



Light sensitive switch



Light sensitive switch

Supply voltage	Bus 29 V
Maximum connection distance of probe	100 m
Operating range	2 to 200 lux 200 to 20000 lux
Operating temperature	0°C to 45°C
Size	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	- Delivered with 1 m cable
Connection	flexible 2 x 0.75 mm ² / 1m	
IP	54	
Operating temperature	-30°C to 60°C	

Design	Order no.	PU
cell for flush mounting	EE002	1



Cell for wall mounting

Dimensions	25 x 25 x 20 mm
Connection	fixed 1 to 4 mm ²
IP	54
Operating temperature	-30°C to 60°C

Design	Order no.	PU
cell for wall mounting	EE003	1

Physical sensors

KNX weather station



KNX weather station

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 TG 053A 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.

Design	Order no.	PU
white	TG053A	1



Support for TG053 weather station

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
IP	54
Operating temperature	-25 °C to 50°C
Dimensions	50 x 50 x 24 mm

Design	Order no.	PU
black	TP110	1

Analogue inputs



Analogue input 4gang RMD

Frequency	50/60 Hz	- with green/red status LED (operation/fault)
Operating voltage over bus	21 ... 32 V=	- with programming button and red programming LED
Auxiliary voltage	24 V~	- for active sensors
Voltage, inputs	0-1; 0-10 V	- for wind, precipitation, brightness, temperature, twilight as well as humidity and temperature sensor, surface-mounted
Input impedance, voltage	18 kΩ	- extendable with an analogue input module 4gang
Sensor output voltage	24 V=	- bus connection via connecting terminal
Sensor output current	max. 100 mA	- inputs parameterisable can be set individually
Current consumption	170 mA	- input 4-20 mA will be controlled for wire break
Inputs, current	0-20; 4-20 mA	- cyclic transmission or transmission at absolute input modification settable
Input impedance, current	100 Ω	- with screw terminals
Limit values	per channel 2	- with system interface for analogue input module
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	

Suitable for	Order no.	Page
Power supply 24 V AC RMD	ST312	120

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

Design	Order no.	PU
light grey	TYF784	1

Wind gauge



Wind gauge

Supply voltage	230 V AC 50 Hz	- Adjustment of wind's speed limit : up to 55 km/h (range ex-works 25 km/h)
contact loading capacity	230 V AC 4 A	- Reaction time when exceeding this limit : 3 seconds (5 seconds max.)
IP	65	- Close time at wind : 10 minutes (fixed)
Operating temperature	-25 °C to 50°C	
Dimensions of the enclosure	80 x 100 x 52 mm	

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.

Design	Order no.	PU
wind gauge and connection enclosure IP65	TG050	1

Supplementary products

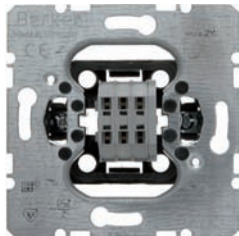


Safety transformer 25VA 230V / 12-24V

Operating voltage	230 V~
Frequency	50/60 Hz
Rated power	25VA
Operating temperature	-20 ... +35 °C
Width	4 modules

- 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.

Design	Order no.	PU
light grey	ST312	1



Sensor insert

- e.g. for temperature sensor PT100
- with plug-in terminals
- without spreader claws

Design	Order no.	PU
Sensor insert	7594 10 01	10



Central plate for sensor insert

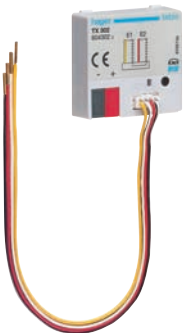
Caution!
Use only with intermediate ring for central plate from the corresponding range.
Labelling field cannot be used.

- e.g. for temperature sensor PT100
- with slots for air circulation

Design	Order no.	PU
Berker S.1/B.3/B.7, Q.1/Q.3, K.1/K.5, Arsys		
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

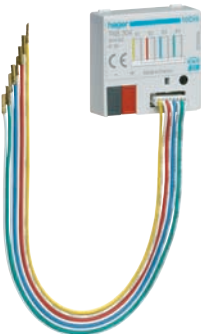
- Power supply by Bus.
- The modules are installed in a 60 mm dia. Flush mounting box in association with a pushbutton or a switch.
- Application software is used to configure the individual inputs.
- The sensors associated to the inputs (pushbuttons, switches, automatic controls) are used to control 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, pushbuttons 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, pushbuttons 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 pushbutton, 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.



