easy
Smart Home
Made simples

Intelligent home automation
for new buildings and building upgrades

hager

Smart solutions you can trust

easy

Intelligent home solutions are in demand – More and more potential home builders and home owners dream of a “smart home”. With **'easy'**, the intelligent home automation system from Hager, you can make your customers’ dreams a reality. More easily, quickly and efficiently than ever before. Thanks to innovative technology and intuitive programming. No specialist knowledge or training required.

'easy' is the quickest and simplest way of making your customers’ dream of an intelligent home a reality – and expands your business area into the future. This brochure guides you step by step towards your goal and offers lots of useful tips – from initial planning to the finished project. And while we’re talking about “finished”, with 'easy' you can be finished in no time at all without ever actually being truly finished: the system is always open for new requirements and future developments.

easy

install

From bus wiring to wireless networking. With high-performance actuators for switching, lighting, shading and dimming. With highly sensitive temperature, weather and motion sensors. **From page 16.**

visualise

On request: automatic generation of visuals via domovea. Mobile operation on your tablet or smartphone, at home or while you’re out and about. **From page 30.**

plan

From seminars at Hager to project support on-site. From control functions in your room to control elements on the wall. From the planning app to straightforward ordering.
From page 8.

configure

Four steps and you’re done: really simple thanks to the 'easy' app. No system requirements, no licenses. One finger, one tablet, and just a few hours – and you’re done!
From page 24.

expand

Flexible adjustment in line with the customers’ wishes. Simple reprogramming. Needs-based system expansion.
From page 36.

Your benefits at a glance

All building functions

Light/blinds controller, room temperature controller or away-from-home switch – 'easy' interlinks all building functions and enables time, random and scenario controllers.

Simple configuration

In four steps and just a few hours: on your tablet PC, iPad or smartphone via the 'easy' app and the new TXA100 commissioning tool. No special devices or expensive ETS software.

Automatic visualization

On the basis of all the 'easy' data created, domovea uses the TJA450 server to automatically generate an intuitive operator interface – with the complete building structure, individual rooms, switching functions and plain-text labelling. This extends the control features to all connected computers, laptops, tablets and smartphones.

Many control options

From simple to elegant: via KNX BA buttons, tactile sensors or room temperature controllers. All buttons are in the individual Berker switch design.

'easy' goes far above and beyond the possibilities of standard electrical installations, and also requires less time, know-how and cost than traditional ETS-programmed KNX installations. Hager's intelligent home automation system is ideal for all family homes and apartments with high comfort requirements. Ideal for new buildings. Practical for modernisation projects.

Secure remote access

domovea enables remote access at any time via a secure Internet portal – e.g. so that you can increase the room temperature before you arrive home. In addition, remote access to 'easy' also makes it simple for electrical installation engineers to program customer requirements flexibly and from anywhere.

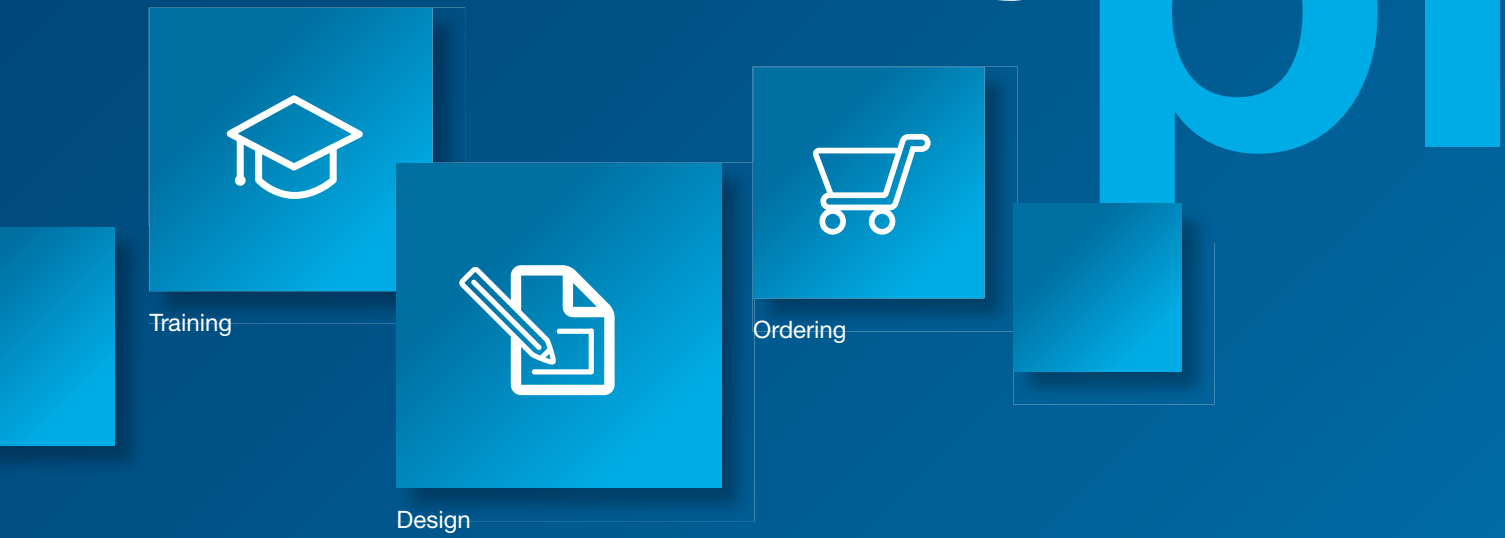
Tried-and-tested standard

'easy' is based on the international KNX standard. For your customers, this means maximum flexibility and future security.
Find out more on page 40.

High level of expandability

Up to 255 wired devices can be interlinked in an 'easy' installation. In addition, another 255 KNX wireless products from Hager and Berker can be integrated using a media coupler.

easy



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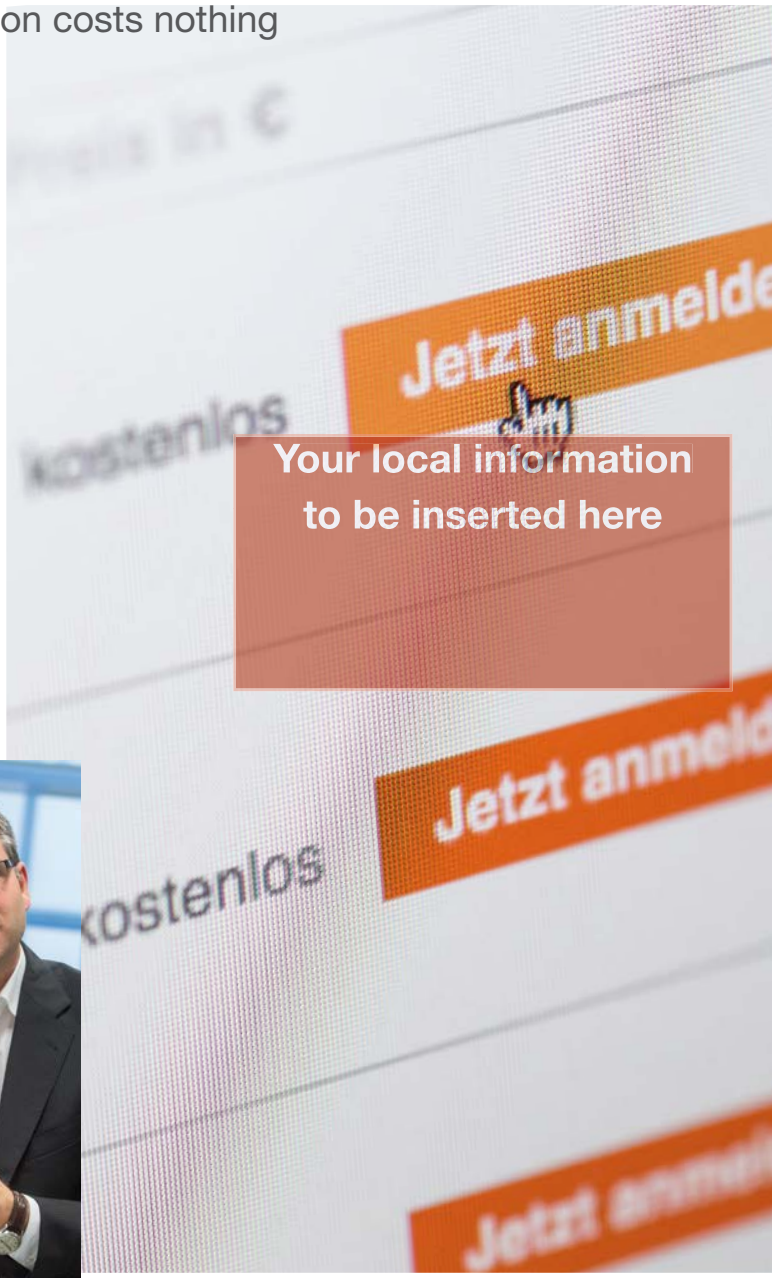
You don’t have to be an expert to use **'easy'**. Any electrical installation engineer can install it without needing much prior knowledge. We help right from the very first planning step through to the finished product: short seminars tell you everything you need to know about commissioning. Online services keep you up to date. Planning apps help you to pre-configure the intelligent home. If necessary, our field service team can visit you on site.

Seminars and online services

Good training is the basis of good planning. But instead of making you sit down all day and listen like at school, we prefer to accelerate your progress: after just one seminar day, you're ready to use 'easy'. Registration costs nothing more than the click of a mouse.



Seminars
Regional seminars, one-day

Hager Vertriebsgesellschaft's training and information centre makes it simple for you to satisfy your thirst for knowledge: regional 'easy' seminars are held all year round in our eleven Technical Service Centres. The one-day seminars last just six hours and are free to attend. Find your nearest location and a suitable date.

Advanced seminars, two-day

Two-day 'easy' seminars are held at regular intervals in our training centres in Blieskastel and Ottfingen.

Online services
Web-based training

Our Web-Based Training (WBT) programme gives you even more flexibility: here, you can familiarise yourself over a period of your choosing with all aspects of 'easy'. Learn the basics when you want, where you want and how you want – it's really 'easy'!

Knowledge updates

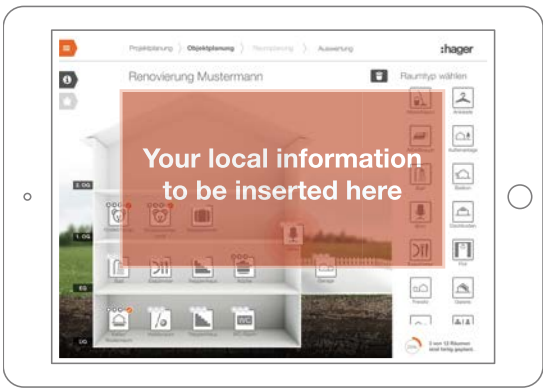
Thanks to a range of useful online services, you can refresh your 'easy' knowledge whenever you want – whether via e-learning programmes, smart lessons, podcasts or software updates. Get yourself back up to date in just a few minutes.

Tip

- register now for the next 'easy' seminar: **hager.de/seminare**
- All online services can be found under **hager.de**

On the wall.
On the screen.
On-site.

The more effectively you plan in advance, the easier you make it for your customers to control their future smart home. We support you with sophisticated online tools, a systematic operating concept and excellent advice from specialists.

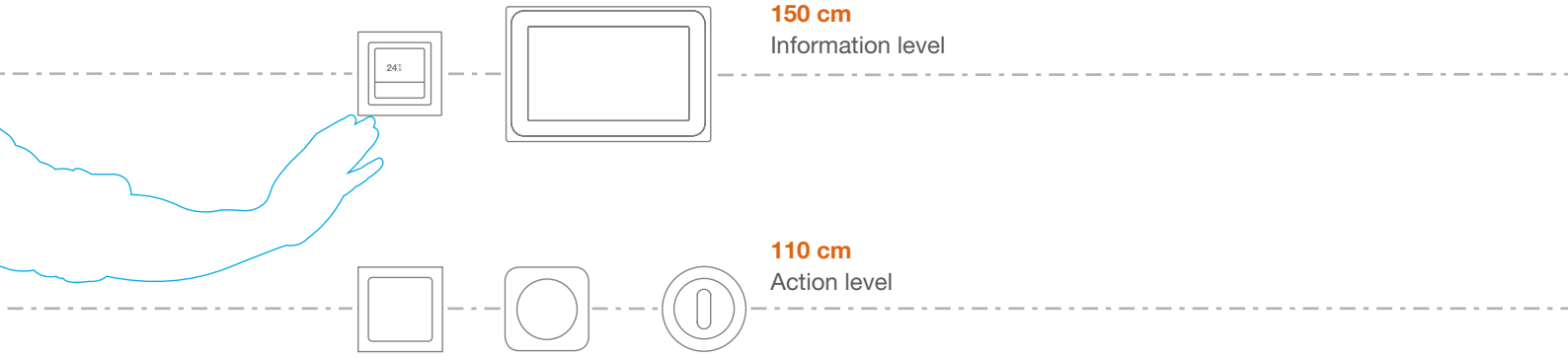


Planning functions – with the PlusPlan app
The PlusPlan app offers you optimal support in equipping an intelligent home with solutions from Hager, Berker and Elcom. This allows you to equip the entire home exactly as you wish with a range of intelligent functions. With no annoying slips of paper – simply drag and drop. In the subsequent IQ check, PlusPlan suggests additional functions until the desired building IQ is reached.

Laden im App Store

PlusPlan for iOS (from iPad 2) can be downloaded for free from the iTunes store or from hager.de/plusplan.

Set installation heights
Once you have defined the functions, it’s time to look at the controls. With Berker and Hager, you have a huge range of solutions at your fingertips: from simple push buttons, through innovative room controllers to the ultimate touch panel. It's the right mix that counts: in the busiest points in your home like the living room or hallway, a touch panel is best with visualisation functions at information level (1.50 m). In other rooms, the BA button is a better choice. We can help you to put together a comprehensive, well-thought-out and cost-efficient package for your customers.



Rapid assistance on-site
Our field service team will be happy to visit you on-site and give you a personal introduction to the world of 'easy'. Alternatively, you can visit one of our Technical Service Centres for an up-close demonstration of the system. We have eleven TSCs throughout Germany – in all regions – where we offer regular information events.
Our technical application support experts will be happy to answer any technical questions or queries you may have concerning all aspects of building automation – give them a call on **06842 945-9705**. If necessary, our field service team can assist you in implementing your smart home project on-site.

Find. Order. Go!

X = 'easy' from Hager

You can identify 'easy' actuators from Hager by the “X” that appears as the second character in the order number. A “Y” in this same position designates our ETS actuators with full KNX functionality. Thanks to their ETS application, all 'easy' products can also be integrated in ETS projects.

80 = 'easy' from Berker

You can identify Berker sensors with 'easy' functionality by the number “80” in the order number. This means that you can see straight away which Berker products are 'easy'-capable.

Open a new chapter

You can quickly identify all 'easy' products from Hager and Berker in the “KNX 'easy'” section in the Berker catalogue “Switch programmes & building automation 2016/2017” in print and online issues.

And now it’s time to place your order. Here, too, we make life simple for you thanks to the unique numbering system used in all of our catalogues and databases. You only have to remember one letter – “X” – and two numbers – “80”.

TX100B

TX100B becomes TXA100

The old TX100B programming device has been replaced by the new TXA100 commissioning tool. At its core is the TJA665 configuration server. Existing TX100B projects can be imported in full to the 'easy' software for further processing. Likewise, all products that used to be programmed with the TX100B can be integrated in 'easy' installations.

TXA100 commissioning tool

TJA665 configuration server

Tip

It’s your choice:

- Order the TXA100 commissioning tool and use it for all commissioning processes.
- Order the TJA665 configuration server separately and install it securely in your customers’ central technical system. Then, all you need for configuration is your tablet and Wi-Fi access.

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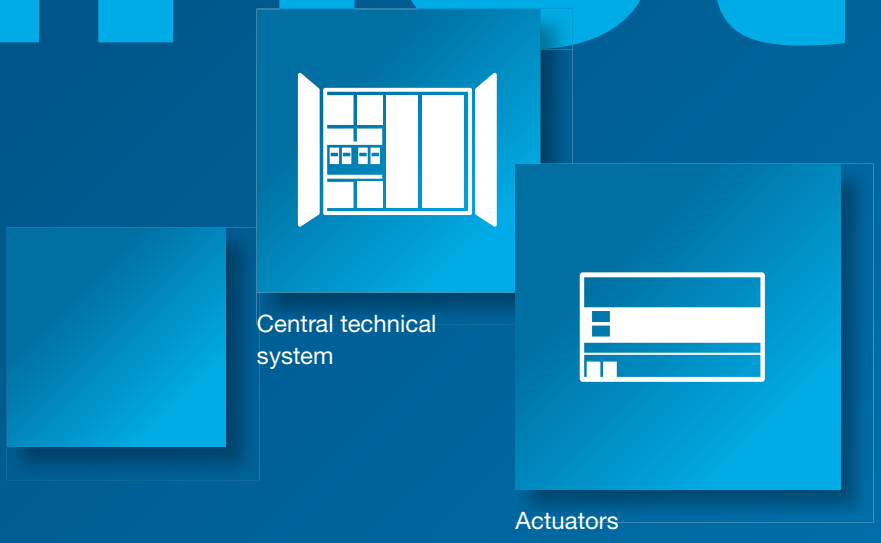

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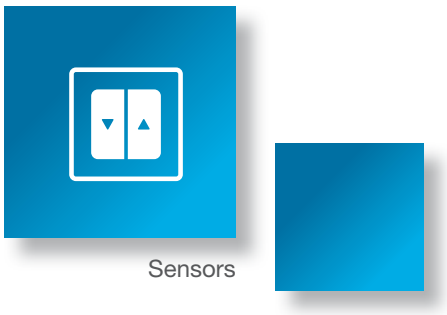


Sensors

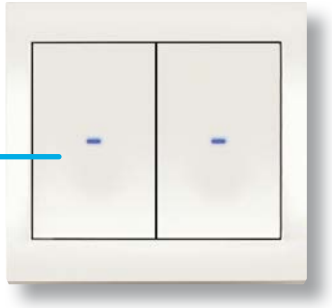
'easy' saves you the agony of choice. Now, you no longer have to spend too much time thinking about which devices to install in the central technical system. Because we've thought of everything already. The result is pleasingly manageable: as few actuators as necessary, as many channels for each actuator as possible in order to ensure high power density. This saves space in your meter cabinet, saves time during installation and saves costs for your customers.

Install 'easy'.

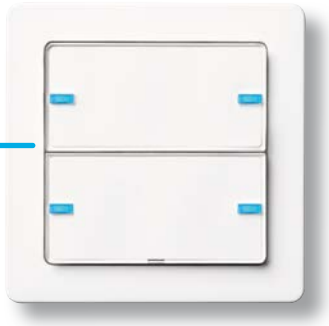
Use.
Connect.
Distribute.

The central technical system is both the heart and the brains of every smart home. This is where you can find all the switching actuators that convert control commands to actions. The wall-mounted sensors are the control devices. The human body has neural pathways – the intelligent home has bus lines, which are laid adjacent to the standard electricity cables. The bus lines normally take the form of a KNX twisted-pair line (KNX TP) that supplies all of the bus participants with data and the required operating voltage (30 V DC).

