration using buttons and LED display

Order no.

8514 51 82		1
Order no.		PU
Mains insert for KNX wireless application module	8502 01 00	190
Universal touch dimmer 1gang	8542 12 00	162
Touch dimmer (R, L)	8542 11 00	162
Switch insert 1gang	8512 11 00	161
nelay ilisert	0312 12 00	100



1

1

1

1





Berker Q.1/Q.3		
white velvety	8514 51 22	1
polar white velvety	8514 51 29	1
anthracite velvety, lacquered	8514 51 26	1
aluminium velvety, lacquered	8514 51 24	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 wireless button 2gang quicklink

	eless transmission/recep- n frequency	- 868.3 MHz
Wir	eless protocol	KNX Wireless
Tra	nsmitter duty cycle	1 %
Red	ceiver category	2
Nur	mber of wireless channels	3 4
Nur	mber of quicklink links	max. 20 transmitter/receiver
Wir	eless transmission power	< 10 mW
	reless transmission range e field)	max. 100 m
	eless transmission range ilding)	max. 30 m
Op	erating temperature	-5 +45 °C

For manual actuation or remote control via KNX wireless.

- 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 wireless/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

Suitable for

- with anti-dismantling protection
- top and bottom operating areas on 2gang switching/ dimming inserts and network insert are freely configurable
- toolless quicklink configuration using buttons and LED display

Order no.

Page

	Switch insert 2gang	8512 22 00	161
	Universal touch dimmer 2gang	8542 21 00	163
	Mains insert for KNX wireless application module	8502 01 00	190
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			
white velvety	8514 61 22		1
polar white velvety	8514 61 29		1
anthracite velvety, lacquered	8514 61 26		1
aluminium velvety, lacquered	8514 61 24		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



# **KNX** wireless components Light control





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

1) no dismantling protection possible



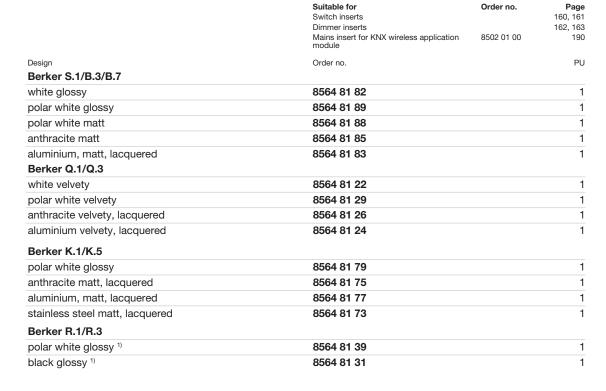
# KNX wireless button 4gang quicklink

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

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

For manual actuation or remote control via KNX wireless.

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







# **KNX** wireless components

# Light control



# **KNX** wireless time switches













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

Neutral conductor necessary!

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



Design	Order no.	PU
Relay insert	8512 12 00	1

230 V~

low intrinsic energy requirementalso usable as push-button relay switch

extension unit

- with screw terminals

with extension unit input for push-button (NO contact), single-surface operation and motion detector

no conductive connection between supporting ring and spreading claws

# KNX wireless components Light control







# KNX wireless timer quicklink

- Display



Wireless transmission/reception frequency	- 868.3 MHz
Wireless protocol	KNX Wireless
Number of wireless channels	1
Number of quicklink links	max. 20 transmitter/receiver
Wireless transmission power	< 10 mW
Wireless transmission range (free field)	max. 100 m
Wireless 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, wireless 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, wireless and extension unit commands are not executed
- configurable transmission and/or reception behaviour
- with keylock

Suitable for

- party function, no execution of automatic, wireless 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 wireless/TP gateway, surfacemounted, into the KNX TP system
- ETS additional functions: +6 scenes, operating mode on/off, scene loading, time dimming value, pushbutton, 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

Order no.

Page

- with anti-dismantling protection

	Relay insert	8512 12 00	160
	Mains insert for KNX wireless application module	8502 01 00	190
Design	Order no.		PU
Berker S.1/B.3/B.7			
white glossy	8574 52 82		1
polar white glossy	8574 52 89		1
polar white matt	8574 52 88		1
anthracite matt	8574 52 85		1
aluminium, matt, lacquered	8574 52 83		1
Berker Q.1/Q.3			
white velvety	8574 52 22		1
polar white velvety	8574 52 29		1
anthracite velvety, lacquered	8574 52 26		1
aluminium velvety, lacquered	8574 52 24		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











# Wireless system platform motion detectors











Operating voltage		230 V~	low intrinsic energy requirement
Frequency		50/60 Hz	<ul> <li>also usable as push-button relay switch</li> </ul>
Power consumption	(standby)	< 0.3 W	with extension unit input for push-button (NO
230 V incandescent halogen lamps	lamps and	2300 W	contact), single-surface operation and motion detector extension unit
· '		440 144	<ul> <li>no conductive connection between supporting ring</li> </ul>
230 V retrofit LED la	mps	440 W	and spreading claws
Dimmable energy-sa	aving lamps	440 W	<ul> <li>with screw terminals</li> </ul>
Fluorescent lamps:			
- uncompensated		1100 VA	

an room por room on	1100 111
- parallel compensated	1000 W /130 μF
- in Duo circuit	1000 W
- with electronical ballast (EB)	1000 W
Compact fluorescent lamps with electronic ballast	22 x 20 W
Dimmable conventional transformers	1500 VA
Electronic transformers and dual-mode transformers	1500 W
Minimum contact load	≈ 15 W
Operating temperature	-5 +45 °C
Number of substations	unlimited
Cable length, extensions	max. 50 m
Load cable length	max. 100 m
Screw terminals	max. 2 x 1,5/1 x 2,5 mm <sup>2</sup>
Housing installation depth	22 mm
Claw guidance installation depth	32 mm

Neutral conductor necessary!

Comprehensive transmission and reception functions, in conjunction with a KNX wireless 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 <sup>2</sup>
Insertion depth	32 mm

#### 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 wireless application module.

_	low	intrinsic	energy	requiremen
---	-----	-----------	--------	------------

- 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













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 <sup>2</sup>
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
- no conductive connection between supporting ring and spreading claws
- with screw terminals

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



 Design
 Order no.
 PU

 Touch dimmer (R, L)
 8542 11 00
 1













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 <sup>2</sup>
Insertion depth	32 mm

Do not connect inductive and capacitive loads jointly. Comprehensive transmission and reception functions, in conjunction with a KNX wireless application module.