2-input universal module

Contact current	0.5 mA	- Universal input modules are used to interface contacts free of potential with KNX bus.
Supply voltage	30V DC	- In this way, pushbuttons, switches or conventional automatic controls can become communicating devices.
Busline max consumption	15 mA	- 2 independent channels.
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	

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



4-input universal module

Contact current	0.5 mA	- Universal input modules are used to interface contacts free of potential with KNX bus.
Supply voltage	30V DC	- 4 independent channels.
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	

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	Page 122 122
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 ambiances 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 pushbutton, 2 independent circuits having different functions.
- LED outputs (statusindication) control the lighting of standard LED signal lamps.



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

LED outputs specifications	I = 850 μ A U = 1.8V DC	- The universal input modules interface potential free contacts with KNX.
Supply voltage	30V DC	- Push buttons, switches and conventional automatism can thus be used to drive standard LED indicators.
Busline max consumption	15 mA	- Outputs can control conventional signaling LEDs.
Dimensions	38 x 35 x 12 mm	- 2 independent channels.
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	

Design	Order no.	PU
light grey, 2gang	TXB322	1



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

LED outputs specifications	I = 850 μ A U = 1.8V DC	- The universal input modules interface potential free contacts with KNX.
Supply voltage	30V DC	- 4 independent channels.
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	

Design	Order no.	PU
light grey, 4gang	TXB344	1

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 (pushbuttons, 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, pushbuttons 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, pushbuttons 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 pushbutton, 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
- Quick Connection Terminal



4 channel input module			
Signal voltage	230V AC 50 Hz	<ul style="list-style-type: none">- Universal input modules allow interfacing 230V AC contacts supplied by KNX bus- In this way, pushbuttons, 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 pushbuttons per channel	
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		
Operating temperature	0°C to +45°C		
Connections	0.75 to 2.5 mm²		

Design	Order no.	PU
light grey	TXA304	1



6 channel input module

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

- Universal input modules allow interfacing contacts free of potential or supplied with 24...230V AC/DC power by bus KNX.
- In this way, pushbuttons, 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 pushbuttons per channel

Design	Order no.	PU
light grey	TXA306	1



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 ²

- Universal input modules allow interfacing 230V AC contacts supplied by KNX bus
- In this way, pushbuttons, 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 channels electronic time switches weekly cycle		
Supply voltage	Bus 30 V DC	- Product delivered with current time and date set.
Consumption	9.5 mA max (TXA022) 10 mA max (TXA023)	- Automatic change of winter / summer time
IP	20	- Programming key: <ul style="list-style-type: none">- for permanent overrides,- for program copy or save
Operating temperature	-5 °C to 45°C	- Programming for day or group of days
Size	2 modules	- 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
EASY	TXA022	1
with DCF	TXA023	1



Clock key		
Avoids unrequested handling of the TXA022 and TXA023 time switches.		
Design	Order no.	PU
yellow	EG004	1



Programming key		
Allows complementary programmes back-up for TXA022 and TXA023 time switches.		
Design	Order no.	PU
grey	EG005	1

Consumption indicator and energymeters



KNX consumption indicator

Bus power supply	30 V DC (TBTS)
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	0.75 to 2.5 mm ²
- for the lower terminals	0.2 to 1.5 mm ²
IP	20
Operating temperature	-5 °C to 45°C
Size	6 modules

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 three-phase 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
light grey	TE330	1



Temperature sensors

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



Three phase energymeter, direct reading 100A

Voltage	230 V AC 50/60 Hz
Starting current	40 mA
Base current	10A
Max current	63A

Energymeters 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 output
- unlimited saving of measures.
- LED flashing according to consumption.
- Option : tarif 1 / tarif 2.
- Three phases energymeters are adapted to all kind of networks.
- Display indication in case of bad wiring.

Design	Order no.	PU
light grey	TE360	1



Three phase energymeters, connection via current transformers

Voltage	230/400 V AC 50/60 Hz
Starting current	10 mA
Max current on CT secondary	6A

- 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 output
- unlimited saving of measures.
- LED flashing according to consumption.
- Option : tarif 1 / tarif 2.
- Three phases energymeters are adapted to all kind of networks.
- Display indication in case of bad wiring.