KNX twisted pair, 30 V DC

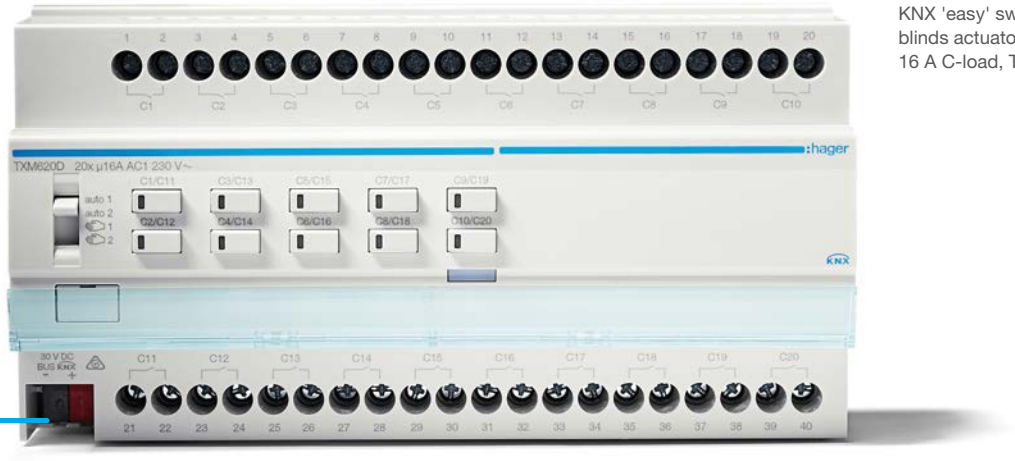


Berker tactile sensor module,
2-way, 80142170 (BA button)



Berker tactile sensor, 2-way,
80142329

With the bus into every room
'easy' switching actuators are connected via bus lines to the tactile sensors in the different rooms. You have the choice here between basic KNX BA buttons, high-end KNX tactile sensors with LED illumination or touch panels with attractive domovea visualisation (from page 30).



KNX 'easy' switching/
blinds actuator, 20/10-way,
16 A C-load, TXM620D

One element – many functions
The new 'easy' switching actuators are recognisable by their light-grey buttons, which allow you to manually control individual channels. An LED indicates the status. The 'easy' programming key, which is also fitted with an LED, allows you to check the bus voltage. The wide label field with a transparent cover ensures clear labelling.

More channels – fewer modules
Thanks to the high output capacity, smaller smart home projects can be implemented with fewer 'easy' actuators. Two 20-way switching actuators and one 12-way blinds actuator (see the next page) are usually sufficient for equipping a bungalow with intelligent actuator technology. Once you have installed the system, you now need to program it. Firstly, in manual mode on the device itself, you can switch the outputs to make sure that they are working properly.

Install 'easy'.

The actuators at a glance

KNX 'easy' switching/blinds actuator, 20/10-way, 16 A C-load, TXM620D

9 switching / blinds actuators

'easy' offers nine switching/blinds actuators with between 4 and 20 outputs. The best thing is that they take up just 4 to 10 space units (PLEs) on the top hat rail. 'easy' switching actuators are available as 4-way actuators with 16 A C-load; as 6-, 8- and 10-way actuators with 10 A and 16 A C-load; and as 16- and 20-way actuators with 16 A C-load.

4 roller shutters / blinds actuators

To control the motors for your roller shutters and blinds, you have the choice of four different 'easy' actuators with 4, 8 and 12 outputs. A 12-way actuator is sufficient, for example, for controlling all the blinds in a small bungalow. Depending on the rated voltage of the motors for your roller shutters and blinds, the 4-, 8- and 12-way actuators can be used for 230 V DC drives and a 4-way actuator for 24 V DC drives.

KNX 'easy' roller shutters / blinds actuator, 12-way, 230 V, TXM632C

KNX 'easy' universal dimming actuator
4x 300 W, TXA664A

4 universal dimming actuators

The new 'easy' universal dimming actuators are suitable for all dimmable LED or energy-saving lamps as well as incandescent, HV halogen and NV halogen lamps with a conventional or electronic transformer. Up to 64 lighting scenarios with different start-up times can be configured for each channel. All dimming actuators are equipped with autoDetect and easyDetect: autoDetect automatically detects the connected load type and adjusts the dimming mode accordingly.
With easyDetect, the dimming range can also be adjusted by pressing a button on the dimming actuator or on an external sensor. 'easy' universal dimming actuators are available as 1-way, 3-way or 4-way actuators.

3 in-wall switching/ blinds actuators

'easy' actuators can also be installed in a distributed configuration, directly where the elements they control are located – for example, under windows or next to doors. For this purpose, we offer three in-wall inserts that can be connected with either light or blind buttons or window or signal contacts. The new in-wall switching actuators are available as 1-way and 2-way actuators and additionally as 2-way actuators with two binary outputs.

KNX 'easy' switching/blinds actuator,
2-/1-way + 2 inputs, in-wall, TXB692F

The sensors at a glance

The level of intelligence of a smart home is demonstrated by how sensitively it reacts to interior and exterior influences. Sensors detect events within the building, convert these to messages and send them to the actuators in the central technical system, which then initiates the required actions. Sensors can be seen as the “sensory organs” of an intelligent home. Ideally, they will also appeal to the senses of your customers through their design – for example, take a look at this small selection from the world of 'easy' sensors.

Berker KNX room temperature controller with/without room controller
Intuitive operation with an attractive design: you can call up a whole range of different building functions by simply swiping and tapping the sensor strips – with the room controller in addition to temperature control: e.g. lighting, blinds or scenario control. With this solution, you can simultaneously “swipe” the competition aside: Berker is currently the only manufacturer offering this control concept.

- Attractive 1.93“ TFT colour display with up to 11 menu pages (for room controller only)
- Integrated temperature sensor plus option for connecting external temperature sensor
- 9 languages, selectable on the controller or via the communication object

Tip

Combine the high-end sensors at busy locations in your home with less expensive KNX BA buttons in the other rooms. This means that you can put together a price- and performance-optimised package for your customers.

Berker KNX BA buttons
Looks like a switch, but can do a lot more. And before you even start using it, it will help you to reduce purchasing costs: available as either a 1-way button for two control commands or a 2-way button for four control commands. With integrated temperature sensor and variable-colour LED as status and orientation light.

KNX weather station with GPS
The TXE530 weather station with a GPS antenna measures precipitation, temperature, wind speed and sunlight. In combination with this, various shading and heat protection functions – e.g. positions and slat tracking – can be configured for your comfort.

KNX motion sensors
'easy' offers a wide range of motion sensors. In addition to bus-wired interior motion sensors, the range also offers wireless exterior motion sensors, which can be integrated in the 'easy' installation using media couplers, e.g.:
- TRE530 (pictured): wireless AP motion sensor Solar, IP55, voltage supplied via solar cells
- TRE600: wireless exterior motion sensor, IP55, with energy-efficient LED spotlight
- Both of these exterior motion sensors are equipped with an 'easy'-capable quicklink wireless connection
(see page 38)

Berker KNX tactile sensors
Sense meets sensory awareness: the 1-way to 4-way Berker KNX tactile sensors allow your customers to access entire scenarios and logics. Different RGB mixed colours can be set for the integrated LEDs. In addition to the integrated temperature sensor, a second sensor can, if necessary, be connected to the bottom section (e.g for the underfloor heating). The integrated buzzer sounds distinctly when you activate it via the 'easy' configuration to locate the product. Available in Berker design lines S, B, Q, K and R.

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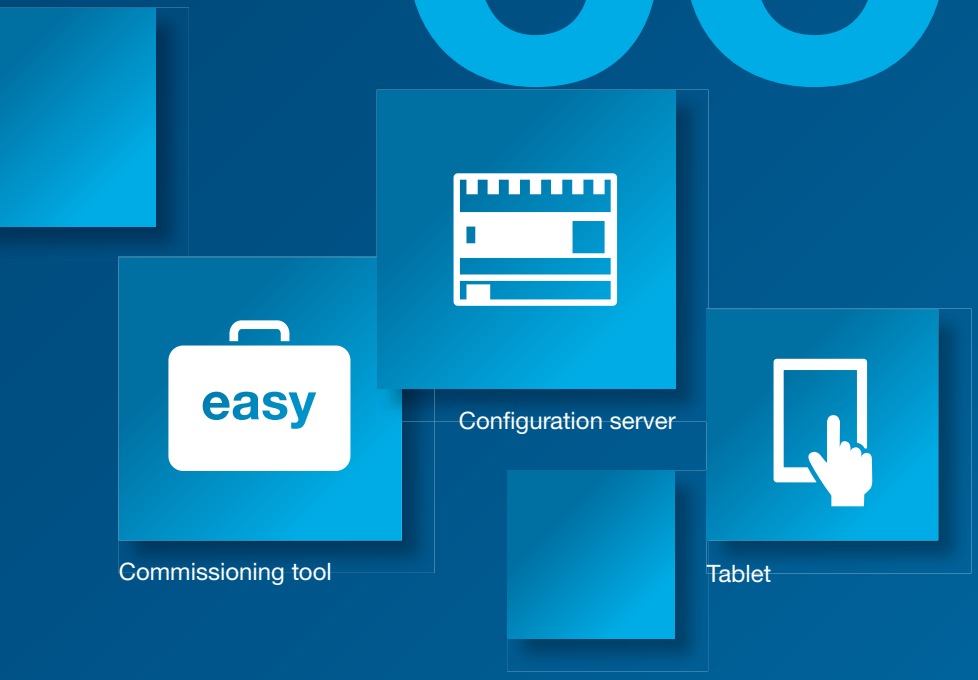


gure

You can’t get more intuitive: once you have installed and wired all of the actuators and sensors, **easy** makes your smart home available on your tablet. All you have to do is establish a wireless connection between your device and the new commissioning tool and off you go. After just a few hours, the complete system configuration is in place.

easy to configure

New: TXA100

The new TXA100* commissioning tool ensures that you are well connected – whether wired or wireless: the KNX bus line allows you to connect to the actuators in the meter cabinet. Using an ethernet port, you can connect to the local IP network and then, with your wireless LAN, to your tablet, smartphone or laptop. And now you're ready to start configuration.

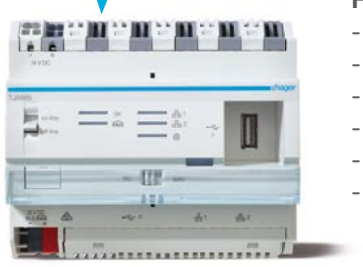
With the bus to the central technical system
The TXA100 commissioning tool is connected to the central technical system via a bus terminal. Alternatively, you can permanently install the TJA665 configuration server in your customers' meter cabinets (an integrated network connection is required for this). This saves time and effort in the event of future system changes. Tech-savvy customers can even make any changes themselves (e.g. integrating a wireless hand-held transmitter with user-defined functions).

*TXA100 replaces the old TX100B programming tool.

It's got everything you need – the TXA100 commissioning tool
The configuration toolbox contains everything you need for commissioning your 'easy' installation as well as for system changes and extensions:
- KNX connection
- Ethernet port for local IP network
- Wi-Fi adapter
- TJA665 configuration server
- TXA114 voltage supply
- Storage compartment for cables, adapters etc.

Wi-Fi to your tablet
The Wi-Fi adapter allows you to establish a connection with your tablet or smartphone. The configuration software reliably guides you through the entire programming procedure – without prescribing a fixed programming sequence.

TXA100 commissioning tool



TJA665 configuration server

Highly flexible – the configuration server
- Can be used in the toolbox or meter cabinet
- Can be used for configuring 'easy' products from Hager and Berker
- Bus connection and ethernet ports for the local IP network
- Compatible with iOS 8, Android 4.4
- Compatible with IE11, Chrome, Firefox and Safari web browsers
- Status LEDs for voltage supply, KNX communication, network connection and lots more

easy to configure

Four steps and you’re done

'easy' allows you to configure KNX systems intuitively on your iOS, Android or Windows tablet.* The large display gives you a clear overview of your project. Import all system components via the search function and clearly label them. There is no fixed programming sequence here. Flexibility in choosing your location, too: you can either carry out all the configuration steps directly on-site, or you can import the on-site KNX products, connect to them from the comfort of your office and then export the configuration back to the customer system. Really easy!

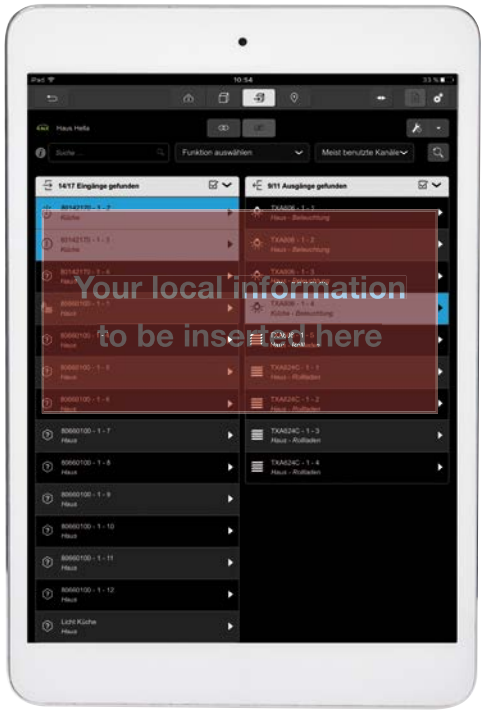
01 Import

As soon as you have created a new project, choose the “Start search” function: all the 'easy' products set up in your system as well as their inputs and outputs are imported and listed according to number. The software distinguishes between wired and wireless products. You can now check whether all the 'easy' products have been detected.

*Compatible with iOS 8, Android 4.4 and Windows 8.1t operating systems.

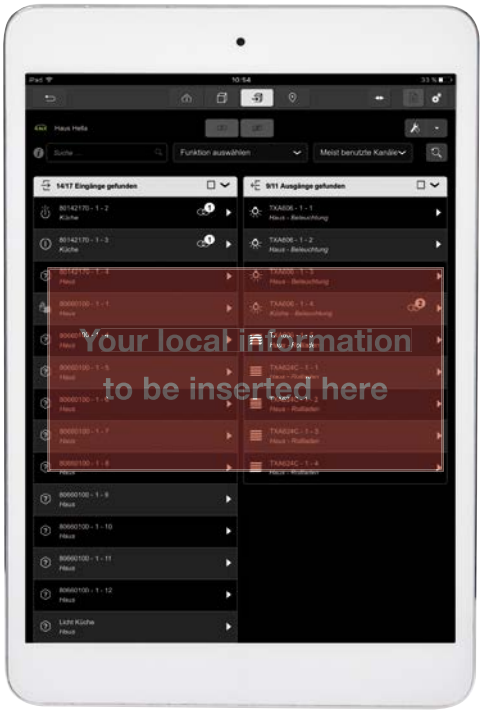
02
Label

No abbreviations, no codes – 'easy' uses plain language: using simple-to-understand language, first create the building by labelling all rooms separately and assigning them to their respective floors. Now label all the 'easy' products and all of their inputs and outputs. Next, define the individual functions and their parameters and assign the inputs and outputs to the rooms that you have just created. Note: when you label the rooms as described above, these labels are the ones that will also be used in the domovea visualisation system, if installed.



03
Link

Using the touch function, you can now interlink the required inputs and outputs. You can link multiple inputs and outputs simultaneously.
A filter allows you to create links – e.g. for group switches – quickly and easily. Linking takes place automatically in the background. A special symbol shows when a link has been successfully established.



04
Operate

Once everything has been successfully linked, you can now operate the inputs and outputs. This allows you to check in real time whether your configuration works. Defective links can be rectified with a touch, and any necessary changes can be implemented immediately, whether on-site or via remote access – quickly and easily. Once configuration is complete, you can print out all the project documentation as reference for you or your customers.

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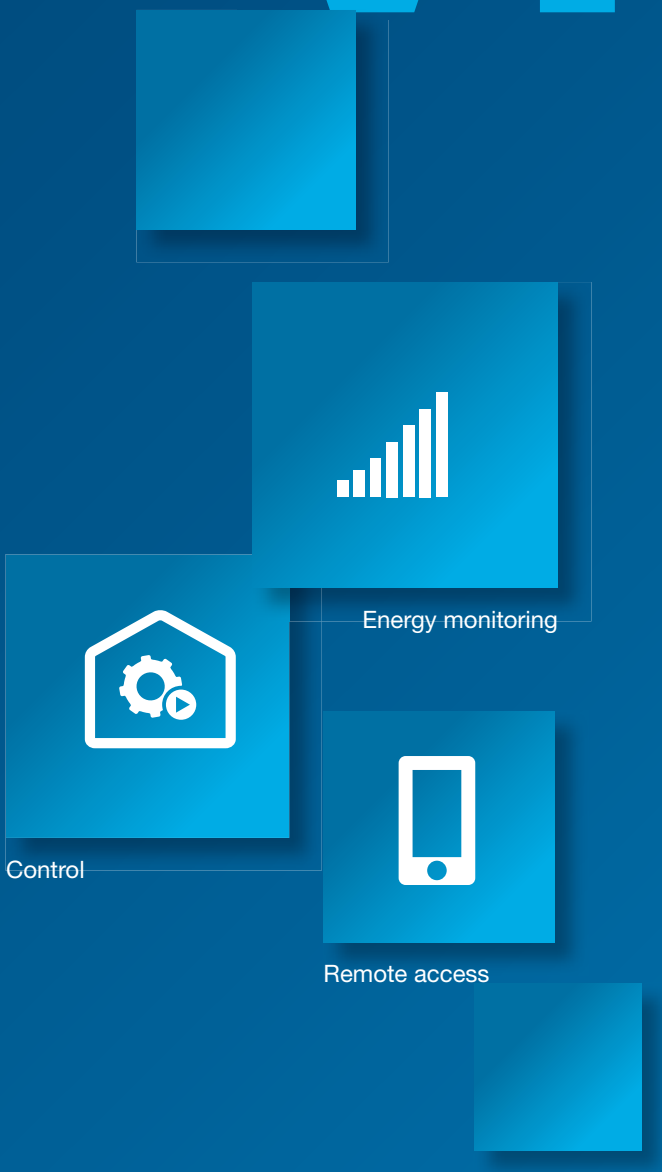


alise

The more intelligent the smart home, the more intuitive it should be to manage. To help you with this, you can request the domovea visualisation software from Hager. The user interface is automatically generated on the basis of all the 'easy' data entered – with the complete building structure, all rooms, control functions and plain-text labelling. This not only saves you a second configuration step, but also allows you to put together an even more attractive complete package for your customers.

easy to visualise

Configure Export. Impress.

01

easy to configure

As soon as you have interlinked all inputs and outputs, you can export the 'easy' configuration to domovea. All the rooms, control functions, parameters and plain-text labels you have created are transferred one to one.

02

easy to export

For synchronisation, the TXA100 commissioning tool / TJA665 configuration server is connected to the TJA450 domovea server in the same home network: all the data is then exported automatically. Alternatively, the entire 'easy' configuration can be exported to the domovea server (pictured below) on a USB stick.

03

easy to operate

domovea can be controlled via either your PC, laptop, tablet or smartphone – easily and comfortably anywhere in the house or remotely via a secure Internet portal. The visualisation software also allows you to make further system changes – for example, integrating IP cameras. The software also allows your customers to upload their own background images to give their user interface an even more personal touch.