KNX wireless motion detector comfort 1.1 m quicklink

- 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, selflearning

- short-circuit and overload proof (electronic fuse)

optimisation of the dimming performance by fine adjustment of the load type and special adjustment

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





# KNX wireless motion detector application modules







Wireless transmission fre-	868.3 MHz
quency	128 127 147
Wireless protocol	KNX Wireless
Transmitter duty cycle	1 %
Receiver category	2
Number of wireless channels	1
Number of quicklink links m	ax. 20 transmitter/receiver
Wireless transmission power	< 10 mW
Wireless transmission range (free field)	max. 100 m
Wireless transmission range (building)	max. 30 m
Delay time, adjustable	≈ 1 s 3 h
Nominal mounting height	1.1 m
Detection angle, settable	each side $\approx$ 45 90 °
Response sensitivity, set- table	≈ 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
Continuous direct sunlight pene	etrating the upward-point-

- 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 wireless/TP gateway, surfacemounted, 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 wireless appliances

- scene saving lockable

- μ-processor controlled mode of operation

with anti-dismantling protection

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

Cuitable for	Ordor no	Dogg
push-button	non units using ins	stallation

Suitable for	Order no.	Page
Inserts		168 to 170
Mains insert for KNX wireless application module	8502 01 00	190

PU

1 1 1

Design	
Berker	S

Berker S.1/B.3/B.7		
white glossy	8534 51 82	
polar white glossy	8534 51 89	
polar white matt	8534 51 88	
anthracite matt	8534 51 85	
aluminium, matt, lacquered	8534 51 83	

Order no.



# **KNX** wireless components Motion detectors









Berker Q.1/Q.3	
white velvety	<b>8534 51 22</b> 1
polar white velvety	<b>8534 51 29</b> 1
anthracite velvety, lacquered	<b>8534 51 26</b> 1
aluminium velvety, lacquered	<b>8534 51 24</b> 1
Berker K.1/K.5	
polar white glossy	<b>8534 51 79</b> 1
anthracite matt, lacquered	<b>8534 51 75</b> 1
aluminium, matt, lacquered	<b>8534 51 77</b> 1
stainless steel matt, lacquered	<b>8534 51 73</b> 1
Berker R.1/R.3	
polar white glossy 1)	<b>8534 51 39</b> 1
black glossy 1)	<b>8534 51 31</b> 1

1) no dismantling protection possible







KNX	wireless	motion	detecto	r comi	fort 2.2	2 m	quicklin	ık

Wireless transmission frequency	868.3 MHz
Wireless protocol	KNX Wireless
Transmitter duty cycle	1 %
Receiver category	2
Number of wireless channel	s 1
Number of quicklink links	max. 20 transmitter/receiver
Wireless transmission powe	r < 10 mW
Wireless transmission range (free field)	max. 100 m
Wireless transmission range (building)	max. 30 m
Delay time, adjustable	≈ 1 s 3 h
Nominal mounting height	2.2 m
Detection angle, settable	each side $\approx$ 45 90 $^{\circ}$
Response sensitivity, settable	≈ 10 100 %

Response brightness, ≈ 5 ... 1000 lx, ∞ lx (day) adjustable Range, frontal  $\approx 8 \text{ m}$ Range, frontal (at 1.1 m  $\approx 4 \text{ m}$ installation height) Range, side each  $\approx 6 \text{ m}$ Range, side (at 1.1 m install-

ation height) Detection field, rectangular  $\approx 8 \ x \ 12 \ m$ shaped Switch-off pre-warning to 30 s

dimming value 50% for -5 ... +45 °C Operating temperature 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 wireless/TP gateway, surfacemounted, 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

- remote control via quicklink transmitter

- scene opening via KNX wireless appliances

- scene saving lockable

μ-processor controlled mode of operation

- with anti-dismantling protection

- optional operation of extension units using installation push-button

Suitable for	Order no.	Page
Inserts		168 to 170
Mains insert for KNX wireless application module	8502 01 00	190
Order no.		PU





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		
white velvety	8534 61 22	1
polar white velvety	8534 61 29	1
anthracite velvety, lacquered	8534 61 26	1
aluminium velvety, lacquered	8534 61 24	1

each  $\approx 3 \text{ m}$ 

# **KNX** wireless components

# Motion detectors





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









Operating voltage	4.5 V=
Battery service life	≈ 4 years
Wireless transmission frequency	868.3 MHz
Wireless protocol	KNX Wireless
Transmitter duty cycle	1 %
Receiver category	2
Number of wireless channel	s 1
Number of quicklink links	max. 20 transmitter/receiver
Wireless transmission nowe	r < 10 mW

KNX wireless motion detector 220° surface-mounted

Wireless transmission power Wireless transmission range max. 100 m (free field) Wireless transmission range max. 30 m (building) Delay time, adjustable ≈ 1 s ... 3 h Lockout time 10 s Recommended installation ≈ 2.5 m height 220° Detection angle Response sensitivity, ≈ 20 ... 100 % settable

adjustable Range, frontal  $\approx 16 \text{ m}$ Range, side each  $\approx$  8 m Detection field, semi-oval  $\approx$  16 x 16 m shaped Operating temperature -20 ... +55 °C Dimensions (W x H x D) 91 x 130 x 153 mm

≈ 5 ... 1000 lx, ∞ lx (day)

Response brightness,

- low intrinsic energy requirement

- reset function (to factory setting)
- quicklink functions: time switching, NO contact push-
- integration in the KNX wireless/TP gateway, surfacemounted, into the KNX TP system
- ETS additional functions: operating mode on/off, push-button, dimming value, brightness display, movement scene loading, no movement scene loading
- with battery status indicator
- with configuration LED
- with LED detection indicator
- with configuration button
- μ-processor controlled mode of operation
- with crawl-under protection
- with 3 Micro, alkaline batteries AAA LR03
- toolless quicklink configuration using buttons and LED
- 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	Order no.	Page
optional Surface-mounted corner mounting adapter for motion detector	EE855	173



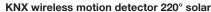
Design	Order no.	PU
polar white matt	TRE520	1
anthracite	TRE521	1











Operating voltage	4.5 V=
Wireless transmission frequency	868.3 MHz
Wireless protocol	KNX Wireless
Transmitter duty cycle	1 %
Receiver category	2
Number of wireless channel	s 1
Number of quicklink links	max. 20 transmitter/receiver
Wireless transmission power	r < 10 mW

Number of quicklink links max. 20 transmitter/receiver
Wireless transmission power < 10 mW
Wireless transmission range (free field)
Wireless transmission range max. 30 m