Energymeters 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.

Design	Order no.	PU
light grey	TE370	1



Current transformers for TE360 and TE370

Design	Order no.	PU
50 / 5 A	SR051	1
100 / 5 A	SR101	1
150 / 5 A	SR150	1
200 / 5 A	SR200	1
250 / 5 A	SR250	1
300 / 5 A	SR300	1
400 / 5 A	SR400	1
600 / 5 A	SR600	1
800 / 5 A	SR800	1
1000 / 5 A	SR850	1
1500 / 5 A	SR900	1
2000 / 5 A	SR910	1

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 configured 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 be 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 parameterisable
- With programming button and red programming LED
- Bus connection via connecting terminal
- Quick Connection Terminal

	Max. switching capacity for switching actuators					
	TYA604A TYA606A TYA608A TYA610A	TYA604B TYA606B TYA608B TYA610B	TYA604C TYA606C TYA608C TYA610C	TYA604D TYA606D TYA608D TYA610D	TYA606E	TYB601A TYB602A
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	- The 4-fold output module TYA604. are relays designed to interface Bus KNX with on/off electric loads - 4 volt-free contacts
Power dissipation	1 W (TYA204A) 3 W (TYA204B) 8 W (TYA204C) 8 W (TYA204D)	
Width	4 modules	
Operating temperature	0°C to +45°C	
Connections	0.75 to 2.5 mm ²	

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



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

Supply voltage	30 V DC	- The 6-fold output module TYA606. are relays designed to interface Bus KNX with on/off electric loads
Power dissipation	1 W (TYA206A) 5 W (TYA206B) 12 W (TYA206C) 12 W (TYA206D) 6 W (TYA206E)	- 6 volt-free contacts
Width	4 modules 6 modules (TYA606E)	
Operating temperature	0°C to +45°C	
Connections	0.75 to 2.5 mm ²	

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)

Supply voltage	30 V DC	- The 8-fold output module TYA608. are relays designed to interface Bus KNX with on/off electric loads
Power dissipation	2 W (TYA206A) 6 W (TYA206B) 12 W (TYA206C) 12 W (TYA206D)	- 8 volt-free contacts
Width	6 modules	
Operating temperature	0°C to +45°C	
Connections	0.75 to 2.5 mm ²	

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)

Supply voltage	30 V DC	- The 10-fold output module TYA610. are relays designed to interface Bus KNX with on/off electric loads
Power dissipation	3 W (TYA206A) 7 W (TYA206B) 15 W (TYA206C) 15 W (TYA206D)	- 10 volt-free contacts
Width	6 modules	- Each output to be individually configured for Lighting or Shutters/Blinds applications
Operating temperature	0°C to +45°C	- Shutters/Blinds applications required two Output Channel
Connections	0.75 to 2.5 mm ²	

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



1 flush mounted output			
Supply voltage	30 V DC SELV	- 1 channel controlled via the KNX bus (depending on features configured).	
Power dissipation	225 W	- Output state is displayed on the product.	
Typical consumption on the KNX bus	5.3 mA	- Output can be manually controlled using the pushbutton.	
Standby consumption on the KNX bus	4.7 mA	Each product feature depends on its configuration and settings.	
Dimensions	53 x 29 mm		
Operating temperature	0°C to +45°C		
Connections	0.75 to 2.5 mm ²		
Breaking capacity	μ230 Vv 4A AC1		
Surge voltage	4kV		
Protection degree	IP20		

Design	Order no.	PU
light grey	TYB601A	1



2 flush mounted outputs			
Supply voltage	30 V DC SELV	- 2 channels controlled via the KNX bus (depending on features configured).	
Power dissipation	225 W	- Outputs state are displayed on the product.	
Typical consumption on the KNX bus	5.9 mA	- Outputs manual control option from pushbuttons.	
Standby consumption on the KNX bus	4.7 mA	Each product feature depends on its configuration and settings.	
Dimensions	53 x 29 mm		
Operating temperature	0°C to +45°C		
Connections	0.75 to 2.5 mm ²		
Breaking capacity	μ230 Vv 4A AC1		
Surge voltage	4kV		
Protection degree	IP20		

Design	Order no.	PU
light grey	TYB602A	1

Dim actuators

Universal dim actuators

- 1 dimming channels 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.
- Quick Connection Terminal.