01

TJA450 domovea server with USB connection

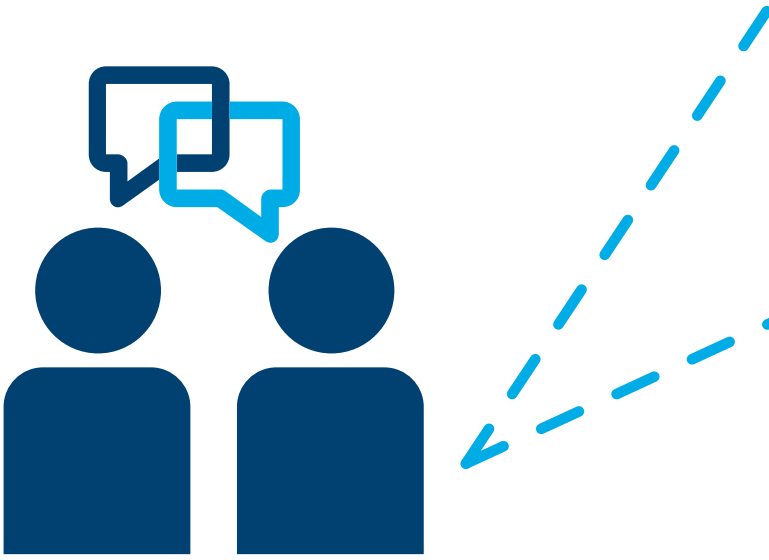
domovea automatically turns your 'easy' configuration into an attractive user interface – and your customers into passionate smart home owners. This visualisation software turns the intelligent home into something truly visible and tangible: thanks to touch functions with that modern “Apple” look, flexible access from almost anywhere and a range of customisation options.

02

03

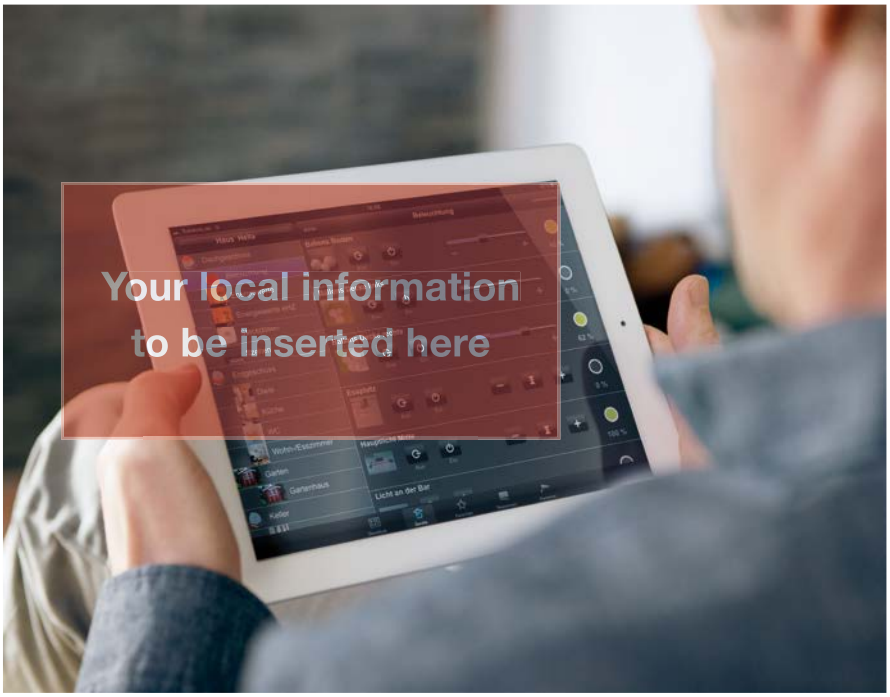
Document. Explain. Operate.

Have you finished installing and configuring **easy**? All you have to do now is explain to your customers how to use it. And that’s every bit as simple too – after all, 'easy' is really intuitive, especially when you use the domovea visualisation software.



Explain and teach
If your customer wasn’t already watching over your shoulder when you were installing the system, you can now take them step by step through their home and explain all the different switching elements and control functions.
We recommend you use the printed project documentation, which your customer can then keep. After just a couple of walkabouts, your customers will be as familiar with the 'easy' system as they are with ordinary light switches.

Automatic document creation
Once you have finished configuration, you can use the 'easy' app to create and print out all of the project documentation. In this your customers can find all the rooms, electrical functions and controls in a clear, simple-to-understand form.



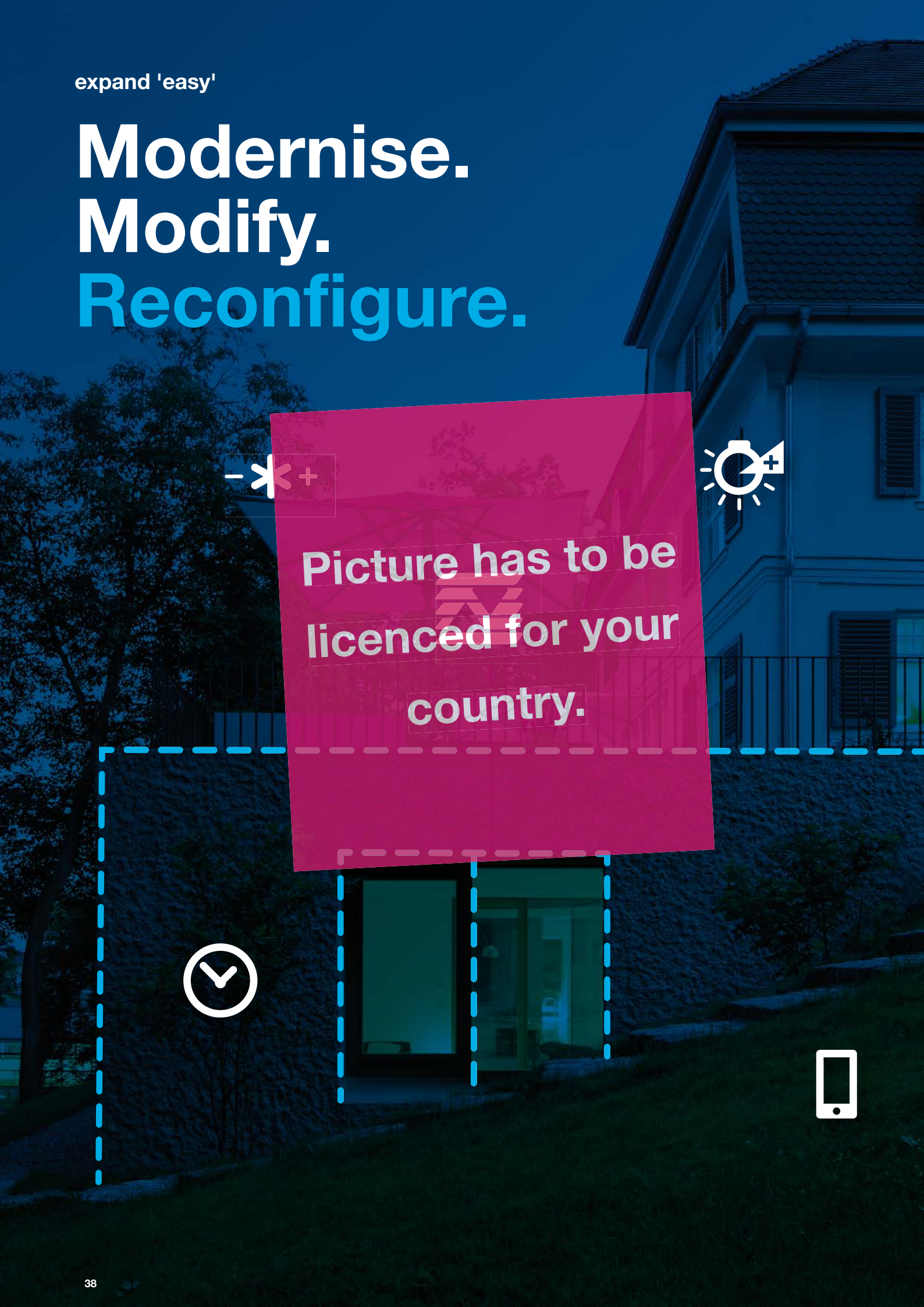
Intuitive visualisation and operation
The quickest and easiest way for your customers to get to grips with their intelligent home automation system is with the domovea visualisation software (see pages 30–33). In domovea, all the floors and rooms are clearly presented and the installed functions can be accessed via self-explanatory icons – simply by tapping the touchscreen. Elegance and modernity are the watchwords here. Simply 'easy'!

easy exp

and

A sign of intelligence is one’s ability to adapt to changing circumstances. And that applies not only to us, but also to the four walls within which we live: a family of three can become a family of five. A family of five becomes a family of two when the children fly the nest. The children’s nursery becomes the teen’s bedroom, which in turn becomes a home office – and so on. The intelligent home flexibly adapts to the changing needs of its inhabitants, learns their customs and habits and evolves in line with their needs. The best news: 'easy' evolves too.

Modernise.
Modify.
Reconfigure.

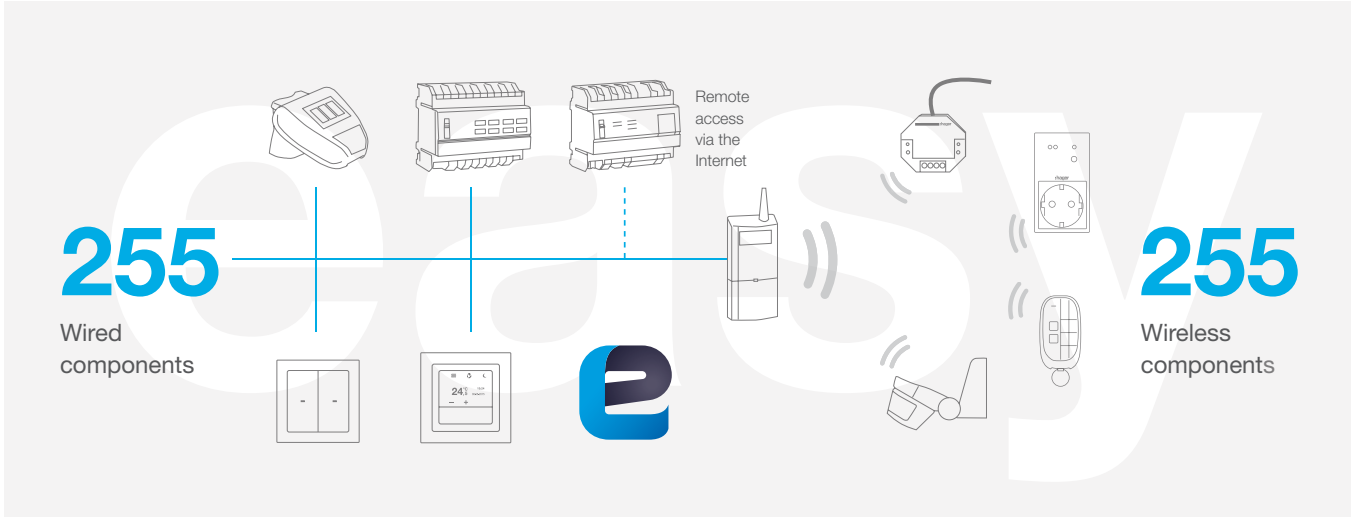


An awning over the veranda? A weather station on the roof? A scenario controller for garden lighting? Thanks to 'easy', the adaptiveness of a smart home is almost unlimited. Existing configurations can simply be reprogrammed; new devices can be connected in just a few clicks; and wireless modules allow more remote areas to be integrated with no special installation work.

Reconfiguration made simple
The 'easy' configuration interface is designed in the form of a classic app. In other words, all rooms, devices and functions are clearly presented and all connections are intuitively understandable. And reprogramming is every bit as intuitive as well, and can be done with just a few clicks on your tablet, laptop or smartphone. System expansions are child's play, too: new bus participants are instantly detected by the software and can be reconfigured in real time. To do so, simply follow the four steps described on pages 28 and 29 – and follow your customers' requirements, too.

Remote reconfiguration
Configuration changes can be made not only physically on the system itself, but also from anywhere in the world. Simply access the system via the Internet and make the necessary changes – just as easily as if you were there in your customers' homes with your tablet. Quickly, easily and without the need to travel long distances.

Expand 'easy' – wired or wireless
Up to 255 wired devices can be interlinked in an 'easy' installation.
In addition, another 255 wireless products from Hager and Berker can be integrated using a media coupler. That's a total of 510 components – and that's going to keep us ahead of the competition for some time yet!



Our KNX offering at a glance

Some providers of smart home solutions deploy proprietary – that is, self-contained – systems. In contrast, Hager uses the established KNX standard throughout. All of our intelligent building automation systems speak the same “language” and interact intuitively. This means that they can be flexibly combined and expanded – and you can guarantee your customers maximum “future proofing” of their system. Only Hager offers this level of comprehensive service.

More participants
Self-contained systems can accommodate only a few participants, often no more than 60. This is too few for big houses and big ideas! Since 'easy' is based on the KNX standard, the potential number of participants is increased fourfold: 64 bus participants (TLNs) can be connected on each line. Three line amplifiers can be installed to extend lines, resulting in three additional line segments likewise offering up to 64 participants.
This means: 4 x 64 = 256 – or 255, because the “zero” also counts.

quicklink wireless components
But that’s not all: the same number of participants can also be implemented with quicklink wireless components from Hager and Berker because quicklink also “speaks” KNX. All quicklink devices can be integrated in the bus system via media couplers and configured using the 'easy' software. This is ideal if you want to change or extend systems in existing buildings or single-room solutions. Physical installation measures such as the laying of new KNX twisted-pair lines are not necessary (see page 18).

ETS high-end solutions
Another benefit is that every 'easy' configuration can be fully imported to the ETS software and so converted into more complex KNX systems. With around 40% of ETS functionality, 'easy' actuators cover around 80% of all ETS applications, but cost around 30% less. This makes 'easy' actuators a viable proposition for cost-sensitive projects for functional buildings, too.

Hager proposes a compatible KNX system offering for the most varied applications:

- **quicklink** wireless solutions for individual rooms and expansions
- **easy** complete solutions for residential buildings
- **ETS** high-end solutions for residential and functional buildings

Order overview. Technology.

KNX 'easy'

TXA100

KNX 'easy' commissioning tool

Set containing:
- Configuration server, order no. TJA665
- Voltage supply 30 V DC + 24 V DC, order no. TXA114
- Wi-Fi access point
- KNX bus connection
- RJ45 connection cable

Features and characteristics:
- Transportable case with complete set for commissioning KNX installations in 'easy' mode
- Selector switch for online/offline operation
- with green and red status LED for LAN status, operational readiness, KNX status and gateway connection
- RJ45 port for LAN connection
- With 2 USB sockets, type B, USB 2.0-capable
- For connection to a 230 V AC plug socket
- With two RJ45 sockets

Note:
Knowledge of network technology is required for commissioning.
The commissioning tool is designed as a complete set for commissioning the 'easy' system.

Designation	PU	Order no.
KNX 'easy' commissioning tool	1	**TXA100**

TJA665

KNX 'easy' configuration server

Operating voltage via bus:	21 to 32 V=
Auxiliary voltage:	24 V=
Ethernet transfer rate:	max. 2 x 100/1000 Mbit/s
Operating temperature:	+0 to +45°C
Conductor cross-section (flexible):	0.75 to 2.5 mm^2
Conductor cross-section (rigid):	0.75 to 2.5 mm^2

Features and characteristics:
- configuration tool for commissioning KNX installations in 'easy' mode
- selector switch for online/offline operation
- with green and red status LED for LAN status, operational readiness, KNX status and gateway connection
- voltage supply via PoE or 24 V DC
- 2 RJ45 ports for LAN connection
- with 2 USB sockets, type B, USB 2.0-capable
- large label field
- with integrated bus coupler
- bus connection via connecting terminal
- with QuickConnect plug-in terminals

Note:
Knowledge of network technology is required for commissioning.

Designation	PLE	PU	Order no.
KNX 'easy' configuration server	6	1	**TJA665**

TXA111

Voltage supply

Designation	PLE	PU	Order no.
Voltage supply 1 output, 1 reactor, 320 mA	4	1	**TXA111**
Voltage supply 1 output, 1 reactor, 640 mA	4	1	**TXA112**
Voltage supply 1 output, 1 reactor, 320 mA + 24 V DC + 640 mA	4	1	**TXA114**
Voltage supply 2 outputs, 2 reactors, 2 x 320 mA	4	1	**TXA116**
Voltage supply, 24 V DC, 1 A	4	1	**TGA200**

Line/area coupler

Operating voltage via bus: 21 to 32 V=
Operating temperature: -5 to +45°C
Dimensions (W x H x D): 36 x 90 x 70 mm

Features and characteristics:
- can be used as cable amplifier
- with 2 yellow data traffic LEDs for higher- and lower-level cable
- with green operating LED, red programming LED and red diagnostics LED
- with illuminated programming button
- bus connection via connecting terminal
- cable connection via connecting terminal


TYF130

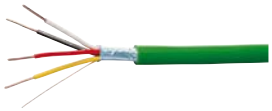
Designation	PLE	PU	Order no.
Line/area coupler	2	1	**TYF130**

KNX connecting terminal, 2-pole


TG008

Designation	Colour	PU	Order no.
KNX connecting terminal, 2-pole	Red/black	50	**TG008**
KNX connecting terminal, 2-pole	Yellow/white	50	**TG025**

KNX system cable


TG018

Designation	PU	Order no.
KNX bus cable Y(ST)Y, 2 x 2 x 0.8, green, 100 m	1	**TG018**
KNX bus cable Y(ST)Y, 2 x 2 x 0.8, green, 500 m	1	**TG019**
KNX bus cable Y(ST)Y, 2x2x0.8, halogen-free, green, halogen-free, 100 m	1	**TG060**
KNX bus cable Y(ST)Y, 2x2x0.8, halogen-free, green, halogen-free, 500 m	1	**TG061**

QuickConnect bridges


TG200A

Designation	Colour	PU	Order no.
QuickConnect bridges, 50 items	Black	1	**TG200A**
QuickConnect bridges, 50 items	Grey	1	**TG200B**
QuickConnect bridges, 50 items	Brown	1	**TG200C**

KNX overvoltage protection, 2-pole

TG029

Designation	PU	Order no.
KNX overvoltage protection, 2-pole	1	**TG029**

TJA450

domovea server including software

Operating voltage via bus:	21 to 32 V=
Auxiliary voltage:	24 V=
Current consumption (operation):	150 mA
Power consumption (operation):	1.5 W
Main memory (RAM):	128 MB
Graphics memory:	20 MB
Processor:	400 MHz

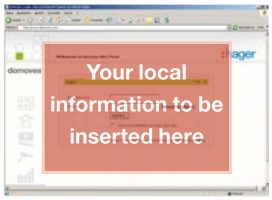
Features and characteristics:
- for controlling and visualising e.g. blinds, lights, radiators, fans, alarm system, sensors
- creation of max. 50 sequences from different actions
- user interface can be customised for each room using different background images
- KNX server for supplying up to 30 visualisation clients simultaneously with KNX data
- configuration tool for implementing IP settings and parameters
- with configuration and client software on USB stick
- with status LEDs for LAN status, operational readiness and connection status to web portal
- creation of light scenarios
- creation of measured value archives and energy consumption visualisation with KNX energy meters
- management of up to 30 users with different access rights
- software update via USB interface on device
- integration of max. 10 network cameras
- RJ45 port for LAN connection
- bus connection via connecting terminal
- with plug-in terminals
- large label field
- selector switch for online/offline operation

Note:
Central operation and visualisation unit for KNX installations via client software
Knowledge of network technology is required for commissioning.