(building)  $\begin{array}{lll} \mbox{Delay time, adjustable} & \approx 1 \ \mbox{s} \ldots 3 \ \mbox{h} \\ \mbox{Lockout time} & 10 \ \mbox{s} \\ \mbox{Recommended installation} & \approx 2.5 \ \mbox{m} \\ \mbox{height} \end{array}$ 

Response sensitivity, settable  $\begin{array}{ll} \approx 20 \; ... \; 100 \; \% \\ \\ \text{Response brightness,} \end{array} \\ \approx 5 \; ... \; 1000 \; \text{lx}, \; \infty \; \text{lx (day)} \\ \end{array}$ 

Detection angle

adjustable Range, frontal  $\approx 16 \text{ m}$  Range, side each  $\approx 8 \text{ m}$  Detection field, semi-oval  $\approx 16 \times 16 \text{ m}$ 

shaped Operating temperature  $-20 \dots +55$  °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 pushbutton

 integration in the KNX wireless/TP gateway, surfacemounted, into the KNX TP system

 ETS additional functions: operating mode on/off, push-button, dimming value, brightness display, movement scene loading, no movement scene loading

- with configuration LED

with LED detection indicator

with configuration button

- μ-processor controlled mode of operation

with crawl-under protection

toolless quicklink configuration using buttons and LED display

not dependent on mains power

for wall and ceiling installation, corner installation with adapter

- vertically slewing and horizontally rotating

- with cover elements to limit the detection field

 wall retaining plate and fastening material included in scope of delivery

Suitable for optional	Order no.	Page
Surface-mounted corner mounting adapter for motion detector	EE855	173





220°





# KNX wireless 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 wireless controller 220°, surface-mounted (order no. 8536 51 00) and switch actuator, 1gang, surface-mounted (order no. 8516 51 00)

Suitable for optional	Order no.	Page
Surface-mounted corner mounting adapter for motion detector	EE855	173
Order no.		PU
TRE720		1



# Surface-mounted corner mounting adapter for motion detector

polar white matt/white

- for mounting, e.g. on building corners

	Tor mounting, e.g. on ballang of	for mounting, e.g. on banding corners	
	Suitable for	Order no.	Page
	KNX wireless motion detector 220° surface- mounted	TRE520	172
	KNX wireless motion detector 220° solar	TRE530	173
	KNX wireless motion detector 220° surface- mounted/switch actuator 1gang surface- mounted set	TRE720	173
Design	Order no.		PU
polar white matt	EE855		1
anthracite	EE856		1



# Light sensitive switch



#### KNX wireless brightness sensor

Operating voltage 3 V= Battery service life ≈ 4 vears Wireless transmission 868.3 MHz frequency KNX Wireless Wireless protocol Transmitter duty cycle 1 % Receiver category 2 Number of wireless channels 3 objects: - input up / down - slat angle / stop

Wireless transmission range (building)
Sun setting range ≈ 1 ... 10 klx

Twilight setting range  $\approx 10 \dots 300 \text{ lx}$ Operating temperature  $+0 \dots +50 \text{ °C}$ Fibre optic cable, sensor  $\approx 1.5 \text{ m}$ cable length

Dimensions (L x W x H) 138 x 26 x 31 mm Weight  $\approx 70 \text{ g}$ 

- reset function (to factory setting)

quicklink functions: up/down push-button
 integration in the KNX wireless/TP gateway, surface-mounted, into the KNX TP system

ETS additional functions: button function, battery condition

condition

- with 2 potentiometers for sun/twilight and LED dis

 with 2 potentiometers for sun/twilight and LED display for actual value

- with configuration LED

with configuration button

- with 2 Micro, alkaline batteries AAA LR03

toolless quicklink configuration using buttons and LED display

- confectioned, with fibre-optic cable and plug

- for suction cover to window pane

- with photodiode

with adhesive pads and adhesive cable clips for fastening

Suitable for	Order no.	Page
KNX wireless blind button quicklink	8524 52	175
KNX wireless blind time switch quicklink	8574 51	176



Design	Order no.	PU
polar white matt	TRC321B	1

# **Physical sensor**

### Wireless magnetic contact





# KNX wireless magnetic contact

Weight

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

 quicklink functions: switching, blind, 2 scenes, time switching, NO contact push-button, forced control

 integration in the KNX wireless/TP gateway, surfacemounted, into the KNX TP system

ETS additional functions: value, delay time, button function, battery condition

with configuration LED

with transmission status, battery status and control LEDs

with configuration button

- with 2 Micro, alkaline batteries AAA LR03

toolless quicklink configuration using buttons and LED display

- with adapters for magnet height compensation

- with adhesive pads for fastening

- with additional screw terminals for wired reed contacts



 Design
 Order no.
 PU

 polar white matt
 TRC301B
 1

≈ 70 g



# **Blind control**



#### **Blind insert comfort**

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

- low intrinsic energy requirement

- with 2 mechanically and electrically mutually-locked relay contacts

with 230 V extension unit inputs for up and down

- for single, group and master controls

- no conductive connection between supporting ring and spreading claws

circuiting of extension units push-buttons for blinds, blind inserts, key push-buttons for blinds

- with screw terminals



μ

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

#### KNX wireless blind covers





# KNX wireless blind button quicklink

remote control via KNX wireless.

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

- low intrinsic energy requirement

memory function for automatic execution of learned up and down times with position

- configurable transmission and/or reception behaviour

party function, no execution of automatic, wireless and extension unit commands (lock-out protection)

reset function (to factory setting)

- quicklink functions: blind, 2 scenes, memory, forced control, up/down push-button

- integration in the KNX wireless/TP gateway, surfacemounted, into the KNX TP system

- ETS additional functions: +6 scenes, operating mode, status display, 2 x alarm

- LED application module/insert compatibility display

- with configuration and function LEDs

- with indicator LED for lock-out protection

- with status LED for memory and party function, red/

- with configuration and function button

- scene opening via KNX wireless appliances

- slat position storable for scene

- with anti-dismantling protection

toolless quicklink configuration using buttons and LED

sun protection and twilight-controlled lowering with wireless brightness sensor

- with imprinted symbol arrows

	Suitable for	Order no.	Page
	Blind insert comfort	8522 11 00	175
	Mains insert for KNX wireless application module	8502 01 00	190
	optional		
	KNX wireless brightness sensor	TRC321B	174
Design	Order no.		PU
Berker S.1/B.3/B.7			
white glossy	8524 52 82		1
polar white glossy	8524 52 89		1
polar white matt	8524 52 88		1
anthracite matt	8524 52 85		1
aluminium, matt, lacquered	8524 52 83		1