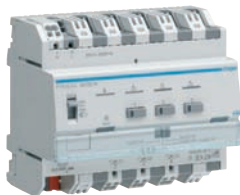
1 channel universal dimmer 300W

Supply voltage	30 V DC 230 V AC 50/60 Hz	- 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
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 ²	
Design		Order no. PU
light grey		TYA661A 1



1 channel universal dimmer 600W

Supply voltage	30 V DC 230 V AC 50/60 Hz	- 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
Busline max consumption	2.3 mA	
Consumption without load	3 W	
Power dissipation	7.5 W	
Width	4 modules	
Operating temperature	-5°C to +45°C	
Connections	0.75 to 2.5 mm ²	
Design		Order no. PU
light grey		TYA661B 1



3 channels universal dimmer 300W

Supply voltage	30 V DC 230 V AC 50/60 Hz	- 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 position. - 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.
Busline max consumption	2.3 mA	
Consumption without load	5 W	
Power dissipation	8.9 W	
Width	6 modules	
Operating temperature	-5°C to +45°C	
Connections	0.75 to 2.5 mm ²	
Design		Order no. PU
light grey		TYA663A 1

1 - 10 V / DALI interfaces



3 channel 1 - 10 V dimmer

Supply voltage	30 V DC 230 V AC 50/60 Hz	- 3 dimming channels controlled by bus KNX - Control lighting circuits via a 1/10V connection, acting upon remote control dimmers or electronic ballasts
Busline max consumption	2.3 mA	- Min/Max level local setting
Consumption without load	3 W	- State of channel displayed on product
Power dissipation	9 W	- Manual control of channels available locally on the product for Wiring, testing and start-up
Control current per channel	50 mA max	- After power on, a 20-sec delay is required for the dimmer switch to perform the first control operation
Switching current	16A	- With potential-free NO contacts
230 V incandescent and halogen lamps	2300 W	- Basic brightness programmable
Halogen ELV (12 or 24V) via ferromagnetic transformer/ electronic transformer	1500 VA / 1500 W	- Behavior in the event of bus voltage failure parameterisable
Electronic Ballast 1-10V	1000 W	- With programming button and red programming LED
Dimmable Electronic Ballast	50 mA max	- Bus connection via connecting terminal
Light Dimmer	30 max	- With screw terminals
Width	4 modules	
Operating temperature	0°C to +45°C	
Connections	1 to 6 mm ² (screw terminal)	

Design	Order no.	PU
light grey	TX211A	1



KNX DALI-Gateway

KNX supply voltage	21 ... 32 V DC SELV	- Control of a maximum of 64 DALI devices in a max. of 32 groups
External supply voltage	110...240 V AC +10%/-15% 50/60 Hz	- Manual control of the groups independent of the bus (site operation with broadcast control)
Busline max consumption	typically 150 mW	- Feedback of DALI error status or short-circuit and supply voltage failure message
Power consumption	max. 6 W	- Central switching function
Total power loss	max. 3 W	- Incorporation of the groups into up to 16 lightscenes possible
Operating temperature	-5°C to +45°C	- All channel-oriented functions can be parameterized separately for each group. This feature permits independent and multi-functional control of the DALI devices
Connections	screw terminal preferably on top	- The Staircase timer function can only be parameterized for groups 1 ... 16
DALI voltage	typically 16 V DC with overvoltage protection	- Adjusting the limit values for brightness is possible.
DALI current	typically 128mA max. 200mA temporarily	- Dimming response can be parameterized.
		- Soft-On or Soft-Off function
		- Disable function or, alternatively, forced-control position function can be parameterized for each group, with the disable function, blinking of lighting groups is possible
		- Timer functions (ON-delay, OFF-delay, staircase lighting function, also with pre-warning function)
		- Response to bus voltage failure and bus voltage return as well as after ETS programming can be adjusted for each group
		- Automatic device replacement
		- With programming button and red programming LED
		- Bus connection via connecting terminal
		- With screw terminals preferably on top

Design	Order no.	PU
light grey	TYA670D	1

3-channel LED controller



3-channel LED controller - voltage controlled

Supply voltage	12-24 V DC	- 3 variation channels controlled by the KNX bus
Maximum charge	2.2 A / channel	- 60 scenes called up by the KNX bus
Max power	12V DC 80 W 24V DC 155 W	- 4 different colour sequences including up to 12 colours per sequence.
Control mode	direct voltage	- Short circuit protection
Number of channel	1-3	- Overheating protection
Control signal	KNX	- Electrical surge protection
Consumption on the KNX bus	Max. 12 mA	- Polarity reversal protection
Operating temperature	-5°C to +45°C	
Connections	KNX wire 0.75 to 1.5 mm ² (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.