System requirements: Windows XP, Windows VISTA, Windows 7, Windows 8, Windows 10 (32- or 64-bit)

Optional	**Order no.**
domovea license for remote access	TJ550
Voltage supply 24 V DC REG	TGA200

Designation	PLE	PU	Order no.
domovea server including software REG	6	1	**TJA450**



TJ550

domovea license for remote access

Features and characteristics:
- for remotely controlling the KNX building system via domovea
- licence data on USB stick

Note:
Licence for activating remote access to a domovea server via the Hager portal
Global remote access to a KNX system via the domovea software portal and domovea server

Suitable for	**Order no.**
domovea software with USB/KNX interface	TJ701A
domovea server including software	TJA450

Designation	PU	Order no.
domovea license for remote access	1	**TJ550**

TJA451

domovea system package

Set containing:
- domovea server REG with integrated remote access (TJA450 + TJ550)
- voltage supply 24 V DC REG, order no. TGA200
- USB stick with software

Designation	PLE	PU	Order no.
domovea system package REG	6+4	1	**TJA451**

In-wall bus coupler

80040001

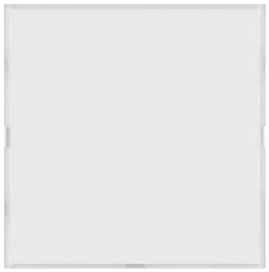
Operating voltage via bus:	21 to 32 V=
Operating temperature:	-5 to +45°C
Installation depth:	32 mm

Features and characteristics:
- external temperature sensor
- with integrated buzzer for acoustic identification
- with programming button and red programming LED
- bus connection via connecting terminal
- with dust protection flap for user interface (AST)
- with spreader claws

Suitable for Optional	Order no.
External temperature sensor AP IP55	EK088
Temperature sensor (10 kΩ)	EK090
Protective cover	7500 00 07

Designation	PU	Order no.
In-wall bus coupler, KNX	1	**80040001**
In-wall bus coupler, KNX, set of 10	1	**80040011**

Tactile sensor, 1-way


80161780

Current consumption KNX:	max. 20 mA
Operating temperature:	-5 to +45°C

Features and characteristics:
- label field
- with 2 RGB status LEDs per rocker switch
- with white operating LED, controllable
- up to 64 scenarios can be switched
- button function: including switching, dimming, roller shutters / blinds, time switch, forced control, operating mode switch-over
- the status LED colour for the device can be standardised
- integrated temperature sensor with measured value output
- function for manual over-ride of already triggered automatic functions
- with protection against dismantling
- for in-wall bus coupler

Note:
For use only in combination with in-wall bus coupler (order no.: 8004 00 x1)!

Designation	Colour	Label field insert	PU	Order no.
Berker S.1/B.3/B.7 KNX	White and polar white	52.3 x 52.8 mm (W x H)	1	**80161780**
Berker S.1/B.3/B.7 KNX	Anthracite and aluminium	52.3 x 52.8 mm (W x H)	1	**80161785**
Berker Q.1/Q.3 KNX	Polar white	56.4 x 56.4 mm (W x H)	1	**80141329**
Berker Q.1/Q.3 KNX	Anthracite	56.4 x 56.4 mm (W x H)	1	**80141326**
Berker Q.1/Q.3 KNX	Aluminium	56.4 x 56.4 mm (W x H)	1	**80141321**
Berker K.1/K.5 KNX	Polar white	66.8 x 52.8 mm (W x H)	1	**80161770**
Berker K.1/K.5 KNX	Anthracite	66.8 x 52.8 mm (W x H)	1	**80161776**
Berker K.1/K.5 KNX	Aluminium	66.8 x 52.8 mm (W x H)	1	**80161774**
Berker K.1/K.5 KNX	Stainless steel	66.8 x 52.8 mm (W x H)	1	**80161773**

80161869

Tactile sensor, 1-way

Current consumption KNX: max. 20 mA
Operating temperature: -5 to +45°C

Features and characteristics:
- with 2 RGB status LEDs per rocker switch
- with white operating LED, controllable
- up to 64 scenarios can be switched
- button function: including switching, dimming, roller shutters / blinds, time switch, forced control, operating mode switch-over
- the status LED colour for the device can be standardised
- integrated temperature sensor with measured value output
- function for manual over-ride of already triggered automatic functions
- for in-wall bus coupler
- with protection against dismantling

Designation	Colour	PU	Order no.
Berker R.1/R.3 KNX	Polar white, shiny	1	**80161869**
Berker R.1/R.3 KNX	Black, shiny	1	**80161865**

80162780

Tactile sensor, 2-way

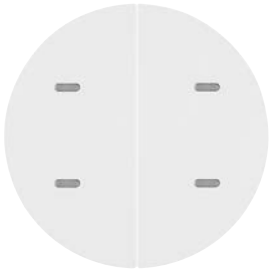
Current consumption KNX: max. 20 mA
Operating temperature: -5 to +45°C

Features and characteristics:
- label field
- with 2 RGB status LEDs per rocker switch
- with white operating LED, controllable
- up to 64 scenarios can be switched
- button function: including switching, dimming, roller shutters / blinds, time switch, forced control, operating mode switch-over
- the status LED colour for the device can be standardised
- integrated temperature sensor with measured value output
- function for manual over-ride of already triggered automatic functions
- for in-wall bus coupler
- with protection against dismantling

Note:
For use only in combination with in-wall bus coupler (order no.: 8004 00 x1)!

Designation	Colour	Label field insert	PU	Order no.
Berker S.1/B.3/B.7 KNX	White and polar white	52.3 x 24.9 mm (W x H)	1	**80162780**
Berker S.1/B.3/B.7 KNX	Anthracite and aluminium	52.3 x 24.9 mm (W x H)	1	**80162785**
Berker Q.1/Q.3 KNX	Polar white	56.4 x 26.8 mm (W x H)	1	**80142329**
Berker Q.1/Q.3 KNX	Anthracite	56.4 x 26.8 mm (W x H)	1	**80142326**
Berker Q.1/Q.3 KNX	Aluminium	56.4 x 26.8 mm (W x H)	1	**80142321**
Berker K.1/K.5 KNX	Polar white	66.8 x 25 mm (W x H)	1	**80162770**
Berker K.1/K.5 KNX	Anthracite	66.8 x 25 mm (W x H)	1	**80162776**
Berker K.1/K.5 KNX	Aluminium	66.8 x 25 mm (W x H)	1	**80162774**
Berker K.1/K.5 KNX	Stainless steel	66.8 x 25 mm (W x H)	1	**80162773**

Tactile sensor, 2-way



80162869

Current consumption KNX: max. 20 mA
Operating temperature: -5 to +45°C

Features and characteristics:
- with 2 RGB status LEDs per rocker switch
- with white operating LED, controllable
- up to 64 scenarios can be switched
- button function: including switching, dimming, roller shutters / blinds, time switch, forced control, operating mode switch-over
- the status LED colour for the device can be standardised
- integrated temperature sensor with measured value output
- function for manual over-ride of already triggered automatic functions
- for in-wall bus coupler
- with protection against dismantling

Note:
For use only in combination with in-wall bus coupler (order no.: 8004 00 x1)!

Designation	Colour	PU	Order no.
Berker R.1/R.3 KNX	Polar white, shiny	1	**80162869**
Berker R.1/R.3 KNX	Black, shiny	1	**80162865**

Tactile sensor, 3-way

80163780

Current consumption KNX: max. 20 mA
Operating temperature: -5 to +45°C

Features and characteristics:
- label fields
- with 2 RGB status LEDs per rocker switch
- with white operating LED, controllable
- up to 64 scenarios can be switched
- button function: including switching, dimming, roller shutters / blinds, time switch, forced control, operating mode switch-over
- the status LED colour for the device can be standardised
- integrated temperature sensor with measured value output
- function for manual over-ride of already triggered automatic functions
- for in-wall bus coupler
- with protection against dismantling

Note:
For use only in combination with in-wall bus coupler (order no.: 8004 00 x1)!

Designation	Colour	Label field insert	PU	Order no.
Berker S.1/B.3/B.7 KNX	White and polar white	52.3 x 15.6 mm (W x H)	1	**80163780**
Berker S.1/B.3/B.7 KNX	Anthracite and aluminium	52.3 x 15.6 mm (W x H)	1	**80163785**
Berker Q.1/Q.3 KNX	Polar white	56.4 x 17 mm (W x H)	1	**80143329**
Berker Q.1/Q.3 KNX	Anthracite	56.4 x 17 mm (W x H)	1	**80143326**
Berker Q.1/Q.3 KNX	Aluminium	56.4 x 17 mm (W x H)	1	**80143321**
Berker K.1/K.5 KNX	Polar white	66.8 x 15.7 mm (W x H)	1	**80163770**
Berker K.1/K.5 KNX	Anthracite	66.8 x 15.7 mm (W x H)	1	**80163776**
Berker K.1/K.5 KNX	Aluminium	66.8 x 15.7 mm (W x H)	1	**80163774**
Berker K.1/K.5 KNX	Stainless steel	66.8 x 15.7 mm (W x H)	1	**80163773**

80164780

Tactile sensor, 4-way

Current consumption KNX: max. 20 mA
Operating temperature: -5 to +45°C

Features and characteristics:
- label fields
- with 2 RGB status LEDs per rocker switch
- with white operating LED, controllable
- up to 64 scenarios can be switched
- button function: including switching, dimming, roller shutters / blinds, time switch, forced control, operating mode switch-over
- the status LED colour for the device can be standardised
- integrated temperature sensor with measured value output
- function for manual over-ride of already triggered automatic functions
- for in-wall bus coupler
- with protection against dismantling

Note:
For use only in combination with in-wall bus coupler (order no.: 8004 00 x1)!
In design lines S.1/B.x and K.x: for use only in combination with a frame with a large cut-out.

Designation	Colour	Label field insert	PU	Order no.
Berker S.1/B.3/B.7 KNX	White and polar white	52.3 x 15.6 mm (W x H)	1	**80164780**
Berker S.1/B.3/B.7 KNX	Anthracite and aluminium	52.3 x 15.6 mm (W x H)	1	**80164785**
Berker Q.1/Q.3 KNX	Polar white	56.4 x 17 mm (W x H)	1	**80144329**
Berker Q.1/Q.3 KNX	Anthracite	56.4 x 17 mm (W x H)	1	**80144326**
Berker Q.1/Q.3 KNX	Aluminium	56.4 x 17 mm (W x H)	1	**80144321**
Berker K.1/K.5 KNX	Polar white	66.8 x 15.7 mm (W x H)	1	**80164770**
Berker K.1/K.5 KNX	Anthracite	66.8 x 15.7 mm (W x H)	1	**80164776**
Berker K.1/K.5 KNX	Aluminium	66.8 x 15.7 mm (W x H)	1	**80164774**
Berker K.1/K.5 KNX	Stainless steel	66.8 x 15.7 mm (W x H)	1	**80164773**

Tactile sensor module, 1-way (BA button)

80141180

Operating voltage via bus:	21 to 32 V=
Current consumption:	10 mA
Operating temperature:	-5 to +45°C
Installation depth:	32 mm

Features and characteristics:
- with an RGB status LED, brightness and colour can be set
- button functions: including switching, dimming, roller shutters / blinds, operating mode switch-over, scenario, forced control
- up to 64 scenarios can be switched
- the status LED colour for the device can be standardised
- integrated temperature sensor with measured value output
- function for manual over-ride of already triggered automatic functions
- with integrated buzzer for acoustic identification
- with programming button and red programming LED
- with integrated bus coupler
- bus connection via connecting terminal
- with protection against dismantling

Suitable for	**Order no.**
Cover for tactile sensor module, 1-way	8096 02 ..
Optional	
Temperature sensor (10 kΩ)	EK090
External temperature sensor AP IP55	EK088

Designation	PU	Order no.
Berker S.1/B.3/B.7 KNX tactile sensor module, 1-way	1	**80141180**
Berker Q.1/Q.3, K.1/K.5 KNX tactile sensor module, 1-way	1	**80141170**

Cover for tactile sensor module, 1-way

80960289

Features and characteristics:
- with clear lens for RGB status display of tactile sensor module

Suitable for	**Order no.**
Tactile sensor module, 1-way	8014 11 ..

Designation	Colour	PU	Order no.
Berker S.1/B.3/B.7 KNX	White, shiny	1	**80960282**
Berker S.1/B.3/B.7 KNX	Polar white, shiny	1	**80960289**
Berker S.1/B.3/B.7 KNX	Polar white, matt	1	**80960299**
Berker S.1/B.3/B.7 KNX	Anthracite, matt	1	**80960285**
Berker S.1/B.3/B.7 KNX	Aluminium, matt, coated	1	**80960283**
Berker Q.1/Q.3 KNX	Polar white, velvet	1	**80960229**
Berker Q.1/Q.3 KNX	Anthracite, velvet, coated	1	**80960226**
Berker Q.1/Q.3 KNX	Aluminium, velvet, coated	1	**80960221**
Berker K.1/K.5 KNX	Polar white, shiny	1	**80960279**
Berker K.1/K.5 KNX	Anthracite, matt	1	**80960275**
Berker K.1/K.5 KNX	Aluminium, matt, coated	1	**80960271**
Berker K.1/K.5 KNX	Stainless steel, matt, coated	1	**80960273**

80142180

Tactile sensor module, 2-way (BA button)

Operating voltage via bus:	21 to 32 V=
Current consumption:	10 mA
Operating temperature:	-5 to +45°C
Installation depth:	32 mm

Features and characteristics:
- with two RGB status LEDs, brightness and colour can be set
- button functions: including switching, dimming, roller shutters / blin ds, operating mode switch-over, scenario, forced control
- up to 64 scenarios can be switched
- the status LED colour for the device can be standardised
- integrated temperature sensor with measured value output
- function for manual over-ride of already triggered automatic functions
- with integrated buzzer for acoustic identification
- with programming button and red programming LED
- with integrated bus coupler
- bus connection via connecting terminal
- with protection against dismantling

Suitable for	**Order no.**
Cover for tactile sensor module, 2-way	8096 03 ..
Optional	
Temperature sensor (10 kΩ)	EK090
External temperature sensor AP IP55	EK088

Designation	PU	Order no.
Berker S.1/B.3/B.7 KNX tactile sensor module, 2-way	1	**80142180**
Berker Q.1/Q.3, K.1/K.5 KNX tactile sensor module, 2-way	1	**80142170**

80960389

Cover for tactile sensor module, 2-way

Features and characteristics:
- with two clear lens for RGB status display on tactile sensor module

Suitable for	**Order no.**
Tactile sensor module, 2-way	8014 21 ..

Designation	Colour	PU	Order no.
Berker S.1/B.3/B.7 KNX	White, shiny	1	**80960382**
Berker S.1/B.3/B.7 KNX	Polar white, shiny	1	**80960389**
Berker S.1/B.3/B.7 KNX	Polar white, matt	1	**80960399**
Berker S.1/B.3/B.7 KNX	Anthracite, matt	1	**80960385**
Berker S.1/B.3/B.7 KNX	Aluminium, matt, coated	1	**80960383**
Berker Q.1/Q.3 KNX	Polar white, velvet	1	**80960329**
Berker Q.1/Q.3 KNX	Anthracite, velvet, coated	1	**80960326**
Berker Q.1/Q.3 KNX	Aluminium, velvet, coated	1	**80960321**
Berker K.1/K.5 KNX	Polar white, shiny	1	**80960379**
Berker K.1/K.5 KNX	Anthracite, matt	1	**80960375**
Berker K.1/K.5 KNX	Aluminium, matt, coated	1	**80960371**
Berker K.1/K.5 KNX	Stainless steel, matt, coated	1	**80960373**

KNX temperature controller

80141180

Operating voltage via bus:	21 to 32 V=
Auxiliary voltage:	24 V=
Energy efficiency class:	IV (2%)
TFT screen size:	1.93”
Operating temperature:	-5 to +45°C
Display dimensions (W x H):	38.3 x 30.3 mm
Installation depth:	32 mm

Features and characteristics:
- for individual room temperature control
- default control parameters for radiators / cooling elements
- choice of heating, cooling or heating/cooling operating modes
- choice of comfort, standby, night reduction or frost/heat protection via scenario
- choice of switching PI control (PWM) or switching 2-point control
- choice of following heating modes: hot water heating, underfloor heating hot water, electric heating, electric underfloor heating or split unit
- choice of following cooling modes: cooling ceiling, convector blower or split unit
- with key lock
- with holiday switching function
- with anti-frost function
- additional connection for external temperature sensor
- temperature measurement via internal, external temperature sensor or via specific o bjects and their averages
- temperature can be set for comfort, standby, night reduction
- operation via sensitive touchscreen
- TFT colour display with symbols
- for displaying and triggering actions
- display of operating mode, controller lockout, room/outside temperature, time
- screensaver
- time and date display
- menu guidance in DE / EN / FR / NL / IT / ES / PT / PL / DK / SV / FI / NO / TR
- bus connection via connecting terminal
- with spreader claws
- with protection against dismantling

Suitable for	**Order no.**
Cover for KNX temperature controller and room controller	8096 01 ..
KNX voltage supply 320 mA + 24 V DC, 640 mA REG	TXA114
Voltage supply 24 V DC REG	TGA200
Optional	
Temperature sensor (10 kΩ)	EK090
External temperature sensor AP IP55	EK088

Designation	PU	Order no.
KNX temperature controller	1	**80440100**

80660100

KNX room controller

Operating voltage via bus:	21 to 32 V=
Auxiliary voltage:	24 V=
Energy efficiency class:	IV (2%)
TFT screen size:	1.93"
Operating temperature:	-5 to +45°C
Display dimensions (W x H):	38.3 x 30.3 mm
Installation depth:	32 mm

Features and characteristics:
- 9 button functions: including switching, dimming, roller shutters / blinds, operating mode switch-over, scenario, forced control
- for individual room temperature control
- default control parameters for radiators / cooling elements
- choice of heating, cooling or heating/cooling operating modes
- choice of comfort, standby, night reduction or frost/heat protection via scenario
- choice of switching PI control (PWM) or switching 2-point control
- choice of following heating modes: hot water heating, underfloor heating hot water, electric heating, electric underfloor heating or split unit
- choice of following cooling modes: cooling ceiling, convector blower or split unit
- up to 64 scenarios can be switched
- with key lock
- with holiday switching function
- with anti-frost function
- function for manual over-ride of already triggered automatic functions
- additional connection for external temperature sensor
- temperature measurement via internal, external temperature sensor or via specific objects and their averages
- temperature can be set for comfort, standby, night reduction
- operation via sensitive touchscreen
- TFT colour display with symbols
- for displaying and triggering actions
- display of operating mode, controller lockout, room/outside temperature, time
- screensaver
- time and date display
- menu guidance in DE / EN / FR / NL / IT / ES / PT / PL / DK / SV / FI / NO / TR
- bus connection via connecting terminal
- with spreader claws

Suitable for	**Order no.**
Cover for KNX temperature controller and room controller	8096 01 ..
KNX voltage supply 320 mA + 24 V DC, 640 mA REG	TXA114
Voltage supply 24 V DC REG	TGA200
Optional	
Temperature sensor (10 kΩ)	EK090
External temperature sensor AP IP55	EK088

Designation	PU	Order no.
KNX room controller	1	**80660100**

80960189

Cover for KNX temperature controller and room controller

Designation	Colour	PU	Order no.
Berker S.1/B.3/B.7 KNX	White, shiny	1	**80960182**
Berker S.1/B.3/B.7 KNX	Polar white, shiny	1	**80960189**
Berker S.1/B.3/B.7 KNX	Polar white, matt	1	**80960180**
Berker S.1/B.3/B.7 KNX	Anthracite, matt	1	**80960185**
Berker S.1/B.3/B.7 KNX	Aluminium, matt, coated	1	**80960183**
Berker Q.1/Q.3 KNX	Polar white, velvet	1	**80960129**
Berker Q.1/Q.3 KNX	Anthracite, velvet, coated	1	**80960126**
Berker Q.1/Q.3 KNX	Aluminium, velvet, coated	1	**80960121**
Berker K.1/K.5 KNX	Polar white, shiny	1	**80960179**
Berker K.1/K.5 KNX	Anthracite, matt	1	**80960175**
Berker K.1/K.5 KNX	Aluminium, matt, coated	1	**80960171**
Berker K.1/K.5 KNX	Stainless steel, matt, coated	1	**80960173**

Android touch panel

WDI070

Power over Ethernet (PoE):	18 to 48 V=
Auxiliary voltage:	18 to 48 V=
Power consumption:	< 10 W
TFT screen size:	7", 10"
Luminosity:	300 cd/m^2
Ethernet transfer rate:	max. 10/100 Mbit/s
Processor:	1 GHz
Main memory (RAM):	512 MB
Operating temperature:	+5 to +45°C
Dimensions (W x H x D) 7":	189.7 x 125.7 x 48.3 mm
Dimensions (W x H x D) 10":	259.4 x 127.0 x 67.5 mm
Installation height 7":	12 mm
Installation height 10":	10 mm

Features and characteristics:
- status and operating panel with touch-sensitive, capacitive TFT colour display in 16:9 format, with multitouch operation
- for visualising the domovea software and displaying preconfigured functions, measured values and data
- 7" for vertical and horizontal domovea visualisation and 10" for horizontal only
- display illumination automatically adjustable via brightness sensor
- via domovea server connection to the KNX system
- operating system: OS Android 4.1
- apps available in the pre-installed Android launcher – without access to external apps
- integration of door communication functions in the domovea client or Elcom VideoFON client
- silent, durable convector cooling without fan
- RJ45 port for LAN connection
- microphone and speaker with echo suppression
- with adapter cable USB / mini USB type A
- with RJ45 connection kit comprising plug connector and patch cable
- mini USB 2.0 socket directly accessible on upper display edge, e.g. for external storage media or updates
- 2 rear-side USB 2.0 connections
- for in-wall and hollow-wall assembly
- for vertical and horizontal assembly 7"
- horizontal 10"

Note:
Without audio applications, the PoE supply as per IEEE 802.3af class 3 is sufficient.