Berker Q.1/Q.3		
polar white velvety	8524 52 29	1
anthracite velvety, lacquered	8524 52 26	1
aluminium velvety, lacquered	8524 52 24	1
Berker K.1/K.5		
polar white glossy	8524 52 79	1
anthracite matt, lacquered	8524 52 75	1
aluminium, matt, lacquered	8524 52 77	1
stainless steel matt, lacquered	8524 52 73	1
Berker R.1/R.3		
polar white glossy	8524 52 39	1
black glossy	8524 52 31	1





#### KNX wireless blind time switch quicklink

- Display



Wireless transmission/ 868.3 MHz reception frequency
Wireless protocol KNX Wireless
Number of wireless channels 1
Number of quicklink links max. 20 transmitter/receiver
Wireless transmission power < 10 mW
Wireless transmission range (free field)

Wireless transmission range (building)

Running time 2 min

Astronomic time shift  $\pm 2 \text{ h}$ Random number generator for holiday program

Running accuracy  $\pm 3 \text{ min/year}$ 

 $\begin{array}{llll} \mbox{Power reserve} & & \approx 24 \ \mbox{h} \\ \mbox{Number of operation times} & 20/\mbox{day} \\ \mbox{for up/down} & & & \\ \mbox{Minimum slat adjustment} & & \approx 150 \ \mbox{ms} \\ \mbox{time} & & & \\ \mbox{Lamella adjustment on} & & < 1 \ \mbox{s} \\ \mbox{signal duration} & & & \\ \mbox{Lamella adjustment on} & & < 0.5 \ \mbox{s} \\ \mbox{button-press} & & & \\ \end{array}$ 

change of direction

Operating temperature

-5 ... +45 °C

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

Change-over time for

- 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, wireless and extension unit commands are not executed

configurable transmission and/or reception behaviour

with keylock

 party function, no execution of automatic, wireless 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 wireless/TP gateway, surfacemounted, into the KNX TP system

with automatic summer-/winter time switching (can be switched off)

- scene opening via KNX wireless 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 wireless brightness sensor

programmed switching times.	Blind insert comfort	8522 11 00	175
	Mains insert for KNX wireless application module	8502 01 00	190
	optional		
	KNX wireless brightness sensor	TRC321B	174
Design	Order no.		PU
Berker S.1/B.3/B.7			
white glossy	8574 51 82		1
polar white glossy	8574 51 89		1
polar white matt	8574 51 88		1
anthracite matt	8574 51 85		1
aluminium, matt, lacquered	8574 51 83		1
Berker Q.1/Q.3			
white velvety	8574 51 22		1
polar white velvety	8574 51 29		1
anthracite velvety, lacquered	8574 51 26		1
aluminium velvety, lacquered	8574 51 24		1

Suitable for

< 0.6 s









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 wireless hand-held 2-channel transmitter

- Labelling field



Operating voltage 6 V= Battery service life [years]  $\approx 5$ Wireless transmission frequency 868.3 MHz Wireless protocol **KNX Wireless** Transmitter duty cycle Receiver category 2 Number of wireless channels 2 Wireless transmission power < 10 mW Wireless transmission range (free max. 100 m Wireless transmission range max. 30 m (building)

For wireless remote control of all assigned KNX wireless receivers.

reset function (to factory setting)

- quicklink functions: switching, dimming, blind, 2 scenes, time switching, NO contact push-button, memory
- integration in the KNX wireless/TP gateway, surfacemounted, 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





-10 ... +45 °C

83 x 46.5 x 15.8 mm





# KNX wireless hand-held 4-channel transmitter

- Labelling field

Dimensions (L x W x H)

Operating temperature

Dimensions (L x W x H)



Operating voltage 6 V= Battery service life [years]  $\approx 5$ Wireless transmission frequency 868.3 MHz Wireless protocol **KNX Wireless** Transmitter duty cycle 1 % Receiver category 2 Number of wireless channels 4 Wireless transmission power < 10 mW Wireless transmission range (free max. 100 m max. 30 m

Wireless transmission range (building) max. 30 m (building) 
Operating temperature  $-10 \dots +45 \, ^{\circ} \mathrm{C}$ 

For wireless remote control of all assigned KNX wireless receivers.

- reset function (to factory setting)
- quicklink functions: switching, dimming, blind, 2 scenes, time switching, NO contact push-button, memory
- integration in the KNX wireless/TP gateway, surfacemounted, 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

83 x 46.5 x 15.8 mm









- Labelling field



Operating voltage Battery service life ≈ 5 years 868.3 MHz Wireless transmission frequency Wireless protocol **KNX Wireless** Transmitter duty cycle 1 % Receiver category 2

6 Number of wireless channels Wireless transmission power < 10 mW Wireless transmission range (free max. 100 m field)

Wireless transmission range (building)

+0 ... +45 °C Operating temperature 133.6 x 50.2 x 16 mm Dimensions (L x W x H)

For wireless remote control of all assigned KNX wireless receivers.

- reset function (to factory setting)

- quicklink functions: switching, dimming, blind, 2 scenes, time switching, NO contact push-button, memory
- integration in the KNX wireless/TP gateway, surfacemounted, 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





6 V=

max. 30 m





# KNX wireless hand-held 18-channel transmitter

- Labelling field

Dimensions (L x W x H)



Operating voltage Battery service life  $\approx 5$  years Wireless transmission frequency 868.3 MHz Wireless protocol **KNX Wireless** Transmitter duty cycle 1 % Receiver category 2 Number of wireless channels 18 Wireless transmission power < 10 mW Wireless transmission range (free max. 100 m field) Wireless transmission range max. 30 m (building) +0 ... +45 °C Operating temperature

For wireless remote control of all assigned KNX wireless receivers.

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



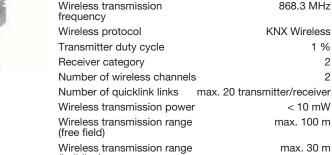
Design Order no. PU white/dark blue **TU418** 

133.6 x 50.2 x 16 mm



#### Wall-transmitters





Operating voltage

Battery service life

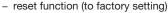
(building)

Operating temperature

Assembling height

For wireless remote control of all assigned KNX wireless

KNX wireless wall-transmitter 1-gang flat quicklink



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

Design	Order no.	PU
Berker S.1/B.3/B.7		
white glossy	8565 52 82	1
polar white glossy	8565 52 89	1
polar white matt	8565 52 88	1
anthracite matt	8565 52 85	1
aluminium, matt, lacquered	8565 52 83	1
Berker Q.1/Q.3		
white velvety	8565 52 22	1
polar white velvety	8565 52 29	1
anthracite velvety, lacquered	8565 52 26	1
aluminium velvety, lacquered	8565 52 24	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

≈ 5 years

< 10 mW

max. 100 m

max. 30 m

-5 ... +45 °C

14 mm

2

2

868.3 MHz

1) no dismantling protection possible



# **KNX** wireless components

(free field)

receivers.