Design	Order no.	PU
black	TYB673A	1



3-channel LED controller - current controlled

Supply voltage	24 V DC	- 3 variation channels controlled by the KNX bus
Output current	350/500/700 mA	- 60 scenes called up by the KNX bus
Control mode	direct current	- 4 different colour sequences including up to 12 colours per sequence.
Max output voltage	22V DC	- Short circuit protection
Number of channel	1-3	- Overheating protection
Control signal	KNX	- Electrical surge protection
Consumption on the KNX bus	Max. 12 mA	- Polarity reversal protection
Operating temperature	-5°C to +45°C	
Connections	KNX wire 0.75 to 1.5 mm ² (screw-on terminal block)	
Output signal	PWM / 600Hz	
Max. cable length	10 m	
Protection degree	IP20	

The TYB673B 3-channel LED controller can be used to 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.

Design	Order no.	PU
black	TYB673B	1

Blind actuators RMD

- 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 configured 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 parameterisable 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:
 - St atus 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
 - St atus 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 ²
Breaking capacity	μ230 Vv 6A AC1
Surge voltage	4kV
Protection degree	IP20

- 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.

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.

Design	Order no.	PU
output device for 4 shutters	TYA624A	1
output device for 4 shutters and / or blinds	TYA624C	1



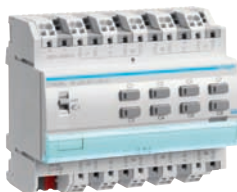
Output device for 4 shutters 24V DC

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 ²
Breaking capacity	μ 24V DC 6A DC1
Surge voltage	4kV
Protection degree	IP20

- 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.

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.

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 ²
Breaking capacity	μ230 Vv 6A AC1
Surge voltage	4kV
Protection degree	IP20

- 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.

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.

Design	Order no.	PU
output device for 8 shutters	TYA628A	1
output device for 8 shutters and / or blinds	TYA628C	1



1-output module for shutters and/or blinds, flush mounting

Supply voltage	30 V DC SELV
Power dissipation	225 mW
Typical consumption on the KNX bus	5.9 mA
Standby consumption on the KNX bus	4.7 mA
Dimensions	53 x 29 mm
Operating temperature	-5°C to +45°C
Connections	0.75 to 2.5 mm ²
Breaking capacity	μ230Vv 4A AC1
Surge voltage	4kV
Protection degree	IP20

- 1 controlled channel.
 - Visualization of the movement in progress (up/down) on the product.
 - Up/down manual control option from pushbuttons.
- Each product feature depends on its configuration and settings.

The 1-output controls TYB621C are actuators that enable interfacing of the KNX Bus with the opening elements. They are part of the tebis installation system. They are used to control opening elements such as shutters, awnings, venetian blinds, etc.

Design	Order no.	PU
flush mounting	TYB621C	1

HVAC actuators RMD



Heating actuator 6gang RMD 230 V

Operating voltage over bus	21 ... 32 V=	- valve drives for thermoelectric valve drives 230 V, closed in de-energized state
Auxiliary voltage	230/240 V~	- for individual single room temperature control
Frequency	50/60 Hz	- for continuous (PI) or switched (2-point) control
Switching current at 250 V~	max. 50 mA	- with programming button and red programming LED
Actuators per channel	max. 4	- bus connection via connecting terminal
Operating temperature	-5 ... +45 °C	- with emergency programme, e.g. for sensor or bus failure
Assembling height as from DIN rail	58 mm	- with screw terminals
Dimensions (W x H x D)	72 x 90 x 65 mm	
Width of rail mounted device (RMD)	4 TE	

Design

light grey

Suitable for
Valve drive 230 V

Order no.
7590 00 76

Page
137

Order no.