Optional	**Order no.**
Voltage supply 24 V DC REG	TGA200
domovea server including software REG	TJA450
domovea system package REG	TJA451

Designation	PU	Order no.
7" Android	1	**WDI070**
10" Android	1	**WDI100**

WDI101

Touch panel 10”, Windows

Auxiliary voltage:	24 V=
Power consumption:	max. 20 W
TFT screen size:	10”, 16”
Luminosity 10”:	300 cd/m^2
Luminosity 16”:	220 cd/m^2
Ethernet transfer rate:	max. 1000 Mbit/s
Processor:	2 x 1 GHz
Main memory (RAM):	2 GB
Operating temperature:	+5 to +35°C
Dimensions (W x H x D) 10”:	259.4 x 177.0 x 67.5 mm
Dimensions (W x H x D) 16”:	377.4 x 231.8 x 66.4 mm
Installation height 10”:	10 mm
Installation height 16”:	11 mm
Internal memory 10”:	64 GB SSD
Internal memory 16”:	32 GB SSD

Features and characteristics:
- status and operating panel with touch-sensitive, capacitive TFT colour display in 16:9 format, with multitouch operation
- for visualising the domovea software via the PC client or other Windows-based applications for displaying preconfigured functions, measured values and data
- suitable for horizontal domovea visualisation
- display illumination automatically adjustable via brightness sensor
- operating system: Windows 7 embedded, on integrated PC
- integration of door communication functions in the Elcom VideoFON client
- silent, durable convector cooling without fan
- 2 RJ45 ports for LAN connection
- microphone and speaker with echo suppression
- with adapter cable USB / mini USB type A
- with RJ45 connection kit comprising plug connector and patch cable
- mini USB 2.0 socket directly accessible on upper display edge, e.g. for external storage media or updates
- 2 rear-side USB 2.0 connections
- for in-wall and hollow-wall assembly
- for vertical and horizontal assembly

Optional

Voltage supply 24 V DC REG	TGA200
domovea server including software REG	TJA450
domovea system package REG	TJA451

Designation	PU	Order no.
10”, Windows	1	**WDI101**
16”, Windows	1	**WDI161**

WDW070

In-wall housing

Designation	Colour	Dimensions (W x H x D): Hollow wall opening (W x H x D):	PU	Order no.
In-wall housing for WDI07x	Anthracite, coated	190 x 126 x 47 mm 182 x 117 x 47 mm	1	**WDW070**
In-wall housing for WDI10x	Anthracite, coated	260 x 177 x 64 mm 252 x 169 x 64 mm	1	**WDW100**
In-wall housing for WDI16x	Anthracite, coated	378 x 233 x 64 mm 370 x 225 x 64 mm	1	**WDW160**

WDW071

In-wall enclosure, flush with wall

Designation	Colour	Dimensions (W x H x D): Hollow wall opening (W x H x D):	PU	Order no.
In-wall housing for WDI07x flush with wall	Anthracite, coated	197.7 x 133.6 x 74 mm 197.7 x 133.6 x 74 mm	1	**WDW071**
In-wall housing for WDI10x flush with wall	Anthracite, coated	269 x 186 x 74 mm 269 x 186 x 74 mm	1	**WDW101**
In-wall housing for WDI16x flush with wall	Anthracite, coated	387 x 242 x 74 mm 387 x 242 x 74 mm	1	**WDW161**

KNX motion sensor module 1.1 m

80262180

Operating voltage via bus:	21 to 32 V=
Current consumption KNX:	max. 10 mA
Nominal installation height:	1.1 m
Delay time, adjustable:	10 s to 30 min
Response brightness, adjustable:	≈ 5 to 1000 lx, daytime operation
Angle of detection, adjustable:	45° to 90° on each side
Range of detection, rectangular:	≈ 12 x 16 m
Operating temperature:	-5 to +45°C

Features and characteristics:
- with button for automatic / permanently ON / permanently OFF
- operating mode display via status LED red/green/orange
- up to 64 scenarios can be switched
- motion sensor functions: switching, dimming, roller shutters / blinds, time switch
- additional channel for brightness-independent sensor operation
- with integrated bus coupler
- bus connection via connecting terminal
- with spreader claws
- with protection against dismantling
- with integrated temperature sensor

Note:
Automatic triggering of bus functions when motion is detected within the range of detection or manual control via integrated button.
Permanent, direct sunlight on the upwards-facing detection surface can cause the motion sensor to fail.
For indoor use only!

Suitable for	**Order no.**
Cover for KNX motion sensor module	8096 04 ..

Designation	PU	Order no.
Berker S.1/B.3/B.7 KNX motion sensor module 1.1 m	1	**80262180**
Berker Q.1/Q.3, K.1/K.5 KNX motion sensor module 1.1 m	1	**80262170**
Berker R.1/R.3 KNX motion sensor module 1.1 m	1	**80262160**

8026228

KNX motion sensor module 2.2 m

Operating voltage via bus:	21 to 32 V=
Current consumption KNX:	max. 10 mA
Nominal installation height:	2.2 m
Delay time, adjustable:	10 s to 30 min
Response brightness, adjustable:	≈ 5 to 1000 lx, daytime operation
Angle of detection, adjustable:	45° to 90° on each side
Range of detection, rectangular:	≈ 8 x 12 m
Operating temperature:	-5 to +45°C

Features and characteristics:
- with button for automatic / permanently ON / permanently OFF
- operating mode display via status LED red/green/orange
- up to 64 scenarios can be switched
- motion sensor functions: switching, dimming, roller shutters / blinds, time switch
- additional channel for brightness-independent sensor operation
- with integrated bus coupler
- bus connection via connecting terminal
- with spreader claws
- with protection against dismantling
- with integrated temperature sensor

Note:
Automatic triggering of bus functions when motion is detected within the range of detection or manual control via integrated button.
Permanent, direct sunlight on the upwards-facing detection surface can cause the motion sensor to fail.
For indoor use only!

Suitable for	**Order no.**
Cover for KNX motion sensor module	8096 04 ..

Designation	PU	Order no.
Berker S.1 /B.3/B.7 KNX motion sensor module 2.2 m	1	**80262280**
Berker Q.1/Q.3, K.1/K.5 KNX motion sensor module 2.2 m	1	**80262270**
Berker R.1/R.3 KNX motion sensor module 2.2 m	1	**80262260**

80960459

Cover for KNX motion sensor module

Suitable for	**Order no.**
KNX motion sensor module 1.1 m	8026 21 ..
KNX motion sensor module 2.2 m	8026 22 ..

Designation	Colour	PU	Order no.
Berker S.1/B.3/B.7	White, shiny	1	**80960452**
Berker S.1/B.3/B.7	Polar white, shiny	1	**80960459**
Berker S.1/B.3/B.7	Polar white, matt	1	**80960409**
Berker S.1/B.3/B.7	Anthracite, matt	1	**80960485**
Berker S.1/B.3/B.7	Aluminium, matt, coated	1	**80960483**
Berker Q.1/Q.3	Polar white, velvet	1	**80960429**
Berker Q.1/Q.3	Anthracite, velvet, coated	1	**80960426**
Berker Q.1/Q.3	Aluminium, velvet, coated	1	**80960421**
Berker K.1/K.5	Polar white, shiny	1	**80960479**
Berker K.1/K.5	Anthracite, matt	1	**80960475**
Berker K.1/K.5	Aluminium, matt, coated	1	**80960471**
Berker K.1/K.5	Stainless steel, matt, coated	1	**80960473**
Berker R.1/R.3	Polar white, shiny	1	**80960460**
Berker R.1/R.3	Black, shiny	1	**80960465**

KNX IR presence detector

TCC510S

IP41

Operating voltage via bus:	21 to 32 V=
Brightness measurement range:	5 to 1000 lx
Recommended installation height:	≈ 2.5 to 3.5 m
Delay time, adjustable:	≈ 1 min to 1 h
Angle of detection:	360°
Range of detection Ø, on floor:	≈ 7 m
Range of detection Ø, at desk height:	≈ 5 m
Operating temperature:	-10 to +45°C
Installation opening Ø:	60 to 63 mm
Dimensions (Ø x H):	78 x 70 mm

Features and characteristics:
- energy-saving thanks to presence-controlled and brightness-controlled light control
- multiple sensors can be interconnected to increase range of detection
- with potentiometer for setting response brightness and delay time without disassembly
- with programming button
- bus connection via connecting terminal
- with spring clips for ceiling installation

Suitable for	Order no.
IR configuration hand-held transmitter for presence detector	EE807
IR hand-held transmitter for presence detector	EE808
AP housing for presence detector	EEK005

Designation	Colour	PU	Order no.
KNX IR presence detector	Polar white, matt	1	**TCC510S**
AP housing for presence detector	Polar white, matt	1	**EEK005**

IR hand-held transmitter for presence detector

EE808

Battery lifetime [years]:	≈ 3.5 (CR2032)
Dimensions (L x W x H):	120 x 70 x 10 mm

Features and characteristics:
- with 4 function keys (lighting scenario call-up/save)
- with green “on” and red “off” key (ON/OFF, dimming function)
- additional acknowledgement LED for displaying IR transfer
- RC6 code

Designation	Colour	PU	Order no.
IR hand-held transmitter for presence detector	Black, matt	1	**EE808**

IR configuration hand-held transmitter for presence detector

EE807

Battery lifetime [years]	≈ 2.5 (CR2032)
Dimensions (L x W x H)	111 x 63 x 10 mm

Features and characteristics:
- 15 buttons with integrated status LED
- additional acknowledgement LED for displaying IR transfer
- 3 configuration areas for controller, switch-off delay, brightness threshold
- brightness threshold can be set manually, via default values or in teaching mode
- daylight, office, hallway brightness threshold default settings can be selected
- RC6 code
- 2 configuration memories for identical configuration of multiple presence detectors

Designation	Colour	PU	Order no.
IR configuration hand-held transmitter for presence detector	Black, matt	1	**EE807**

TXE530

IP44

KNX weather station with GPS

Operating voltage via bus:	21 to 32 V=
Auxiliary voltage:	24 V~/=
Rated current (including heating):	81 mA
Brightness measurement range:	0 to 150000 lx
Temperature measurement range, linear:	-30 to +80°C
Wind speed measurement range:	0 to 35 m/s
Precipitation (yes/no):	1-bit
Operating temperature:	-30 to +50°C
Dimensions (W x H x D):	96 x 77 x 118 mm
Weight:	≈ 170 g

Features and characteristics:
- with wind, precipitation, twilight, temperature and brightness sensors
- with automatic summertime/wintertime switch-over
- with heating
- with red programming LED
- for controlling shading systems on up to 4 façades
- simple commissioning thanks to predefined parameters
- predefined parameters for activation of heat protection function or heat generation function
- predefined periodic transmission behaviour for outside temperature, frost alarm, brightness, day/night mode, wind and rain alarms
- 3 predefined limit values for wind alarm
- bus connection via connecting terminal
- with plug-in terminals for voltage supply
- for wall and pole mounting
- with pipe clamps for pole attachment

Note:
For recording wind, precipitation, temperature and brightness and processing the signals
Ensure that the device is correctly aligned and free-standing.

Suitable for	**Order no.**
Articulated arm, large, for weather station KNX	TG35 ..
Safety transformer 12 to 24 V AC REG	ST312
KNX voltage supply 320 mA + 24 V DC, 640 mA	TXA114
Voltage supply 24 V DC REG	TGA200

Designation	Colour	PU	Order no.
KNX weather station with GPS AP	White, transparent	1	**TXE530**

TG353

Articulated arm, large, for weather station KNX

Length of wall arm: 400 mm

Features and characteristics:
- for mounting on walls, poles or beams
- with stainless-steel attachment screws
- powder-coated
- with adjustable articulated arm

Designation	Colour	PU	Order no.
Articulated arm, large, for weather station KNX	White, RAL 9016	1	**TG353**

TG354

Articulated arm, small, for weather station KNX

Features and characteristics:
- for flexible installation of weather station
- powder-coated

Designation	Colour	PU	Order no.
Articulated arm, small, for weather station KNX	Light grey	1	**TG354**

KNX week timer switch, 2-channel

TXA022

Operating voltage via bus:	21 to 32 V=
Reserve of lithium cell [years]:	≈ 5
Operating temperature:	+0 to +45°C
Conductor cross-section (flexible):	1.5 to 10 mm²
Conductor cross-section (rigid):	1 to 6 mm²

Features and characteristics:
- functions including switching, dimming, blinds, lighting scenarios, heating, operating modes, date, time
- LCD for commissioning
- with 5 manual operation buttons
- with programming button and red programming LED
- with programming key
- bus connection via connecting terminal

Suitable for	**Order no.**
Programming key for timer switches	EG005
Lock key for timer switches	EG004

Designation	PLE	PU	Order no.
Week timer switch, 2-channel	2	1	**TXA022**
Week timer switch, 2-channel, DCF-77	2	1	**TXA023**

Timer switch accessories

EG001

Designation	PU	Order no.
Radio receiver DCF77	1	**EG001**
Key adapter USB	1	**EG003U**
Lock key	1	**EG004**
Programming key	1	**EG005**
Storage compartment for programming key	1	**EG006**

KNX twilight switch, 6-channel

TXA025

Operating voltage via bus:	21 to 32 V=
Brightness measurement range, linear:	2 to 200 lx + 200 to 20000 lx
Operating temperature:	+0 to +45°C
Cable length:	max. 100 m
Conductor cross-section (flexible):	1 to 6 mm²
Conductor cross-section (rigid):	1 to 10 mm²

Features and characteristics:
- for switching, dimming and blinds functions
- manual operation can be activated via selector switch; simultaneous deactivation of KNX function
- brightness can be controlled via potentiometer
- six brightness limit values for independent activation of switching channels
- with 2 status LEDs
- with programming button and red programming LED
- bus connection via connecting terminal
- with screw-type terminals

Suitable for	**Order no.**
Brightness sensor EB	EE002
Brightness sensor AP	EE003

Designation	PLE	PU	Order no.
KNX twilight switch, 6-channel	2	1	**TXA025**
KNX twilight switch, 6-channel, with brightness sensor AP	2	1	**TXA026**
Brightness sensor AP, IP54		1	**EE003**
Brightness sensor installation, IP54		1	**EE002**

TE332

KNX transducer (energy meter)

Operating voltage:	230 V AC +10%/-15%
Frequency:	50/60 Hz
Operating voltage via bus:	21 to 32 V=
Current consumption KNX:	max. 15 mA
Measurement range:	0.2 to 90 A
Measurement tolerance:	5%, at 25°C
Operating temperature:	-5 to +45°C
Cable cross-section of connecting terminals, top:	0.75 to 2.5 mm^2
Cable cross-section of connecting terminals, bottom:	0.2 to 1.5 mm^2

Features and characteristics:
- recording the power/consumption data for individual phases for alternating and three-phase current
- recording the total power/consumption values
- flexible data acquisition by converter up to 90 A
- partial and overall metering for each acquisition process
- output of voltage and current on the bus
- dynamic mode (increased data transmission over a limited period of time)
- reset for partial metering per input
- overall power and overall energy consumption measurement
- power and energy consumption measurement per input
- total and partial metering per input
- tariff switch via 1- byte or 1-bit object
- with control LED on each channel
- with illuminated programming button
- connection length between T1/T2: max. 25 m
- 3 manual operation buttons for channel addressing
- with connecting terminal for outside temperature sensor
- with connecting terminal for tariff input (high/low)
- 3 connecting terminals for current converter
- with supply terminal
- with 2 connecting terminals of reference phases for meter channels 2 and 3
- bus connection via connecting terminal
- with plug-in terminals
- large label field

Suitable for	**Order no.**
Current converter 1850-1A	EK028

Designation	PLE	PU	Order no.
KNX transducer, without current converter	6	1	**TE331**
KNX transducer, with current converter (EK028)	6	1	**TE332**

EK028

Current converter 1850-1A

Transformation ratio:	CT 1850/5 A
Transformation ratio VT:	0.72/3 kV
Measurement range:	0.2 to 90 A
Prefabricated cable:	≈ 1 m
Cable cross-section (flexible):	0.5 mm^2

Suitable for	**Order no.**
KNX sensor	TE33 ..

Designation	PU	Order no.
Current converter 1850-1A	1	**EK028**

In-wall universal interface

TXB302

Operating voltage via bus:	21 to 32 V=
Input scanning voltage:	5 V on each channel
Operating temperature:	+0 to +45°C
Cable length:	max. 5 m
Dimensions (L x W x H):	38 x 35 x 12 mm

Features and characteristics:
- switching, dimming, blinds control, forced control, scenario, heating and timer switch functions
- with independent binary inputs for potential-free contacts
- for in-wall and hollow-wall assembly

Note:
For connecting potential-free contacts, e.g. switches, buttons, window contacts, sensor contacts, temperature controllers; for communication with KNX bus system.

Designation	PU	Order no.
Universal interface, 2-way, in-wall	1	**TXB302**
Universal interface, 4-way, in-wall	1	**TXB304**

Universal interface with LED outputs, in-wall

TXB322

Operating voltage via bus:	21 to 32 V=
Input scanning voltage:	5 V on each channel
Operating temperature:	+0 to +45°C
Cable length:	max. 5 m
Dimensions (L x W x H):	38 x 35 x 12 mm

Features and characteristics:
- switching, dimming, blinds control, forced control, scenario, heating and timer switch functions
- with independent binary inputs for potential-free contacts
- with user-definable outputs for LED control
- for in-wall and hollow-wall assembly

Note:
For connecting potential-free contacts, e.g. switches, buttons, window contacts, sensor contacts, temperature controllers; for communication with KNX bus system.