Operating temperature

# **Transmitters**







# KNX wireless wall-transmitter 2-gang flat quicklink

Operating voltage Battery service life  $\approx 5$  years Wireless transmission 868.3 MHz frequency **KNX Wireless** Wireless protocol Transmitter duty cycle 1 % Receiver category Number of wireless channels 4 Number of quicklink links max. 20 transmitter/receiver Wireless transmission power < 10 mW Wireless transmission range max. 100 m

Wireless transmission range (building) max. 30 m

Assembling height 14 mm
For wireless remote control of all assigned KNX wireless

- reset function (to factory setting)

 quicklink functions: switching, dimming, blind, 2 scenes, time switching, NO contact push-button, memory

- integration in the KNX wireless/TP gateway, surfacemounted, into the KNX TP system
- ETS additional functions: +6 scenes, operating mode on/off, push-button, status display, dimming value
- with configuration LED
- with transmission status and battery status LED, red/ green/orange
- with configuration button
- operating areas configurable as one or two-area operation
- with anti-dismantling protection
- with lithium coin cell battery 3 V type: CR 2430
- top and bottom operating areas are freely configurable
- toolless quicklink configuration using buttons and LED display
- for flat surface mounting and extension of combinations

Design	Order no.	PU
Berker S.1/B.3/B.7		
white glossy	8565 62 82	1
polar white glossy	8565 62 89	1
polar white matt	8565 62 88	1
anthracite matt	8565 62 85	1
aluminium, matt, lacquered	8565 62 83	1
Berker Q.1/Q.3		
white velvety	8565 62 22	1
polar white velvety	8565 62 29	1
anthracite velvety, lacquered	8565 62 26	1
aluminium velvety, lacquered	8565 62 24	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

-5 ... +45 °C

1) no dismantling protection possible



# **KNX** wireless components **Transmitters**







#### KNX wireless wall-transmitter 1-gang flat solar quicklink

Operating voltage	3 V=
Wireless transmission frequency	868.3 MHz
Wireless protocol	KNX Wireless
Transmitter duty cycle	1 %
Receiver category	2
Number of wireless channel	s 2
Number of quicklink links	max. 20 transmitter/receiver
Wireless transmission powe	r < 10 mW

max. 100 m Wireless transmission range (free field) Wireless transmission range max. 30 m (building)

at least 300 lx 6 h/day Required Ø brightness -5 ... +45 °C Operating temperature Assembling height 14 mm

For wireless remote control of all assigned KNX wireless receivers.

- reset function (to factory setting)

- quicklink functions: switching, dimming, blind, 2 scenes, time switching, NO contact push-button, memory

integration in the KNX wireless/TP gateway, surfacemounted, 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

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 wireless wall-transmitter 2-gang flat solar quicklink

Operating voltage	3 V=
Wireless transmission frequency	868.3 MHz
Wireless protocol	KNX Wireless
Transmitter duty cycle	1 %
Receiver category	2
Number of wireless channels	4
Number of quicklink links ma	ax. 20 transmitter/receiver
Wireless transmission power	< 10 mW
Wireless transmission range (free field)	max. 100 m
Wireless 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 wireless remote control of a receivers.	II assigned KNX wireless

- reset function (to factory setting)

- quicklink functions: switching, dimming, blind, 2 scenes, time switching, NO contact push-button, memory
- integration in the KNX wireless/TP gateway, surfacemounted, 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
- for flat surface mounting and extension of combinations



Design	Order 110.	FU
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

# **KNX** wireless components

# Binary inputs





## Berker R.1/R.3

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

# **Binary inputs**



#### KNX wireless binary input 2-gang flush-mounted 230 V

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

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

Suitable for

TRR302R		1
Order no.		PU
Optional Push-button, NO contact	1811 1.	94
Glass sensors		88
Berker TS Crystal		95

Order no.

Page



Design light grey



## **Switch actuators**





## KNX wireless switch actuator 1-gang surface-mounted

Operating voltage 230 V~ 50/60 Hz Frequency 230 V incandescent lamps 1500 W and halogen lamps Fluorescent lamps: 600 VA - uncompensated - with electronical ballast 6 x 58 W (EB) Compact fluorescent lamps 6 x 18 W Conventional transformers 600 VA Electronic transformers 600 W Wireless reception frequency 868.3 MHz Wireless protocol **KNX Wireless** 1 % Transmitter duty cycle Receiver category Number of quicklink links max. 20 transmitter/receiver

Operating temperature

Dimensions (L x W x H)

Dimensions (L x W x H)

low intrinsic energy requirement
 repeat function can be activated to increase the wireless range

- reset function (to factory setting)

 quicklink functions: switching, 2 scenes, time switching, NO contact push-button, forced control

 integration in the KNX wireless/TP gateway, surfacemounted, into the KNX TP system

 ETS additional functions: +6 scenes, operating mode on/off, status display

with control LED for On/Offwith manual operation on/off

- scene opening via KNX wireless appliances

- scene saving lockable

toolless quicklink configuration using buttons and LED display

- with screw-in lift terminals



Design	Order no.	PU
white	TRE201	1

-10 ... +55 °C 150 x 85 x 35 mm





#### KNX wireless switch actuator 2-gang surface-mounted

	0 0
Operating voltage	230 V~
Frequency	50/60 Hz
Switching current	2x 10 A/230 V AC1 A
230 V incandescent lamps and halogen lamps	per channel 1500 W
Fluorescent lamps:	
- uncompensated	per channel 600 VA
- with electronical ballast (EB)	per channel 6 x 58 W
Compact fluorescent lamps	18 W
Conventional transformers	600 VA
Electronic transformers	per channel 600 W
Wireless reception frequency	y 868.3 MHz
Wireless protocol	KNX Wireless
Transmitter duty cycle	1 %
Receiver category	2
Number of quicklink links	max. 20 transmitter/receiver
Operating temperature	-10 +55 °C

- low intrinsic energy requirement

repeat function can be activated to increase the wireless range

- reset function (to factory setting)

 quicklink functions: switching, 2 scenes, time switching, NO contact push-button, forced control

 integration in the KNX wireless/TP gateway, surfacemounted, into the KNX TP system