TYF646T

PU

1



Fan coil actuator 2gang RMD

Operating voltage over bus	21 ... 32 V=	- for the electric activation of fan convectors
Auxiliary voltage	230 V~	- for converting RTR control variables into valve positions, fan stages
230 V incandescent lamps	2300 W	- activation of 1 or 2 fan channels with 6 or 3 fan stages
230 V halogen lamps	2300 W	- for operating modes heating/cooling or heating and cooling
Conventional transformers	1200 W	- manual activation of blow fans using push-buttons or the operating panel
Electronic transformers	1500 W	- use of free channels to control switching loads
Fluorescent lamps:		- 4 manual operation buttons for controlling fan stages and bus function on/off
- uncompensated	1000 W	- manual operating also possible without bus e.g. on building site
- parallel compensated	1160 W /140 µF	- with programming button and red programming LED
Operating temperature	-5 ... +45 °C	- with 8 red status LEDs and 3 red LEDs as manual actuation indication
Assembling height as from DIN rail	63 mm	- bus connection via connecting terminal
Dimensions (W x H x D)	72 x 90 x 70 mm	- with screw terminals
Width	4 modules	
Comply with the fan convector manufacturer's instructions.		
Optimised for commissioning with ETS3 from version D, patch A.		

Design

light grey

Order no.

TYF642F

PU

1

Valve drives



KNX valve drive

Power supply	bus KNX 30V DC TBTS	- Automatic regulating apparatus and temperature collection apparatus.
Power consumption	< 10 mA	- Work mode: Comfort, Standby, Night time, Frost.
Run time	< 20 s/mm	- Oriented start up
Set force	> 120N	- Forced service
Maximal stroke	6 min	- Summer operation
Target value display	5 LEDs	
Operating temperature	0°C to +50°C	
Dimensions	82 x 50 x 65 mm	

Design

white

Order no.

TX502

PU

1



IP54

Valve drive 230 V

Operating voltage	230 V~
Frequency	0 ... 60 Hz
Power consumption	1.8 W
Running time	45 s /mm
Stroke	4 mm
Operating temperature	+0 ... +60 °C
Medium temperature	max. 0 ... 100 °C
Pre-assembled cables	≈ 1 m
Dimensions (W x H x D)	44 x 60 x 61 mm

- valve drives closed in de-energized state
- thermoelectric mode of operation
- with state indication (opened or closed)
- with overheating protection
- with anti-dismantling protection
- pluggable connection cable
- for plug-in cover

Suitable for	Order no.	Page
Valve adapter for valve drive	7590 00 7.	137
Heating actuator 6gang RMD 230 V	TYF646T	136
Heating actuator 230 V flush-mounted	TYB641A	139

Neutral conductor necessary!

Order valve adapter separately.



Design	Order no.	PU
polar white	7590 00 76	1



IP54

Valve drive 24 V AC/DC

Operating voltage	24 V~/=
Frequency	50/60 Hz
Power consumption	1.8 W
Running time	45 s /mm
Stroke	4 mm
Operating temperature	+0 ... +60 °C
Medium temperature	max. 0 ... 100 °C
Line length	max. 200 m
Pre-assembled cables	≈ 1 m
Dimensions (W x H x D)	44 x 60 x 61 mm

- valve drives closed in de-energized state
- thermoelectric mode of operation
- with state indication (opened or closed)
- with overheating protection
- with anti-dismantling protection
- pluggable connection cable
- for plug-in cover

Suitable for	Order no.	Page
Heating actuator 6 channels	TX206H	139
Valve adapter for valve drive	7590 00 7 ..	137

Order valve adapter separately.



Design	Order no.	PU
polar white	7590 00 77	1



Valve adapter for valve drive

Cap nut (M x L)	M30 x 1.5 mm
Metric thread	M30

Suitable for	Order no.	Page
Valve drive 230 V	7590 00 76	137
Valve drive 24 V AC/DC	7590 00 77	137

More valve adapters upon request.