Suitable for	**Order no.**
LED kit, 4-way, for universal interfaces	TG308

Designation	PU	Order no.
Universal interface, 2-way, with 2 LED outputs, in-wall	1	**TXB322**
Universal interface, 4-way, with 4 LED outputs, in-wall	1	**TXB344**

LED kit, 4-way, for universal interfaces

TG308

Features and characteristics:
- for connecting to universal interfaces with LED outputs
- set including 4 (low-current) LEDs

Suitable for	**Order no.**	
Universal interface, 2-way, with 2 LED outputs	in-wall	TXB322
Universal interface, 4-way, with 4 LED outputs	in-wall	TXB344

Designation	PU	Order no.
LED kit, 4-way, for universal interfaces	1	**TG308**

TXA304

Binary input 230 V AC

Operating voltage via bus:	21 to 32 V=
Input voltage:	230 V~
Signal frequency:	50/60 Hz
Input cable length:	max. 100 m
Operating temperature:	+0 to +45°C
Conductor cross-section (rigid):	0.75 to 2.5 mm^2
Conductor cross-section (flexible):	0.75 to 2.5 mm^2

Features and characteristics:
- switching, dimming, blinds control, forced control, scenario, heating and timer switch functions
- with programming button and red programming LED
- manual operation can be activated via selector switch
- manual operation of each channel via button with integrated status LED; simultaneous locking of KNX function
- bus connection via connecting terminal
- suitable for different external conductors
- with QuickConnect plug-in terminals

Designation	PLE	PU	Order no.
4 independent binary inputs with separate neutral conductor, 4-way	4	1	**TXA304**
10 independent binary inputs with separate neutral conductor, 10-way	6	1	**TXA310**

TXA306

Binary input, 6-way, 24 V AC/DC - 230 V AC

Operating voltage via bus:	21 to 32 V=
Signal voltage:	potential-free, 24 to 230 V~/=
Input cable length:	max. 100 m
Operating temperature:	+0 to +45°C
Conductor cross-section (rigid):	0.75 to 2.5 mm^2
Conductor cross-section (flexible):	0.75 to 2.5 mm^2

Features and characteristics:
- switching, dimming, blinds control, forced control, scenario, heating and timer switch functions
- with 6 red status LEDs for displaying input statuses
- with programming button and red programming LED
- manual operation can be activated via selector switch
- manual operation of each channel via button with integrated status LED; simultaneous locking of KNX function
- bus connection via connecting terminal
- with 6 independent binary inputs with separate neutral conductor
- suitable for different external conductors
- with QuickConnect plug-in terminals

Designation	PLE	PU	Order no.
Binary input, 6-way	6	1	**TXA306**

Switching/blinds actuators KNX 'easy', 10A

TXA606B

Operating voltage via bus:	21 to 32 V=
Frequency:	50/60 Hz
Switching current at cos ϕ = 0.8:	max. 10 A
230 V LED lamps:	12 x 23 W
Energy-saving lamps:	12 x 23 W
230 V incandescent lamps:	1200 W
230 V halogen lamps:	1200 W
conventional transformers:	1200 W
electronic transformers:	1000 W
Fluorescent lamps:	
- non-compensated:	1000 W
- with EVG:	15 x 36 W
Operating temperature:	-5 to +45°C
Conductor cross-section (flexible):	0.75 to 2.5 mm^2
Conductor cross-section (rigid):	0.75 to 2.5 mm^2

Features and characteristics:
- for switching one independent load on each actuator channel or activating a blinds drive via two actuator channels
- user-definable mixed operation of drive and switching functions possible
- manual operation can be activated via selector switch; simultaneous deactivation of KNX function
- manual operation of each channel via button (single button operation)
- with illuminated programming button
- status LED integrated in the manual operation button
- with positioning function for blinds and slats
- with safety functions e.g. for wind, rain, alarm
- large label field
- suitable for switching different external conductors
- bus connection via connecting terminal
- with QuickConnect plug-in terminals

Designation	PLE	PU	Order no.
Switching/blinds actuator, 6/3-way KNX 'easy'	4	1	**TXA606B**
Switching/blinds actuator, 8/4-way KNX 'easy'	6	1	**TXA608B**
Switching/blinds actuator, 10/5-way KNX 'easy'	6	1	**TXA610B**

Switching/blinds actuators KNX 'easy', 16 A C load

TXA604D

Operating voltage via bus:	21 to 32 V=
Frequency:	50/60 Hz
Switching current at cos ϕ = 0.8:	max. 16 A
230 V LED lamps:	18 x 23 W
Energy-saving lamps:	18 x 23 W
230 V incandescent lamps:	2300 W
230 V halogen lamps:	2300 W
conventional transformers:	1600 VA
electronic transformers:	1200 W
Fluorescent lamps:	
- non-compensated:	1200 W
- parallel-compensated:	1500 W [200 µF]
- with EVG:	20 x 36 W
Operating temperature:	-5 to +45°C
Conductor cross-section (flexible):	0.75 to 2.5 mm^2
Conductor cross-section (rigid):	0.75 to 2.5 mm^2

Features and characteristics:
- for switching one independent load on each actuator channel or activating a blinds drive via two actuator channels
- user-definable mixed operation of drive and switching functions is possible
- manual operation can be activated via 2-stage selector switch; simultaneous deactivation of KNX function
- with illuminated programming button
- status LED integrated in the manual operation button
- with positioning function for blinds and slats
- with safety functions e.g. for wind, rain, alarm
- large label field
- suitable for switching different external conductors
- bus connection via connecting terminal
- with QuickConnect plug-in terminals

Designation	PLE	PU	Order no.
Switching/blinds actuator, 4/2-way KNX 'easy'	4	1	**TXA604D**
Switching/blinds actuator, 6/3-way KNX 'easy'	4	1	**TXA606D**
Switching/blinds actuator, 8/4-way KNX 'easy'	6	1	**TXA608D**
Switching/blinds actuator, 10/5-way KNX 'easy'	6	1	**TXA610D**

TXM616D

Switching/blinds actuators KNX 'easy', 16 A C load

Operating voltage via bus:	21 to 32 V=
Frequency:	50/60 Hz
Switching current at cos ϕ =:	0.8 max. 16 A
230 V LED lamps:	25 x 18 W
Energy-saving lamps:	25 x 18 W
230 V incandescent lamps:	2300 W
230 V halogen lamps:	2300 W
conventional transformers:	1500 VA
electronic transformers:	1500 W
Fluorescent lamps:	
- non-compensated:	1200 W
- parallel-compensated:	1500 W [200 µF]
- with EVG:	20 x 36 W
Operating temperature:	-5 to +45°C
Conductor cross-section (flexible):	0.75 to 2.5 mm^2
Conductor cross-section (rigid):	0.75 to 2.5 mm^2

Features and characteristics:
- for switching one independent load on each actuator channel or activating a blinds drive via two actuator channels
- user-definable mixed operation of drive and switching functions possible
- manual operation can be activated via 2-stage selector switch; simultaneous deactivation of KNX function
- with illuminated programming button
- status LED integrated in the manual operation button
- with positioning function for blinds and slats
- with safety functions e.g. for wind, rain, alarm
- large label field
- suitable for switching different external conductors
- bus connection via connecting terminal
- with screw-type terminals

Designation	PLE	PU	Order no.
Switching/blinds actuator, 16/8-way KNX 'easy'	8	1	**TXM616D**
Switching/blinds actuator, 20/10-way KNX 'easy'	10	1	**TXM620D**

Universal dimming actuator, 1-way KNX 'easy', 600W

TXA661B

Operating voltage via bus:	21 to 32 V=
Auxiliary voltage:	230 V~
Frequency:	50/60 Hz
Dimmable 230 V LED lamps:	120 W
No. of dimmable 230 V LED lamps:	max. 10
Dimmable energy-saving lamps:	120 W
No. of energy-saving lamps:	max. 10
230 V incandescent and halogen lamps:	600 W
Dimmable, conventional transformers:	600 W
Electronic transformers:	600 W
Operating temperature:	-5 to +45°C
Conductor cross-section (flexible):	0.75 to 2.5 mm^2
Conductor cross-section (rigid):	0.75 to 2.5 mm^2

Features and characteristics:
- selector switch manual/bus operating and load setting
- manual operation can be activated via selector switch; simultaneous deactivation of KNX function
- manual operation also possible without bus, e.g. on building site
- manual operation of each channel via button (single button operation)
- status LED integrated in the manual operation button
- with illuminated programming button
- learning function can be activated for optimised operation of compact fluorescent lights and LED lights via bus
- the load type for each channel can be set using a button on the device
- phase cut-on or phase cut-off control depending on load type, self-learning
- min./max. dimming values can be set for each channel on the device
- large label field
- short-circuit-proof and resistant to overload (LED display for each channel)
- overheating protection, display via LED
- overload protection, display via LED
- bus connection via connecting terminal
- with QuickConnect plug-in terminals

Designation	PLE	PU	Order no.
Universal dimming actuator, 1-way KNX 'easy', 1 x 600 W	4	1	**TXA661B**

Universal dimming actuators KNX 'easy'

TXA664A

Operating voltage via bus:	21 to 32 V=
Auxiliary voltage:	230 V~
Frequency:	50/60 Hz
Dimmable 230 V LED lamps:	60 W on each channel
No. of dimmable 230 V LED lamps:	max. 8
Dimmable energy-saving lamps:	60 W on each channel
No. of energy-saving lamps:	max. 8
230 V incandescent and halogen lamps:	300 W on each channel
Dimmable, conventional transformers:	300 W on each channel
Electronic transformers:	300 W on each channel
Operating temperature:	-5 to +45°C
Conductor cross-section (flexible):	0.75 to 2.5 mm^2
Conductor cross-section (rigid):	0.75 to 2.5 mm^2

Features and characteristics:
- selector switch manual/bus operating and load setting
- manual operation can be activated via selector switch; simultaneous deactivation of KNX function
- manual operation of each channel via button (single button operation)
- status LED integrated in the manual operation button
- with illuminated programming button
- learning function can be activated for optimised operation of compact fluorescent lights and LED lights via bus
- the load type for each channel can be set using a button on the device
- phase cut-on or phase cut-off control depending on load type, self-learning
- min./max. dimming values can be set for each channel on the device
- large label field
- suitable for switching different external conductors (TXA664A)
- short-circuit-proof and resistant to overload (LED display for each channel)
- overheating protection, display via LED
- overload protection, display via LED
- bus connection via connecting terminal
- with QuickConnect plug-in terminals

Designation	PLE	PU	Order no.
Universal dimming actuator, 1-way KNX 'easy', 1 x 300 W	4	1	**TXA661A**
Universal dimming actuator, 3-way KNX 'easy', 3 x 300 W	6	1	**TXA663A**
Universal dimming actuator, 4-way KNX 'easy', 4 x 300 W	8	1	**TXA664A**

TXA624C

Roller shutters / blinds actuators KNX 'easy'

Operating voltage via bus:	21 to 32 V=
Frequency:	50/60 Hz
Switching current at cos ϕ = 0.8:	max. 6 A
Operating temperature:	-5 to +45°C
Conductor cross-section (flexible):	0.75 to 2.5 mm^2
Conductor cross-section (rigid):	0.75 to 2.5 mm^2

Features and characteristics:
- for activating an AC drive on each actuator channel
- with manual operation button for up/down for each channel
- operating mode for blinds or roller shutters / awnings can be set
- manual operation can be activated via selector switch; simultaneous deactivation of KNX function
- manual operation of each channel via button (single button operation)
- status LED integrated in the manual operation button
- with illuminated programming button
- with positioning function for blinds and slats
- with safety functions e.g. for wind, rain, alarm
- large label field
- suitable for switching different external conductors
- bus connection via connecting terminal
- with QuickConnect plug-in terminals

Designation	PLE	PU	Order no.
Roller shutters / blinds actuator, 4-way KNX 'easy', 230 V	4	1	**TXA624C**
Roller shutters / blinds actuator, 4-way KNX 'easy', 24 V DC	4	1	**TXA624D**
Roller shutters / blinds actuator, 8-way KNX 'easy', 230 V	6	1	**TXA628C**

TXM632C

Roller shutters / blinds actuator, 12-way KNX 'easy', 230 V

Operating voltage via bus:	21 to 32 V=
Frequency:	50/60 Hz
Operating temperature:	-5 to +45°C
Conductor cross-section (flexible):	0.5 to 6 mm^2
Conductor cross-section (rigid):	0.5 to 6 mm^2

Features and characteristics:
- for activating an AC drive on each actuator channel
- with manual operation button for up/down for each channel
- operating mode for blinds or roller shutters / awnings can be set
- selector switch manual/bus operating and second operating level
- manual operation can be activated via selector switch; simultaneous deactivation of KNX function
- manual operation of each channel via button (single button operation, two operating levels)
- status LED integrated in the manual operation button
- with illuminated programming button
- with positioning function for blinds and slats
- with safety functions e.g. for wind, rain, alarm
- large label field
- suitable for switching different external conductors
- bus connection via connecting terminal
- with screw-type terminals

Designation	PLE	PU	Order no.
Roller shutters / blinds actuator, 12-way KNX 'easy', 230 V	10	1	**TXM632C**

Switching actuator, 1-way KNX 'easy', 10 A, in-wall

TXB601B

Operating voltage via bus:	21 to 32 V=
Max. switching power at:	230 V~
Frequency:	50/60 Hz
Switching current at cos ϕ = 0.8:	max. 10 A
Current consumption KNX:	typ. 7 mA
230 V LED lamps:	5 x 15 W
Energy-saving lamps:	5 x 15 W
230 V incandescent lamps:	600 W
230 V halogen lamps:	600 W
Conventional transformers:	600 W
Electronic transformers:	600 W
Fluorescent lamps:	
- with EVG:	6 x 58 W
Compact fluorescent lights:	600 W
Operating temperature:	-5 to +45°C
Conductor cross-section (flexible):	0.75 to 2.5 mm^2
Conductor cross-section (rigid):	0.75 to 2.5 mm^2
Dimensions (W x H x D):	44 x 22.5 x 43 mm

Features and characteristics:
- status LED integrated in the manual operation button
- with illuminated programming button / manual operation button
- with potential-free make contact
- installation in in-wall or waterproof junction box
- bus connection via prefabricated cable with bus connecting terminal
- with screw-type terminals
- with integrated bus coupler

Designation	PU	Order no.
Switching actuator, 1-way KNX 'easy'	1	**TXB601B**

Switching/blinds actuator, 2/1-way KNX 'easy', 6A, in-wall

TXB602F

Operating voltage via bus:	21 to 32 V=
Max. switching power at:	230 V~
Frequency:	50/60 Hz
230 V LED lamps:	5 x 13 W
Energy-saving lamps:	5 x 13 W
230 V incandescent lamps:	500 W
230 V halogen lamps:	500 W
Conventional transformers:	500 W
Electronic transformers:	500 W
Fluorescent lamps:	
- non-compensated:	500 W
- with EVG:	6 x 48 W
Operating temperature:	-5 to +45°C
Conductor cross-section (flexible):	0.75 to 2.5 mm^2
Conductor cross-section (rigid):	0.75 to 2.5 mm^2
Dimensions (W x H x D):	44 x 43 x 22.5 mm

Features and characteristics:
- for switching two independent loads or activating a blinds drive
- with positioning function for blinds and slats
- status LED integrated in the manual operation button
- with illuminated programming button
- with potential-free make contact
- installation in in-wall or waterproof junction box
- bus connection via prefabricated cable with bus connecting terminal
- with screw-type terminals
- with integrated bus coupler

Note:
Read the information provided by the motor manufacturer.

Designation	PU	Order no.
Switching/blinds actuator, 2/1-way KNX 'easy'	1	**TXB602F**

TXB692F

Switching/blinds actuator, 2/1-way KNX 'easy' + binary input 2-way, 6A, in-wall

Operating voltage via bus:	21 to 32 V=
Max. switching power at:	230 V~
Frequency:	50/60 Hz
230 V LED lamps:	5 x 13 W
Energy-saving lamps:	5 x 13 W
230 V incandescent lamps:	500 W
230 V halogen lamps:	500 W
Conventional transformers:	500 W
Electronic transformers:	500 W
Fluorescent lamps:	
- non-compensated:	500 W
- with EVG:	6 x 48 W
Operating temperature:	-5 to +45°C
Binary cable length can be extended to:	max. 9.9 m
Conductor cross-section (flexible):	0.75 to 2.5 mm^2
Conductor cross-section (rigid):	0.75 to 2.5 mm^2

Features and characteristics:
- parameters can be set for 2 binary inputs and 2 switching outputs or 1 blinds output
- user-definable mixed operation possible of binary input and drive or switching functions
- with positioning function for blinds and slats
- status LED integrated in the manual operation button
- with illuminated programming button
- with potential-free make contact
- prefabricated, with cables
- installation in in-wall or waterproof junction box
- bus connection via prefabricated cable with bus connecting terminal
- with screw-type terminals
- with integrated bus coupler
- binary input functions: switching, dimming, blinds, scenarios, forced control, and timer switch operation

Note:
Read the information provided by the motor manufacturer.

Designation	PU	Order no.
Switching/blinds actuator, 2/1-way KNX 'easy' + 2 binary inputs	1	**TXB692F**

Heating actuator, 6-way AP 24 V AC

TX206H

Operating voltage via bus:	21 to 32 V=
Output voltage:	24 V~
Frequency:	50/60 Hz
Total output current:	max. 1 A
24 V actuator drives:	max. 13
Operating temperature:	+0 to +50°C
Dimensions (W x H x D):	302 x 75 x 70 mm

Features and characteristics:
- for individual room temperature control
- for constant (PI) or switching (2-point) control
- with one red heat requirement LED for each channel
- with green operating LED and red programming LED
- with red safety LED
- for thermoelectric drive actuators 24 V, closed when currentless
- with integrated transformer
- with emergency program, e.g. in the event of sensor or bus failure
- short-circuit-proof and resistant to overload (micro-fuse)
- bus connection via connecting terminal
- with plug-in terminals
- top hat rail assembly possible

Note:
Max. 4 drive actuators 24 V on each channel

Designation	PU	Order no.
Heating actuator, 6-way AP 24 V AC	1	**TX206H**

Actuator 24 V AC/DC

75900077

Frequency:	50/60 Hz
Operating temperature:	+0 to +60°C
Prefabricated cables:	1 m
Dimensions (W x H x D):	44 x 60 x 61 mm
Cable length:	200 m
Cable length:	max. 200 m
Operating voltage:	24 V~/=
Runtime:	45 s/mm
Power consumption:	1.8 W

Features and characteristics:
- with over-temperature protection
- closed when currentless
- with protection against dismantling
- pluggable connecting cable
- for plug-in connection
- thermoelectric operation
- with status display (open or closed)

Note:
Order valve adapter separately.

Designation	PU	Order no.
Actuator 24 V AC/DC	1	**75900077**

Valve adapter for drive actuator

75900072

Features and characteristics:
- for 230 V drive actuator or 24 V drive actuator

Note:
Further valve adapters available on request.