 ETS additional functions: +6 scenes, operating mode on/off, status display

- with control LED for On/Off

with manual operation on/off per channel

- scene opening via KNX wireless appliances

- scene saving lockable

toolless quicklink configuration using buttons and LED display

- with screw-in lift terminals



Design	Order no.	PU
white	TRE202	1

150 x 85 x 35 mm







#### KNX wireless switch actuator for plugs

230 V~
50/60 Hz
16 A
2300 W
1600 VA
1200 W
y 868.3 MHz
KNX Wireless
1 %
2
max. 20 transmitter/receiver
max. 100 m
max. 30 m
+0 +45 °C
98 x 54 x 77 mm
41 mm

- low intrinsic energy requirement

repeat function can be activated to increase the wireless range

- reset function (to factory setting)

 quicklink functions: switching, 2 scenes, time switching, NO contact push-button

 integration in the KNX wireless/TP gateway, surfacemounted, into the KNX TP system

 ETS additional functions: +6 scenes, operating mode on/off, forced control, status display

- with configuration and function LEDs

- with control LED for On/Off

- with configuration and function button

- with manual operation on/off

- scene opening via KNX wireless appliances

- scene saving lockable

toolless quicklink configuration using buttons and LED display



Design	Order no.	PU
polar white matt, German standard	TRC270D	1
polar white matt, French standard	TRC270F	1





# KNX wireless switch actuator 1gang/binary input 1gang surface-mounted

For remote-controlled switching of electrical loads.

Operating voltage	230 V~
Frequency	50/60 Hz
Switching current	10 A / 230 V AC1
230 V incandescent lamps and halogen lamps	1500 W
Fluorescent lamps:	
- uncompensated	600 VA
- with electronical ballast (EB)	6 x 58 W
Compact fluorescent lamps	6 x 18 W
Conventional transformers	600 VA
Electronic transformers	600 W
Wireless transmission/ reception frequency	868.3 MHz
Wireless protocol	KNX Wireless
Transmitter duty cycle	1 %
Receiver category	2
Number of wireless channels	s 1
Number of quicklink links	max. 20 transmitter/receiver
Wireless transmission power	< 10 mW
Wireless transmission range (free field)	max. 100 m
Wireless transmission range (building)	max. 30 m
Operating temperature	-10 +55 °C
Dimensions (L x W x H)	150 x 85 x 35 mm

- low intrinsic energy requirement

repeat function can be activated to increase the wireless range

- reset function (to factory setting)

 quicklink functions: switching, 2 scenes, time switching, NO contact push-button, forced control

 integration in the KNX wireless/TP gateway, surfacemounted, into the KNX TP system

 ETS additional functions: +6 scenes, operating mode on/off, 1 up/down button control, push-button, 2 x alarm, status display

- with configuration and function LEDs

- with transmission status and control LED for On/Off

- with configuration and function button

- with manual operation on/off

- scene opening via KNX wireless appliances

- scene saving lockable

toolless quicklink configuration using buttons and LED display

with independent, mains supplied, binary input for potential-free contact.

potential-free contact

activation, for example through switch, push-buttons, timer

- with screw-in lift terminals



Design	Order no.	PU
white	TRE400	1





#### KNX wireless switch actuator 1gang output flushmounted

Operating voltage

ΙP

Frequency	50/60 Hz
Switching current	
230 V incandescent lamps and halogen lamps	2300 W
Fluorescent lamps:	
- parallel compensated	250 W
Conventional transformers	800 VA
Electronic transformers	1500 W
Wireless transmission/reception frequency	868.3 MHz
Wireless protocol	KNX Wireless
Transmitter duty cycle	1 %
Receiver category	2
Number of wireless channels	1
Number of quicklink links n	nax. 20 transmitter/receiver
Wireless transmission power	< 10 mW
Wireless transmission range (free field)	max. 100 m
Wireless transmission range (building)	max. 30 m
Operating temperature	+0 +45 °C
Binary cable length	≈ 20 cm
Binary cable length, extendable to	max. 5 m
Dimensions, sensor (Ø x H)	53 x 30 mm

- low intrinsic energy requirement

reset function (to factory setting)
 quicklink functions: switching, 2

quicklink functions: switching, 2 scenes, time switching, NO contact push-button, forced control

 integration in the KNX wireless/TP gateway, surfacemounted, into the KNX TP system

 ETS additional functions: +6 scenes, operating mode on/off, 1 up/down button control, push-button, 2 x alarm, status display

- ETS additional function: repeater function

- with configuration and function LEDs

- with transmission status and control LED for On/Off

- with configuration and function button

- scene opening via KNX wireless appliances

- scene saving lockable

toolless quicklink configuration using buttons and LED display

with independent, mains supplied, binary input for potential-free contact

activation, for example through switch, push-buttons, timer

- confectioned, with 2-core cable

- for installation behind flush-mounted inserts

- with screw-in lift terminals





20

230 V~





# KNX wireless switch actuator 1gang/binary input 1gang flush-mounted

. 3 3	
Operating voltage	230 V~
Frequency	50/60 Hz
Switching current	
230 V incandescent lamps and halogen lamps	1500 W
Fluorescent lamps:	
- parallel compensated	11x 36 W /47 μF
Conventional transformers	800 VA
Electronic transformers	600 W
Wireless transmission/ reception frequency	868.3 MHz
Wireless protocol	KNX Wireless
Transmitter duty cycle	1 %
Receiver category	2
Number of wireless channels	1
Number of quicklink links	max. 20 transmitter/receiver
Wireless transmission power	< 10 mW
Wireless transmission range (free field)	max. 100 m
Wireless transmission range (building)	max. 30 m
Operating temperature	+0 +45 °C
Binary cable length	≈ 20 cm

Binary cable length,

Dimensions, sensor (Ø x H)

extendable to

IΡ

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



Design	Order no.	PU
white	TRB501	1

30

max. 5 m

53 x 30 mm







O1 Once the switch is connected to the emitter, start the configuration by pressing cfg button and then the button on the switch.





O2 Select the function on the output (1 function = 1 color pattern). Validate by a long press > 2s until the LED blinks. **03** Exit configuration mode by a short press on **efg** button on the emitter.