Design	Order no.	PU
grey, VA10, Dumser/Simplex/Beulco (from 2005)	7590 00 72	1
dark grey, VA50, Cazzaniga/Honeywell & Braukmann/ Landis & Gyr/Frese/Reich (distributor)/KaMo	7590 00 73	1
light grey, VA80, Comap/Empur/Heimeier/Herb/IVAR/ MNG/Onda/Oventrop/Schlösser/Strawa/TA/Thermot	7590 00 75	1
polar white, VA78, flange for Danfoss valves, type: RA	7590 00 74	1

Analogue actuators



Analogue actuator 4gang RMD

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 green/red status LED (operation/fault)
- with red programming LED
- channels can be adjusted independently
- with programming button
- expandable with 4gang analogue actuator module
- bus connection via connecting terminal
- initial status via status- and/or switch object evaluable
- with 4 independant analogue outputs
- cyclic supervision of the outputs
- with screw terminals
- with system interface for analogue actuator module

Suitable for	Order no.	Page
Power supply 24 V AC RMD	ST312	120
optional		
Analogue actuator module 4gang RMD	TYF684A	138

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



Analogue actuator module 4gang RMD

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)
- as extension for analogue actuator 4gang
- with 4 independant analogue outputs
- cyclic supervision of the outputs
- with screw terminals
- with system plug for connection to the analogue actuator system interface

Suitable for	Order no.	Page
Analogue actuator 4gang RMD	TYF684	138

Output signals according to DIN IEC 381

Design	Order no.	PU
light grey	TYF684A	1

Actuators, flush/surface-mounted



Heating actuator 230 V flush-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	≈ 20 cm with 2 x 1,5 mm ²
Cable length, bus + inputs (extendable to max. 5 m)	≈ 33 cm
Dimensions (Ø x H)	53 x 28 mm

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

Suitable for Valve drive 230 V	Order no. 7590 00 76	Page 137
Design light grey	Order no. TYB641A	PU 1



Heating actuator 6 channels

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 failure
- 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

Suitable for Valve drive 24 V AC/DC	Order no. 7590 00 77	Page 137
Design grey, 6gang Triac	Order no. TX206H	PU 1

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 supply	142
Couplers	143
Data interfaces	144
Accessories	145



Power supplies

- With integral choke
- Short-circuit and overload protection
- The "OK" indicator lights up in normal working mode
- The "I>I_{max}" 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 mm ²

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 mm ²

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 mm ²

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 mm ²

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

light grey

Order no.

TXA116

PU

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

light grey

Order no.

TYF130

PU

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

Router IP/KNX

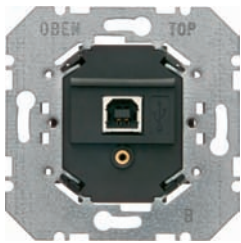
Order no.

TH210

PU

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

Design	Suitable for KNX data interface USB flush-mounted	Order no.	Page
		7504 00 04	144
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	- with 4 plug-in terminals 4pole
length	214 mm	- self-adhesive
For DIN rail with depth	7.5 mm	
Width of rail mounted device (RMD)	12 TE	

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	- to protect against dirt contamination and interference voltage
length	240 mm	
divisible into	0.5 TE-steps	
Width of rail mounted device (RMD)	13.5 TE	

Design	Order no.	PU
light grey	7500 00 04	5



Connecting terminal

Operating temperature	-5 ... +45 °C	- 2pole
Conductor Ø	0.6 ... 0.8 mm	- for the bus connection of the units
Number of conductors	2 x 4	- polarization red + black -
Dimensions (L x W x H)	10.2 x 11.5 x 10 mm	- 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 mm ² , 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

Hager Electro S.A.S.
132 Boulevard d'Europe B.P.3
67215 Obernai Cedex
France

Tel: + (33) 88 49 50 50
Fax: + (33) 88 49 51 44
www.hager.com

Hager Middle East FZE
P.O. Box 61056
Jebel Ali Free Zone, Dubai
United Arab Emirates

Tel: + (971) 4 8836 364
Fax: + (971) 4 8837 993
www.hager.ae

Hager Electro B.V.
Saudi Arabia Branch
7361, Ibn Kuthaier Street,
King Abdul Aziz,
Unit No. 1, Riyadh, 12233-4230
Kingdom of Saudi Arabia

Tel: + (966) 11 2924 541
Fax: + (966) 11 2923 744
Email: info@hager.sa
www.hager.ae

Hager Electro B.V.
1S, 6th Floor, Building No.66756
Street No. 220 (Zone 24)
B Ring Road, Doha
Qatar

Tel/Fax: + (974) 4 4418707
Email: jayan@hager.ae
www.hager.ae

