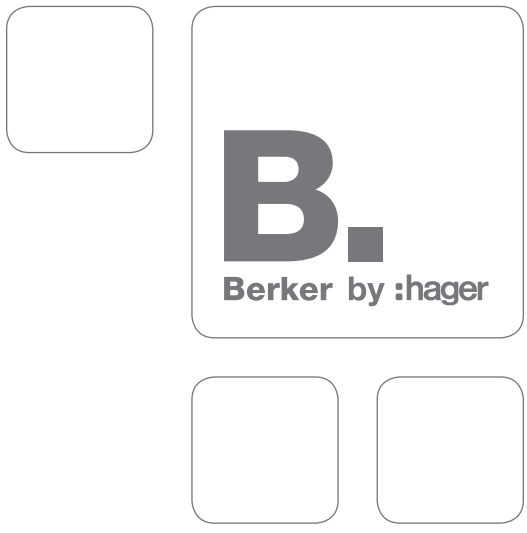
KNX system units

The system components are KNX devices, which assume higher-level functions, independent of the application. They guarantee the necessary infrastructure in the building, ensuring a flawless information exchange between sensors and actuators. In addition, the system devices stand for the highest quality and functional safety in the system.



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
- Quick Connection 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	Quick Connection 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	Quick Connection 0.75 to 2.5 mm²

Design	Order no.	PU
light grey	**TXA112**	1

Power supply 160 mA RMD

Supply voltage	230V AC 50/60 Hz
Output voltage	30V DC
Output current max.	160 mA
Absorbed power	15 VA
Width	4 modules
Operating temperature	-5 ... +45°C
Connections	Quick Connection 0.75 to 2.5 mm²

Design	Order no.	PU
light grey	**TXA113**	1

Power supply 1x30V, 320 mA + 1x24V, 640 mA RMD

Supply voltage	230V AC 50/60 Hz
Output voltage	30V DC and 24 V DC
Output current max.	320 mA and 640 mA
Absorbed power	4.4 W
Width	4 modules
Operating temperature	-5 ... +45°C
Connections	Quick Connection 0.75 to 2.5 mm²

Design	Order no.	PU
light grey	**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	Quick Connection 0.75 to 2.5 mm^2

- Power supply has 2 outputs KNX 30 V DC 320 mA

Design	Order no.	PU
light grey	**TXA116**	1

Couplers

Line coupler

Operating voltage	21 - 32 V DC
Width	2 modules
Operating temperature	-5 ... +45°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

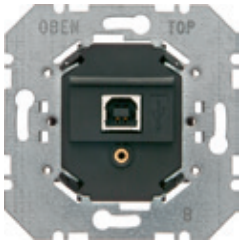
Router IP/KNX

Supply voltage	KNX bus (21 -30V DC)
External SELV power	24V AC/DC (12-30V AC/DC)
Supply:	1.6 GHz
- power usage from the bus line	10mA max 30V DC
- power usage from the auxiliary power supply	800mW max (25mA - 24V DC)
Operating temperature	-5°C to 45°C
Width	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

Data interfaces



KNX data interface USB flush-mounted

Operating voltage over bus	21 ... 32 V=
Data transmission rate	max. 9.6 kBd
Operating temperature	-5 ... +45 °C
USB cable length	max. 5 m

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

Design	Order no.	PU
black	**7504 00 04**	1

Centre plate with TAE cut-out

	Suitable for KNX data interface USB flush-mounted	**Order no.** 7504 00 04	**Page** 144

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

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 Arsys		
white glossy	**1035 01 02**	10
polar white glossy	**1035 01 69**	10
brown glossy	**1035 01 01**	10
light bronze matt, aluminium lacquered	**1034 00 01**	10
Stainless steel, metal matt finish	**1034 00 04**	10
gold matt, aluminium anodised	**1034 00 02**	10

Berker R.1/R.3		
polar white glossy	**1038 20 89**	10
black glossy	**1038 20 45**	10

Accessories

Data rail with connector

Operating temperature	-5 ... +45 °C
length	214 mm
For DIN rail with depth	7.5 mm
Width of rail mounted device (RMD)	12 TE

- with 4 plug-in terminals 4pole
- self-adhesive

For DIN rail 35 x 7.5 mm to according to DIN EN 60715

Design	Order no.	PU
Data rail with connector	**7500 00 08**	1

Cover for data rail

Operating temperature	-5 ... +45 °C
length	240 mm
divisible into	0.5 TE-steps
Width of rail mounted device (RMD)	13.5 TE

- to protect against dirt contamination and interference voltage

Design	Order no.	PU
light grey	**7500 00 04**	5

Connecting terminal

Operating temperature	-5 ... +45 °C
Conductor Ø	0.6 ... 0.8 mm
Number of conductors	2 x 4
Dimensions (L x W x H)	10.2 x 11.5 x 10 mm

- 2pole
- for the bus connection of the units
- polarization red + black -
- can be used as branch terminal
- with plug-in terminals

Design	Order no.	PU
red/black	**TG008**	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

Quick Connect 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	≤ 500 V
Response time	≤ 100 ms
Insulation resistance	> 10,000 MΩ
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

Modular USB interface

Operating voltage	21 - 32 V DC
Data transfer rate	max. 9.6 kBaud
Operating temperature	-25 to +45°C
Width	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

Kit interface USB/KNX

Operating voltage	21 - 32 V DC
Data transfer rate	max. 9.6 kBaud
Operating temperature	-25 to +45°C
USB cable length	max. 3 m
Width	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