Designation	PU	Order no.
VA10, Dumser / Simplex / Beulco (from 2005)	1	**75900072**
VA50, Cazzaniga / Honeywell & Braukmann / Landis & Gyr / Frese / Reich (distributor) / KaMo	1	**75900073**
VA80, Comap / Empur / Heimeier / Herb / IVAR / MNG / Onda / Oventrop / Schlösser / Strawa / TA / Thermot	1	**75900075**
VA78, flange for Danfoss valves, type: RA	1	**75900074**

TX501

KNX actuator

Operating voltage via bus:	21 to 32 V=
Operating temperature:	+0 to +50°C
Prefabricated cables:	≈ 1 m
Dimensions (L x W x H):	65 x 50 x 82 mm

Features and characteristics:
- suitable for all common thermostat valve bottom sections
- with programming button and red programming LED
- Summer operation and forced operation functions
- with 2 independent binary inputs
- with 5 LEDs for displaying valve lift
- bus connection via connecting terminal

Note:
Enclosed are two valve adapters suitable for:
Danfoss RA, Heimeier, MNG, Schlösser (from 03/93), Honeywell, Braukmann, Dumser (distributor), Reich (distributor), Landis + Gyr, Oventrop, Herb, Onda

Designation	PU	Order no.
KNX actuator	1	**TX501**

TX502

KNX drive actuator with temperature controller

Operating voltage via bus:	21 to 32 V=
Operating temperature:	+0 to +50°C
Prefabricated cables:	≈ 1 m
Dimensions (L x W x H):	65 x 50 x 82 mm

Features and characteristics:
- suitable for all common thermostat valve bottom sections
- with programming button and red programming LED
- Summer operation
- with 2 independent binary inputs
- with 5 LEDs for displaying valve lift
- bus connection via connecting terminal
- for heating or cooling operation
- operating modes: comfort, standby, night reduction , frost/heat protection
- prefabricated, with cables

Note:
Enclosed are two valve adapters suitable for:
Danfoss RA, Heimeier, MNG, Schlösser (from 03/93), Honeywell, Braukmann, Dumser (distributor), Reich (distributor), Landis + Gyr, Oventrop, Herb, Onda

Designation	PU	Order no.
KNX drive actuator with temperature controller	1	**TX502**

quicklink

								
	Attach-ments KNX wireless	KNX wireless Button, 1-way	KNX wireless Button, 2-way	KNX wireless Button, 4-way	KNX wireless Motion sensor, comfort 1.1 / 2.2 m	KNX wireless Timer switch	KNX wireless Blinds button	KNX wireless Blinds timer
Inserts	**Order no.**	**851451xx**	**851461xx**	**856481xx**	**853451xx 853461xx**	**857452xx**	**852451xx**	**857451xx**
Switching insert, 1-way 	**85121100**	■		■	■			
Relay insert 	**85121200**	■		■	■	■		
Touch dimmer (R, L) 	**85421100**	■		■	■			
Universal touch dimmer, 1-way 	**85421200**	■		■	■			
Switching insert, 2-way 	**85122200**		■	■				
Universal touch dimmer, 2-way 	**85422100**		■	■				
DALI/DSI control insert 	**85421700**	■		■				
Blinds insert, comfort 	**85221100**						■	■

85121200

Relay insert

230 V LED lamps:	440 W
Dimmable energy-saving lamps:	440 W
230 V incandescent and halogen lamps:	2300 W
Dimmable, conventional transformers:	1500 W
Electronic transformers and bi-mode transformers:	1500 W

Optional	**Order no.**
Switch-on current limiter	185

Designation	PU	Order no.
Relay insert	1	**85121200**

85121100

Switching insert, 1-way

Dimmable 230 V LED lamps:	5 to 70 W
Dimmable energy-saving lamps:	13 to 80 W
230 V incandescent and halogen lamps:	25 to 400 W
Dimmable, conventional transformers:	25 to 400 W
Electronic transformers and bi-mode transformers:	25 to 400 W

Designation	PU	Order no.
Switching insert, 1-way	1	**85121100**

85121200

Switching insert, 2-way

Dimmable 230 V LED lamps:	12 to 54 W on each channel
Dimmable energy-saving lamps:	15 to 54 W on each channel
230 V incandescent and halogen lamps:	35 to 300 W on each channel
Dimmable, conventional transformers:	35 to 300 W on each channel
Electronic transformers and bi-mode transformers:	35 to 300 W on each channel

Designation	PU	Order no.
Switching insert, 2-way	1	**85122200**

85421100

Touch dimmer (R, L)

230 V incandescent and halogen lamps:	25 to 400 W
Dimmable, conventional transformers:	25 to 400 W

Optional	**Order no.**
Universal power extension Plus REG)	1659901

Designation	PU	Order no.
Touch dimmer (R, L)	1	**85421100**

85421200

Universal touch dimmer, 1-way

Dimmable 230 V LED lamps:	5 to 70 W
Dimmable energy-saving lamps:	13 to 80 W
230 V incandescent and halogen lamps:	25 to 400 W
Dimmable, conventional transformers:	25 to 400 W
Electronic transformers and bi-mode transformers:	25 to 400 W

Designation	PU	Order no.
Universal touch dimmer, 1-way	1	**85421200**

Universal touch dimmer, 2-way

Dimmable 230 V LED lamps:	12 to 40 W on each channel
Dimmable energy-saving lamps:	15 to 54 W on each channel
230 V incandescent and halogen lamps:	35 to 300 W on each channel
Dimmable, conventional transformers:	35 to 300 W on each channel
Electronic transformers and bi-mode transformers:	35 to 300 W on each channel

Designation	PU	Order no.
Universal touch dimmer, 2-way	1	**85422100**

85422100

DALI/DSI control insert

Features and characteristics:
no. of DALI/DSI devices: for CU cables:
- active operation: max. 20
- passive operation (with external voltage supply): max. 64

Designation	PU	Order no.
DALI/DSI control insert	1	**85421700**

85421700

KNX wireless button, 1-way quicklink

Suitable for	**Order no.**
Relay insert	85121200
Switching insert, 1-way	85121100
Touch dimmer (R, L)	85421100
Universal touch dimmer, 1-way	85421200
DALI/DSI control insert	85421700

Designation	Colour	PU	Order no.
Berker S.1/B.3/B.7 KNX	White, shiny	1	**85145182**
Berker S.1/B.3/B.7 KNX	Polar white, shiny	1	**85145189**
Berker S.1/B.3/B.7 KNX	Polar white, matt	1	**85145188**
Berker S.1/B.3/B.7 KNX	Anthracite, matt	1	**85145185**
Berker S.1/B.3/B.7 KNX	Aluminium, matt, coated	1	**85145183**
Berker Q.1/Q.3 KNX	Polar white, velvet	1	**85145129**
Berker Q.1/Q.3 KNX	Anthracite, velvet, coated	1	**85145126**
Berker Q.1/Q.3 KNX	Aluminium, velvet, coated	1	**85145124**
Berker K.1/K.5 KNX	Polar white, shiny	1	**85145179**
Berker K.1/K.5 KNX	Anthracite, matt, coated	1	**85145175**
Berker K.1/K.5 KNX	Aluminium, matt, coated	1	**85145177**
Berker K.1/K.5 KNX	Stainless steel, matt, coated	1	**85145173**
Berker R.1/R.3 KNX	Polar white, shiny	1	**85145139**
Berker R.1/R.3 KNX	Black, shiny	1	**85145131**

85145189

85146189

KNX wireless button, 2-way quicklink

Suitable for	Order no.
Switching insert, 2-way	85122200
Universal touch dimmer, 2-way	85422100

Designation	Colour	PU	Order no.
Berker S.1/B.3/B.7 KNX	White, shiny	1	**85146182**
Berker S.1/B.3/B.7 KNX	Polar white, shiny	1	**85146189**
Berker S.1/B.3/B.7 KNX	Polar white, matt	1	**85146188**
Berker S.1/B.3/B.7 KNX	Anthracite, matt	1	**85146185**
Berker S.1/B.3/B.7 KNX	Aluminium, matt, coated	1	**85146183**
Berker Q.1/Q.3 KNX	Polar white, velvet	1	**85146129**
Berker Q.1/Q.3 KNX	Anthracite, velvet, coated	1	**85146126**
Berker Q.1/Q.3 KNX	Aluminium, velvet, coated	1	**85146124**
Berker K.1/K.5 KNX	Polar white, shiny	1	**85146179**
Berker K.1/K.5 KNX	Anthracite, matt, coated	1	**85146175**
Berker K.1/K.5 KNX	Aluminium, matt, coated	1	**85146177**
Berker K.1/K.5 KNX	Stainless steel, matt, coated	1	**85146173**
Berker R.1/R.3 KNX	Polar white, shiny	1	**85146139**
Berker R.1/R.3 KNX	Black, shiny	1	**85146131**

85648189

KNX wireless button, 4-way quicklink

Suitable for	Order no.
Switching inserts, Dimming inserts, DALI/DSI control insert	8542 17 00

Designation	Colour	PU	Order no.
Berker S.1/B.3/B.7 KNX	White, shiny	1	**85648182**
Berker S.1/B.3/B.7 KNX	Polar white, shiny	1	**85648189**
Berker S.1/B.3/B.7 KNX	Polar white, matt	1	**85648188**
Berker S.1/B.3/B.7 KNX	Anthracite, matt	1	**85648185**
Berker S.1/B.3/B.7 KNX	Aluminium, matt, coated	1	**85648183**
Berker Q.1/Q.3 KNX	Polar white, velvet	1	**85648129**
Berker Q.1/Q.3 KNX	Anthracite, velvet, coated	1	**85648126**
Berker Q.1/Q.3 KNX	Aluminium, velvet, coated	1	**85648124**
Berker K.1/K.5 KNX	Polar white, shiny	1	**85648179**
Berker K.1/K.5 KNX	Anthracite, matt, coated	1	**85648175**
Berker K.1/K.5 KNX	Aluminium, matt, coated	1	**85648177**
Berker K.1/K.5 KNX	Stainless steel, matt, coated	1	**85648173**
Berker R.1/R.3 KNX	Polar white, shiny	1	**85648139**
Berker R.1/R.3 KNX	Black, shiny	1	**85648131**

KNX wireless timer switch, quicklink

Suitable for	Order no.
Relay insert	85121200

Designation	Colour	PU	Order no.
Berker S.1/B.3/B.7 KNX	White, shiny	1	**85745282**
Berker S.1/B.3/B.7 KNX	Polar white, shiny	1	**85745289**
Berker S.1/B.3/B.7 KNX	Polar white, matt	1	**85745288**
Berker S.1/B.3/B.7 KNX	Anthracite, matt	1	**85745285**
Berker S.1/B.3/B.7 KNX	Aluminium, matt, coated	1	**85745283**
Berker Q.1/Q.3 KNX	Polar white, velvet	1	**85745229**
Berker Q.1/Q.3 KNX	Anthracite, velvet, coated	1	**85745226**
Berker Q.1/Q.3 KNX	Aluminium, velvet, coated	1	**85745224**
Berker K.1/K.5 KNX	Polar white, shiny	1	**85745279**
Berker K.1/K.5 KNX	Anthracite, matt, coated	1	**85745275**
Berker K.1/K.5 KNX	Aluminium, matt, coated	1	**85745277**
Berker K.1/K.5 KNX	Stainless steel, matt, coated	1	**85745273**
Berker R.1/R.3 KNX	Polar white, shiny	1	**85745239**
Berker R.1/R.3 KNX	Black, shiny	1	**85745231**

85745289

85121200

Relay insert

230 V LED lamps:	440 W
Dimmable energy-saving lamps:	440 W
230 V incandescent and halogen lamps:	2300 W
Dimmable, conventional transformers:	1500 W
Electronic transformers and bi-mode transformers:	1500 W

Optional	**Order no.**
Switch-on current limiter	185

Designation	PU	Order no.
Relay insert	1	**85121200**

85121100

Switching insert, 1-way

Dimmable 230 V LED lamps:	5 to 70 W
Dimmable energy-saving lamps:	13 to 80 W
230 V incandescent and halogen lamps:	25 to 400 W
Dimmable, conventional transformers:	25 to 400 W
Electronic transformers and bi-mode transformers:	25 to 400 W

Designation	PU	Order no.
Switching insert, 1-way	1	**85121100**

85421100

Touch dimmer (R, L)

230 V incandescent and halogen lamps:	25 to 400 W
Dimmable, conventional transformers:	25 to 400 W

Optional	**Order no.**
Universal power extension Plus)	1659901

Designation	PU	Order no.
Touch dimmer (R, L)	1	**85421100**

85421200

Universal touch dimmer, 1-way

Dimmable 230 V LED lamps:	5 to 70 W
Dimmable energy-saving lamps:	13 to 80 W
230 V incandescent and halogen lamps:	25 to 400 W
Dimmable, conventional transformers:	25 to 400 W
Electronic transformers and bi-mode transformers:	25 to 400 W

Designation	PU	Order no.
Universal touch dimmer, 1-way	1	**85421200**

85421700

DALI/DSI control insert

Features and characteristics:
no. of DALI/DSI devices: for CU cables:
- active operation: max. 20
- passive operation (with external voltage supply): max. 64

Designation	PU	Order no.
DALI/DSI control insert	1	**85421700**

KNX wireless motion sensor, comfort 1.1 m quicklink

85345189

Suitable for	Order no.
Relay insert	85121200
Switching insert, 1-way	85121100
Touch dimmer (R, L)	85421100
Universal touch dimmer, 1-way	85421200
DALI/DSI control insert	85421700

Designation	Colour	PU	Order no.
Berker S.1/B.3/B.7 KNX	White, shiny	1	**85345182**
Berker S.1/B.3/B.7 KNX	Polar white, shiny	1	**85345189**
Berker S.1/B.3/B.7 KNX	Polar white, matt	1	**85345188**
Berker S.1/B.3/B.7 KNX	Anthracite, matt	1	**85345185**
Berker S.1/B.3/B.7 KNX	Aluminium, matt, coated	1	**85345183**
Berker Q.1/Q.3 KNX	Polar white, velvet	1	**85345129**
Berker Q.1/Q.3 KNX	Anthracite, velvet, coated	1	**85345126**
Berker Q.1/Q.3 KNX	Aluminium, velvet, coated	1	**85345124**
Berker K.1/K.5 KNX	Polar white, shiny	1	**85345179**
Berker K.1/K.5 KNX	Anthracite, matt, coated	1	**85345175**
Berker K.1/K.5 KNX	Aluminium, matt, coated	1	**85345177**
Berker K.1/K.5 KNX	Stainless steel, matt, coated	1	**85345173**
Berker R.1/R.3 KNX	Polar white, shiny	1	**85345139**
Berker R.1/R.3 KNX	Black, shiny	1	**85345131**

KNX wireless motion sensor, comfort 2.2 m quicklink

85346189

Suitable for	Order no.
Relay insert	85121200
Switching insert, 1-way	85121100
Touch dimmer (R, L)	85421100
Universal touch dimmer, 1-way	85421200
DALI/DSI control insert	85421700

Designation	Colour	PU	Order no.
Berker S.1/B.3/B.7 KNX	White, shiny	1	**85346182**
Berker S.1/B.3/B.7 KNX	Polar white, shiny	1	**85346189**
Berker S.1/B.3/B.7 KNX	Polar white, matt	1	**85346188**
Berker S.1/B.3/B.7 KNX	Anthracite, matt	1	**85346185**
Berker S.1/B.3/B.7 KNX	Aluminium, matt, coated	1	**85346183**
Berker Q.1/Q.3 KNX	Polar white, velvet	1	**85346129**
Berker Q.1/Q.3 KNX	Anthracite, velvet, coated	1	**85346126**
Berker Q.1/Q.3 KNX	Aluminium, velvet, coated	1	**85346124**
Berker K.1/K.5 KNX	Polar white, shiny	1	**85346179**
Berker K.1/K.5 KNX	Anthracite, matt, coated	1	**85346175**
Berker K.1/K.5 KNX	Aluminium, matt, coated	1	**85346177**
Berker K.1/K.5 KNX	Stainless steel, matt, coated	1	**85346173**
Berker R.1/R.3 KNX	Polar white, shiny	1	**85346139**
Berker R.1/R.3 KNX	Black, shiny	1	**85346131**

TRE520

KNX wireless motion sensor 220° AP, IP55

Suitable for	Order no.
Corner mounting adapter for motion sensor AP	EE855/856

Designation	Colour	PU	Order no.
KNX wireless motion sensor 220° AP	Polar white, matt	1	**TRE520**
KNX wireless motion sensor 220° AP	Anthracite, matt	1	**TRE521**

TRE530

KNX wireless motion sensor 220° AP, Solar

Suitable for	Order no.
Corner mounting adapter for motion sensor AP	EE855/856

Designation	Colour	PU	Order no.
KNX wireless motion sensor 220° AP Solar	Polar white, matt	1	**TRE530**
KNX wireless motion sensor 220° AP Solar	Anthracite, matt	1	**TRE531**

TRE720

KNX wireless motion sensor 220° AP / switching actuator 1-way AP Set

Suitable for	Order no.
Corner mounting adapter for motion sensor AP	EE855

Designation	Colour	PU	Order no.
KNX wireless motion sensor 220° AP / switching actuator 1-way AP Set	Polar white, matt	1	**TRE720**

EE855

Corner mounting adapter for motion sensor AP

Suitable for	Order no.
KNX wireless motion sensor 220° AP	TRE520/521
KNX wireless motion sensor 220° AP Solar	TRE530/531
KNX wireless motion sensor 220° AP/ switching actuator, 1-way AP Set	TRE720

Designation	Colour	PU	Order no.
Corner mounting adapter for motion sensor AP	Polar white, matt	1	**EE855**
Corner mounting adapter for motion sensor AP	Anthracite, matt	1	**EE856**

TRE600

KNX wireless motion sensor with LED spotlight AP quicklink

Suitable for	Order no.
Hand-held transmitter for motion sensor	EE806

Designation	Colour	PU	Order no.
KNX wireless motion sensor with LED spotlight AP quicklink	White, matt	1	**TRE600**

Blinds insert, comfort

Switching current at cos ϕ = 0.6: max. 3 A
Switching current (ohmic/inductive): max. 5 A

Suitable for	Order no.
Interface AP for wind sensor	173
Precipitation sensor cut-off relay	18301

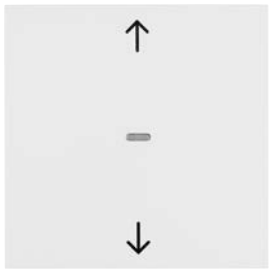
Designation	PU	Order no.
Blinds insert, comfort	1	**85221100**

85221100

KNX wireless blinds button, quicklink

Suitable for	Order no.
Blinds insert, comfort	85221100

Designation	Colour	PU	Order no.
Berker S.1/B.3/B.7 KNX	White, shiny	1	**85245182**
Berker S.1/B.3/B.7 KNX	Polar white, shiny	1	**85245189**
Berker S.1/B.3/B.7 KNX	Polar white, matt	1	**85245188**
Berker S.1/B.3/B.7 KNX	Anthracite, matt	1	**85245185**
Berker S.1/B.3/B.7 KNX	Aluminium, matt, coated	1	**85245183**
Berker Q.1/Q.3 KNX	Polar white, velvet	1	**85245129**
Berker Q.1/Q.3 KNX	Anthracite, velvet, coated	1	**85245126**
Berker Q.1/Q.3 KNX	Aluminium, velvet, coated	1	**85245124**
Berker K.1/K.5 KNX	Polar white, shiny	1	**85245179**
Berker K.1/K.5 KNX	Anthracite, matt, coated	1	**85245175**
Berker K.1/K.5 KNX	Aluminium, matt, coated	1	**85245177**
Berker K.1/K.5 KNX	Stainless steel, matt, coated	1	**85245173**
Berker R.1/R.3 KNX	Polar white, shiny	1	**85245139**
Berker R.1/R.3 KNX	Black, shiny	1	**85245131**