# 1 color pattern = 1 function

LED colour	On/Off Receivers		Dimmers		Shutters/	Blinds
	Function		Function		Function	
	on Off	On/Off (Toggle Switch)	-6	On/Off Dimming +/-	<b>_</b>	Up/Stop (TRM692G only)
	on	ON	+	ON (Dimming +)		Up, Stop
	off	OFF	_	OFF (Dimming -)	<b>1</b>	Down, Stop
	<i>uu</i> 1	Scenario 1	<i>uu</i> 1	Scenario 1	<i>uu</i> 1	Scenario 1
	<u></u> 2	Scenario 2	<u>uu</u> 2	Scenario 2	<u> </u>	Scenario 2
	$\boxtimes$	Timer	$\boxtimes$	Timer	7	Down, Stop
	-/-	On/Off (Switch)	-/-	On/Off (Switch)	<b>\$</b> -/-	Shutter Control (Switch)
	on 车	Priority ON *			_	Priority UP
	off 🕶	Priority OFF *			<b>▼</b> ₀—	Priority DOWN
-	×	Clear	×	Clear	×	Clear

<sup>\*</sup>functions only available on TRMxxx



# Micromodules



#### Wireless transmitter 2 inputs with battery

3 V CR 2430 Supply voltage

Transmission frequency 868.3 MHz

**Dimensions** 41 x 39.5 x 11 mm

Degree of protection IP 30

Max. connection distance per input < 10 m Minimum contacts closing time 50 ms

Operating temperature -10 °C to + 50 °C

Storage temperature -20°C to +70°C

The flush-mounting input module TRM702A is a quicklink wireless transmitter. Powered by battery, it can be used to interface 2 floating contacts (switches, automatic-control contacts or intrusion alarm panel contacts) which can thus be rendered communicating. quicklink wireless products can be configured together and operated within the same wireless installation. - 2 independent input channels.

- supply by battery.

The specific functions of this product are defined in

its configuration and set-up.

Design	Order no.	PU
light grey	TRM702A	1



#### Wireless transmitter/receiver 2 inputs + 1 output 200W

230 V~ +10 %-15% 50/60 Hz 240 V~ +6%/-6% 50/60 Hz Supply voltage

Product consumption 100mW 868.3 MHz Transmission frequency

**Dimensions** 40 x 40 x 18 mm

Degree of protection IP 20 Max. connection distance < 10 m

per input

Minimum contacts closing 50 ms

Operating temperature -15 °C to + 45 °C

Storage temperature -25°C to +70°C

TRM690G is a power supplied wireless transmitter/ receiver 2-wire, supplied in series with the 230 V load. It is used to control incandescent, LV and ULV halogen, and dimmable LED lights.

- 2 inputs for connection of pushbuttons, switches or other automatic control contacts.

- one output to connect an electric load in ON/OFF





## Wireless transmitter/receiver 2 inputs + 1 dimmer 200W

230 V~ +10 %-15% 50/60 Hz 240 V~ +6%/-6% 50/60 Hz Supply voltage

100mW Product consumption

Transmission frequency 868.3 MHz 40 x 40 x 18 mm **Dimensions** 

IP 20 Degree of protection Max. connection distance < 10 m

per input

Minimum contacts closing 50 ms

Operating temperature -15 °C to + 45 °C Storage temperature -20°C to +70°C

D

- 2 inputs for connection of pushbuttons, switches or other automatic control contacts.
- a dimming output (max. 200W).

The TRM691E is a wireless transmitter/receiver,
powered in series with the load. It is used for dimming
incandescent, LV and ULV halogen, and dimmable LED
loads.

Design	Order no.	PU
light grev	TRM691E	1

# Micromodules





#### Wireless transmitter/receiver 2 inputs + 1 output 3A

230 V~ +10 %-15% 50/60 Hz 240 V~ +6%/-6% 50/60 Hz Supply voltage

150mW Product consumption Typical dissipation under 450mW

Maximum switching rate 15 switching cycles/minute at full load

Transmission frequency 868.3 MHz 40 x 40 x 20 mm **Dimensions** Electrical characteristics 12 V 1 mA

of the inputs

Surge voltage Degree of protection IP 20 Max. connection distance < 10 m

per input

Minimum contacts closing 50 ms

Operating temperature -10 °C to + 50 °C Storage temperature -25°C to +70°C

The TRM693G is a wireless transmitter/receiver, powered by the mains. It is particularly suitable for ON/OFF control of lighting circuits at 230 V.

- 2 inputs for connection of pushbuttons, switches or other automatic control contacts.
- an output with relay, capable of ON-OFF switching of an electrical load

Design	Order no.	PU
light grey	TRM693G	1



#### Wireless transmitter/receiver 2 inputs + 1 shutters/blinds output 3A

230 V~ +10 %-15% 50/60 Hz 240 V~ +6%/-6% 50/60 Hz Supply voltage

Product consumption 150mW Typical dissipation under 450mW

load

600ms Time delay between 2

movements in opposite directions

Maximum switching rate at 15 switching cycles/minute

full load

868.3 MHz Transmission frequency 40 x 40 x 20 mm **Dimensions** 12 V 1 mA

Electrical characteristics of

the inputs

Surge voltage Degree of protection IP 20 Max. connection distance < 10 m

per input

Minimum contacts closing 50 ms

Operating temperature -10 °C to + 50 °C Storage temperature -25°C to +70°C

The TRM692G is a wireless transmitter/receiver, powered by the mains.

-	2	inputs	tor	connection o	ÌΤ	switches	or	pushbuttons.	

- an output to control a motor for shutters, awnings or Venetian blinds.

Design	Order no.	PU
light grey	TRM692G	1





# Wireless transmitter/receiver 2 inputs + 1 output 4A

Supply voltage 230 V~ +10 %-15% 50/60 Hz 240 V~ +6%/-6% 50/60 Hz

Product consumption 150mW
Typical dissipation under 150mW

Maximum switching rate at 20 switching cycles/minute full load

Transmission frequency 868.3 MHz Dimensions  $40 \times 40 \times 20 \text{ mm}$ 

Electrical characteristics of 12 V 1 mA the inputs

Surge voltage 4KV
Degree of protection IP 20
Max. connection distance < 10 m
per input

Operating temperature -10 °C to +50 °C Storage temperature -25 °C to +70 °C

The TRM694G is a wireless transmitter/receiver, powered by the mains.

 2 inputs for connection of pushbuttons, switches or other automatic control contacts, a fl oating contact output for ON-OFF control of electrical loads.

Design	Order no.	PU
light grey	TRM694G	1



## Control for latching relay and timer

Supply voltage 230 V AC Max. current consumption 500mW Total power loss under In 150mW Transmission frequency 868.3 MHz Dimensions 40 x 40 x 18 mm Rated current 0.5A Degree of protection IP 20 Operating temperature -15 °C to + 45 °C Storage temperature -25°C to +70°C

The function of TRM600 is to add a wireless control on an existing toggle or timer circuit. The product is located in the wall box behind a conventional push button which controls the existing 230V toggle or timer circuits. It acts as a wireless, receiver and delivers a 200ms pulse contact after receiving a wireless control.

Design	Order no.	PU
light grey	TRM600	1



# Wireless blind actuator





#### KNX wireless blind actuator 1gang surface-mounted

Operating voltage	230 V~
Frequency	50/60 Hz
Switching current	10 A / 230 V AC1
Wireless reception frequency	/ 868.3 MHz
Wireless protocol	KNX Wireless
Transmitter duty cycle	1 %
Receiver category	2
Number of quicklink links	max. 20 transmitter/receiver
Wireless transmission range (free field)	max. 100 m
Wireless transmission range (building)	max. 30 m
Lamella adjustment on signal duration	<1s
Change-over time for change of direction	< 0.6 s
Operating temperature	-10 +55 °C
Dimensions (L x W x H)	150 x 85 x 35 mm

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



Design	Order no.	PU
white	TRE221	1

# Power supply for KNX wireless application modules

ΙP





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 <sup>2</sup>
Insertion depth	22 mm
Housing installation depth	32 mm (claw guide)

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

- low intrinsic energy requirement

- as supply for wireless application modules
- no conductive connection between supporting ring and spreading claws
- with screw terminals

Suitable for	Order no.	Page
KNX wireless buttons for switches/dimmers		163
KNX wireless motion detector application modules		170
KNX wireless blind covers		175
KNX wireless timer quicklink	8574 52	167



Mains insert for KNX wireless application module	8502 01 00	PU
Design	Order no.	PH





# Unidirectional wireless input concentrator



#### Unidirectional wireless input concentrator

30V DC Supply voltage Transmission frequency 868.3 MHz **Dimensions** 203 x 77 x 26,5 mm Degree of protection IP 30 0 °C to + 45 °C Operating temperature Storage temperature -20°C to +70°C

channel. - view of status by 2x8 segment display.

- possibility to restore the factory settings for the

- possibility of deleting links created from the product.

- 24 channels available in the TX100 configuration. - 32 channels available in the ETS configuration.

- maximum concentration of 24 wireless inputs per

The TR351 concentrators increase the number of unidirectional wireless products in a combined system (wireless/wire-based) by grouping together the inputs that perform the same function.

The precise functions of these products depend on the configuration and settings.

Design	Order no.	PU
white	TR351A	1



#### Media coupler

Supply voltage 30V DC (TBTS, SELV, ZLVS) Transmission frequency 868.3 MHz **Dimensions** 203 x 77 x 26,5 mm IP 30 Degree of protection 0 °C to + 45 °C Operating temperature -20°C to +70°C Storage temperature

- wire products and wireless products interface via bus

- Bus and wireless telegram visualization by LEDs and 2x8 segment display.

Couplers TR131 provide interface of tebis range wire products and wireless products. They are part of tebis installation system.

Design Order no. PU white **TR131B** 1



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1341	94	1011 30 22	46	1012 21 35	65	1012 60 62	54
1366	94	1011 30 25	45	1012 21 45	63	1012 60 74	59
1388	94	1011 30 46	46	1012 21 69	64	1012 60 76	59
1391	94	1011 36 06	50	1012 21 74	63	1012 60 79	59
1392	94	1011 36 09	50	1012 21 79	64	1012 60 82	53
1394	94	1011 39 04	45 54	1012 21 84	63	1012 60 83	59
1809	96	1011 60 12	54	1012 21 89	63	1012 60 84	53 53
1824 1870	96 91	1011 60 14 1011 60 16	54 55	1012 22 04 1012 22 09	69 69	1012 60 86 1012 60 89	53 53
1870	96	1011 60 10	54	1012 22 09	69	1012 60 89	56
1871	91	1011 60 19	59	1012 22 14	69	1012 60 92	56
1011 21 04	64	1011 60 20	59	1012 22 10	70	1012 60 94	56
1011 21 09	64	1011 60 62	54	1012 22 35	70	1012 60 99	56
1011 21 14	64	1011 60 74	59	1012 22 45	68	1012 64 14	50
1011 21 16	64	1011 60 76	59	1012 22 69	70	1012 64 24	49
1011 21 35	65	1011 60 79	59	1012 22 74	68	1012 66 16	50
1011 21 45	63	1011 60 82	53	1012 22 79	70	1012 66 26	49
1011 21 74	63	1011 60 83	59	1012 22 84	69	1012 69 04	49
1011 21 79	64	1011 60 84	53	1012 22 89	68	1012 69 09	50
1011 21 84	63	1011 60 86	53	1012 23 34	68	1012 69 14	49
1011 21 89	63	1011 60 89	53	1012 23 39	67	1012 69 19	49
1011 22 04	69	1011 60 92	56	1012 23 44	67	1012 89 12	43
1011 22 09	69	1011 60 94	56	1012 23 49	67	1012 89 19	43
1011 22 14	69	1011 60 96	56	1012 23 54	67	1012 89 62	43
1011 22 16	69	1011 60 99	56	1012 23 59	67	1012 89 82	42
1011 22 35	70	1011 64 14	50	1012 23 64	66	1012 89 89	42
1011 22 45	68	1011 64 24	49	1012 23 69	66	1012 99 09	42
1011 22 74	68	1011 66 16	50	1012 23 74	66	1012 99 19	43
1011 22 79	70	1011 66 26	49	1012 23 79	65	1012 99 39	42
1011 22 84	69	1011 69 04	49	1012 23 84	65	1012 99 49	42
1011 22 89	68	1011 69 09	50	1012 23 89	65	1012 99 59	44
1011 23 34	68	1011 69 14	49	1012 30 01	46	1012 99 69	43
1011 23 39	67	1011 69 19	49	1012 30 04	45 45	1013 21 04	64 64
1011 23 44 1011 23 49	67	1011 89 12	43	1012 30 05 1012 30 12	45 46	1013 21 09	64 64
1011 23 49	67 67	1011 89 19 1011 89 62	43 43	1012 30 12	46 46	1013 21 14	64 64
1011 23 54	67	1011 89 82	43 42	1012 30 10	45	1013 21 16 1013 21 25	65
1011 23 59	66	1011 89 82	42	1012 30 21	46	1013 21 25	65
1011 23 64	66	1011 99 09	42	1012 30 22	45	1013 21 35	63
1011 23 74	66	1011 99 19	43	1012 30 25	46	1013 21 43	64
1011 23 79	65	1011 99 39	42	1012 36 06	50	1013 21 74	63
1011 23 84	65	1011 99 49	42	1012 36 09	50	1013 21 79	64
1011 23 89	65	1011 99 59	44	1012 39 04	45	1013 21 84	63
1011 30 01	46	1011 99 69	43	1012 60 12	54	1013 21 89	63
1011 30 04	45	1012 21 04	64	1012 60 14	54	1013 22 04	69
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