85245189

KNX wireless blinds timer, quicklink

Suitable for	Order no.
Blinds insert, comfort	85221100

Designation	Colour	PU	Order no.
Berker S.1/B.3/B.7 KNX	White, shiny	1	**85745182**
Berker S.1/B.3/B.7 KNX	Polar white, shiny	1	**85745189**
Berker S.1/B.3/B.7 KNX	Polar white, matt	1	**85745188**
Berker S.1/B.3/B.7 KNX	Anthracite, matt	1	**85745185**
Berker S.1/B.3/B.7 KNX	Aluminium, matt, coated	1	**85745183**
Berker Q.1/Q.3 KNX	Polar white, velvet	1	**85745129**
Berker Q.1/Q.3 KNX	Anthracite, velvet, coated	1	**85745126**
Berker Q.1/Q.3 KNX	Aluminium, velvet, coated	1	**85745124**
Berker K.1/K.5 KNX	Polar white, shiny	1	**85745179**
Berker K.1/K.5 KNX	Anthracite, matt, coated	1	**85745175**
Berker K.1/K.5 KNX	Aluminium, matt, coated	1	**85745177**
Berker K.1/K.5 KNX	Stainless steel, matt, coated	1	**85745173**
Berker R.1/R.3 KNX	Polar white, shiny	1	**85745139**
Berker R.1/R.3 KNX	Black, shiny	1	**85745131**

85745189

TU402

Hand-held KNX wireless transmitter

- Label field

Designation	Colour	PU	Order no.
Hand-held KNX wireless transmitter, 2-channel	Polar white/grey, shiny/matt	1	**TU402**
Hand-held KNX wireless transmitter, 4-channel	Polar white/grey, shiny/matt	1	**TU404**

TU406

Hand-held KNX wireless transmitter, 6-channel

- Label field

Designation	Colour	PU	Order no.
Hand-held KNX wireless transmitter, 6-channel	Polar white, velvet	1	**TU406**

TU418

Hand-held KNX wireless transmitter, 18-channel

- Label field

Designation	Colour	PU	Order no.
Hand-held KNX wireless transmitter, 18-channel	White / dark blue	1	**TU418**

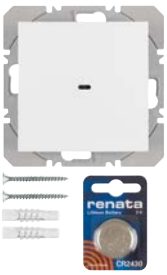
TRE301

KNX wireless wall transmitter AP quicklink

Designation	Colour	Channels	PU	Order no.
KNX wireless wall transmitter, 1-way AP quicklink	White	2 wireless channels	1	**TRE301**
KNX wireless wall transmitter, 2-way AP quicklink	White	4 wireless channels	1	**TRE302**

KNX wireless wall transmitter, 1-way, flat quicklink

Designation	Colour	PU	Order no.
Berker S.1/B.3/B.7 KNX	White, shiny	1	**85655282**
Berker S.1/B.3/B.7 KNX	Polar white, shiny	1	**85655289**
Berker S.1/B.3/B.7 KNX	Polar white, matt	1	**85655288**
Berker S.1/B.3/B.7 KNX	Anthracite, matt	1	**85655285**
Berker S.1/B.3/B.7 KNX	Aluminium, matt, coated	1	**85655283**
Berker Q.1/Q.3 KNX	Polar white, velvet	1	**85655229**
Berker Q.1/Q.3 KNX	Anthracite, velvet, coated	1	**85655226**
Berker Q.1/Q.3 KNX	Aluminium, velvet, coated	1	**85655224**
Berker K.1/K.5 KNX	Polar white, shiny	1	**85655279**
Berker K.1/K.5 KNX	Anthracite, matt, coated	1	**85655275**
Berker K.1/K.5 KNX	Aluminium, matt, coated	1	**85655277**
Berker K.1/K.5 KNX	Stainless steel, matt, coated	1	**85655273**
Berker R.1/R.3 KNX	Polar white, shiny	1	**85655239**
Berker R.1/R.3 KNX	Black, shiny	1	**85655231**



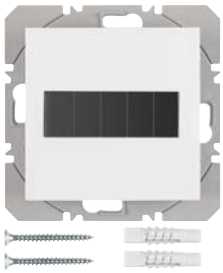
85655289

KNX wireless wall transmitter, 2-way, flat quicklink

Designation	Colour	PU	Order no.
Berker S.1/B.3/B.7 KNX	White, shiny	1	**85656282**
Berker S.1/B.3/B.7 KNX	Polar white, shiny	1	**85656289**
Berker S.1/B.3/B.7 KNX	Polar white, matt	1	**85656288**
Berker S.1/B.3/B.7 KNX	Anthracite, matt	1	**85656285**
Berker S.1/B.3/B.7 KNX	Aluminium, matt, coated	1	**85656283**
Berker Q.1/Q.3 KNX	Polar white, velvet	1	**85656229**
Berker Q.1/Q.3 KNX	Anthracite, velvet, coated	1	**85656226**
Berker Q.1/Q.3 KNX	Aluminium, velvet, coated	1	**85656224**
Berker K.1/K.5 KNX	Polar white, shiny	1	**85656279**
Berker K.1/K.5 KNX	Anthracite, matt, coated	1	**85656275**
Berker K.1/K.5 KNX	Aluminium, matt, coated	1	**85656277**
Berker K.1/K.5 KNX	Stainless steel, matt, coated	1	**85656273**
Berker R.1/R.3 KNX	Polar white, shiny	1	**85656239**
Berker R.1/R.3 KNX	Black, shiny	1	**85656231**

85656289

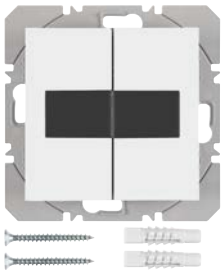
KNX wireless wall transmitter, 1-way, flat solar quicklink



85655189

Designation	Colour	PU	Order no.
Berker S.1/B.3/B.7 KNX	White, shiny	1	**85655182**
Berker S.1/B.3/B.7 KNX	Polar white, shiny	1	**85655189**
Berker S.1/B.3/B.7 KNX	Polar white, matt	1	**85655188**
Berker S.1/B.3/B.7 KNX	Anthracite, matt	1	**85655185**
Berker S.1/B.3/B.7 KNX	Aluminium, matt, coated	1	**85655183**
Berker R.1/R.3 KNX	Polar white, shiny	1	**85655139**
Berker R.1/R.3 KNX	Black, shiny	1	**85655131**

KNX wireless wall transmitter, 2-way, flat solar quicklink



85656189

Designation	Colour	PU	Order no.
Berker S.1/B.3/B.7 KNX	White, shiny	1	**85656182**
Berker S.1/B.3/B.7 KNX	Polar white, shiny	1	**85656189**
Berker S.1/B.3/B.7 KNX	Polar white, matt	1	**85656188**
Berker S.1/B.3/B.7 KNX	Anthracite, matt	1	**85656185**
Berker S.1/B.3/B.7 KNX	Aluminium, matt, coated	1	**85656183**
Berker R.1/R.3 KNX	Polar white, shiny	1	**85656139**
Berker R.1/R.3 KNX	Black, shiny	1	**85656131**

KNX wireless brightness sensor

TRC321B

Suitable for	Order no.
KNX wireless blinds button, quicklink	8524 51 ..
KNX wireless blinds timer, quicklink	8574 51 ..

Designation	Colour	PU	Order no.
KNX wireless brightness sensor	Polar white, matt	1	**TRC321B**

KNX wireless magnetic contact

TRC301B

Designation	Colour	PU	Order no.
KNX wireless magnetic contact	Polar white, matt	1	**TRC301B**

KNX wireless binary input, 2-way, in-wall, battery

Designation	Colour	PU	Order no.
KNX wireless binary input, 2-way, in-wall, battery	Light grey	1	**TRB302A**

TRB302A

KNX wireless binary input, 2-way, in-wall, 230 V

Designation	Colour	PU	Order no.
KNX wireless binary input, 2-way, in-wall, 230 V	Light grey	1	**TRB302B**

TRB302B

KNX wireless switching actuators AP

230 V incandescent and halogen lamps:	1500 W
conventional transformers:	600 W
electronic transformers:	600 W
Compact fluorescent lights:	6 x 18 W on each channel

Designation	Colour	PU	Order no.
KNX wireless switching actuators AP, 1-way	White	1	**TRE201**
KNX wireless switching actuators AP, 2-way	White	1	**TRE202**

TRE201

IP55

KNX wireless switching actuator for connectors

Switching current:	16 A
230 V incandescent and halogen lamps:	2300 W
conventional transformers:	1600 W
electronic and bi-mode transformers:	1200 W

Designation	Colour	PU	Order no.
KNX wireless switching actuator for connectors	Polar white, matt	1	**TRC270D**

TRC270D

TRE400

KNX wireless switching actuator, 1-way / binary input, 1-way AP

Switching current:	10 A / 230 V AC1
230 V incandescent and halogen lamps:	1500 W
conventional transformers:	600 W
electronic transformers:	600 W

Designation	Colour	PU	Order no.
KNX wireless switching actuator, 1-way / binary input, 1-way AP	White	1	**TRE400**

IP55

TRB201

KNX wireless switching actuators, in-wall

230 V incandescent and halogen lamps:	1500 W
conventional transformers:	800 W
electronic transformers:	600 W

Designation	Colour	PU	Order no.
KNX wireless switching actuators, 1-way, in-wall	White	1	**TRB201**
KNX wireless switching actuators, 1-way / binary input, 1-way, in-wall	White	1	**TRB501**

TRB210

KNX wireless universal dimming actuator, 1-way, in-wall

230 V incandescent and halogen lamps:	20 to 200 W
conventional transformers:	20 to 200 W
electronic transformers:	20 to 200 W

Designation	Colour	PU	Order no.
KNX wireless universal dimming actuator, 1-way, in-wall	Light grey	1	**TRB210**

TRE221

KNX wireless blinds actuator, 1-way AP

Switching current: 10 A / 230 V AC1

- With mounting plate and cord grips

Designation	Colour	PU	Order no.
KNX wireless blinds actuator, 1-way AP	White	1	**TRE221**

TRB221A

KNX wireless blinds actuators, in-wall

Switching current: 6 A / 230 V AC1

Designation	Colour	PU	Order no.
KNX wireless blinds actuator, 1-way, in-wall	Light grey	1	**TRB221A**
KNX wireless blinds actuator, 1-way / binary input, 2-way, in-wall	Light grey	1	**TRB521**

KNX wireless / TP gateway AP

Designation	Colour	PU	Order no.
KNX wireless / TP gateway AP	Polar white, matt	1	**TR131A**

TR131A

KNX wireless repeater

Note:
The device does not require any function settings.

Designation	Colour	PU	Order no.
KNX wireless repeater	White	1	**TR140A**

TR140A

KNX wireless top fixture eHz

Wireless transmission frequency:	868.3 MHz
Wireless protocol:	KNX wireless
Battery lifetime [years]:	2.5

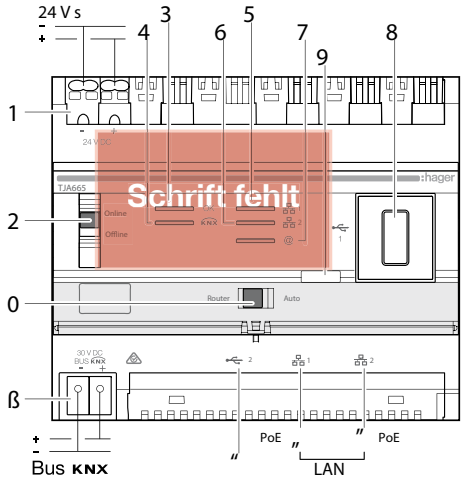
Designation	Colour	PU	Order no.
KNX wireless top fixture eHz	White	1	**EHZ503**

EHZ503

Technical properties

Order no.	TJA665
System voltage KNX	30 V DC
External safety low voltage	24 V DC supply (TGA200, TXA114 or via PoE)
Consumption on bus cable	10 mA max – 30 V DC
Consumption on auxiliary supply cable	200 mA max – 24 V DC
Typical own consumption in idle mode on KNX bus	8 mA
Typical own consumption in idle mode on 24 V ethernet connection, USB not connected	100 mA
Max. power loss	5 W
Consumption with PoE supply	50 mA
Ethernet network communication	2 x 100 / 1000 BaseT
Bus connections	0.6–0.8 mm²
Voltage supply connections quickconnect	0.75–2.5 mm²
Ethernet network connector / IP	2 x RJ45
Operating temperature	0°C to + 45°C
Storage temperature	-20°C to +70°C
Space requirements	6 PLE
USB2 port	2
Installation type	Top hat rail
Operating altitude	< 2000 m
Degree of contamination	2
Surge voltage	4 kV
Protection type	IP20
Shock resistance	IK04
Overvoltage class	III
Standards	EN 60950-1, EN 50491-3, EN 50491-5-2, IEE 802.3 at, USB 2.0, handbook KNX 2.1
OS compatibility	Android: version 4.4 or higher iOS: version 8.0 or higher
Web browser compatibility	Safari: version 8 or higher Chrome: all versions Firefox: all versions Internet Explorer: version 11 or higher

Device structure

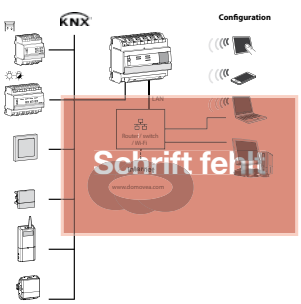


① External safety low voltage connection
② Online/offline switch
③ Server status control LED
④ Bus communication control LED
⑤ Network connection control LED
⑥ Network connection control LED
⑦ Internet connection control LED
⑧ USB2 port
⑨ Bus connection control LED
⑩ “Router” – “auto” changeover switch
⑪ KNX system voltage connection
⑫ USB2 port
⑬ Ethernet network connector / IP
⑭ Ethernet network connector / IP

Changeover switch		Behaviour of ethernet ports			
SEL	COM	Ethernet port 1	Ethernet port 1	Hager gateway	KNX bus
Auto	Online	**This is the standard operation of the TJA665 module when connected to an external router.** The two ports can be exchanged and can be configured via the DHCP server or with a fixed IP address. - As a DHCP client (standard, factory-configured mode), the TJA665 module waits for an IP address, which is assigned to it via a DHCP server (router) installed in the network. If no address is assigned after 40 seconds, the TJA665 module automatically assumes the following alternative address: 192.168.0.253. - If the IP address is fixed, the TJA665 module immediately assumes the parameters defined on the “Internet Server Configuration” tab (“Setting the Configurator” menu): - IP address of the interface - Subnet mask - Address of the default gateway Warning: even if there is an IP address conflict in the network (i.e. a different module is already using the hidden IP address), the module does not automatically assume the alternative address.		Connected	Connected
	Offline	This operating mode is an alternative operating mode in which the two ports can be exchanged. In this case, they are automatically configured as the DHCP client. - If the DHCP server has not assigned an address after 40 seconds, the TJA665 module automatically assumes the following alternative address: 192.168.0. 253.		Disconnected	Disconnected
Router	Online	**For use when a PC is directly connected to the TJA665 module.** This mode activates the DHCP server integrated in the module. The two ports can be exchanged and are configured with the following parameters: - IP address of the interface: 192.168.0.253 - Subnet mask: 255.255.255.0 - Address of the default gateway: 192.168.0.1		Connected	Connected
	Offline	This mode is a substitute mode. The two ports can be exchanged and are configured in DHCP client mode. - If the DHCP server has not assigned an address after 40 seconds, the virtual interface of the TJA665 module automatically assumes the following alternative address: 192.168.0.253.		Disconnected	Disconnected

Meaning of the LEDs

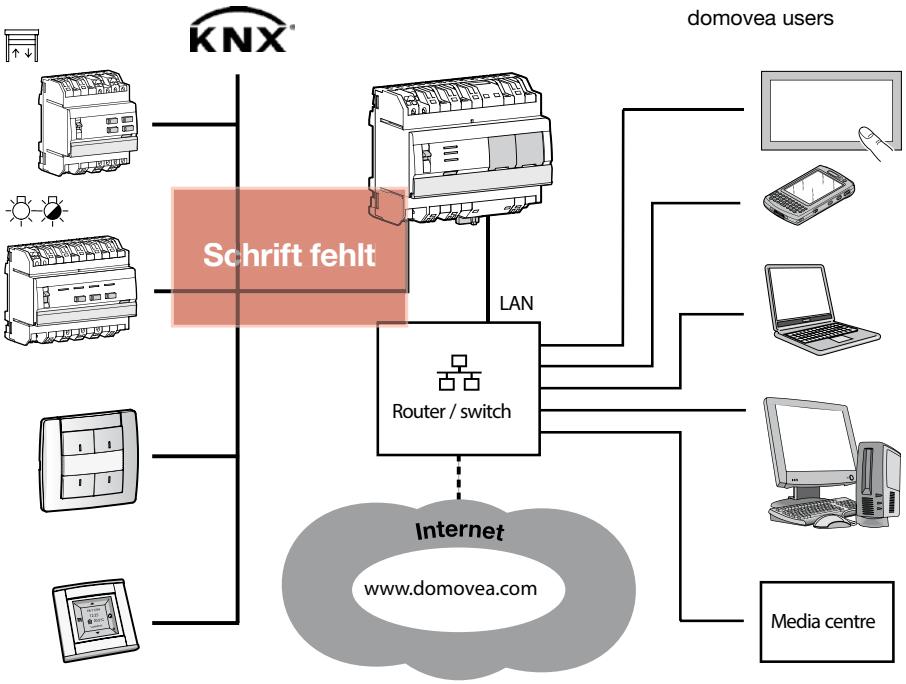
LED function	LED no.	Red	Green	Description
In operation	③	Does not light up	Does not light up	Module has no voltage supply
		Does not light up	Flashing	Start phase of module
		Does not light up	Lights up	Module is starting
		Flashing	Does not light up	Module supplied via power reserve
		Lights up	Does not light up	Error loading the operating system (OS)
KNX	④	Does not light up	Does not light up	Module supplied via power reserve
		Does not light up	Flashing	Connected to KNX bus – bus communication traffic
		Does not light up	Lights up	Connected to KNX bus – no bus communication traffic
		Lights up	Does not light up	No connection to KNX bus
Ethernet ① and ②	⑤ and ⑥	Does not light up	Does not light up	No network connection (or operation via power reserve)
		Does not light up	Flashing	No DHCP server detected, operation on alternative IP address
		Does not light up	Lights up	Network detected and IP address assigned
		Lights up	Does not light up	IP address conflict
		Flashing	Does not light up	Waiting for assignment to IP address
Gateway	⑦	Does not light up	Does not light up	No connection to Hager gateway
		Does not light up	Flashing	Attempting to connect to Hager gateway
		Does not light up	Lights up	Connection to Hager gateway established
		Lights up	Does not light up	No access to Hager gateway or access denied
Bus voltage present	⑨	Fixed	-	Check the bus voltage by briefly pressing button 9. If the red LED lights up, this means that voltage is still present on the KNX bus.



Technical data	TJA450
KNX connection	KNX bus 30 V DC
Auxiliary voltage	24 V DC (TBTS, SELV, ZLVS)
Current consumption on the bus cable	10 mA max., 30 V DC
Current consumption from the auxiliary voltage supply	150 mA max., 24 V DC
Ethernet network	100 BaseT (100 Mbit/s)
Bus connections	0.6–0.8 mm²
Voltage supply connection	0.75–2.5 mm²
Ethernet/IP network connection	RJ 45
Operating temperature	0°C —> +45°C
Storage temperature	-20°C —> +70°C
Protection type	IP20
Dimensions (1 TE = 18 mm)	6 x 17.5 mm

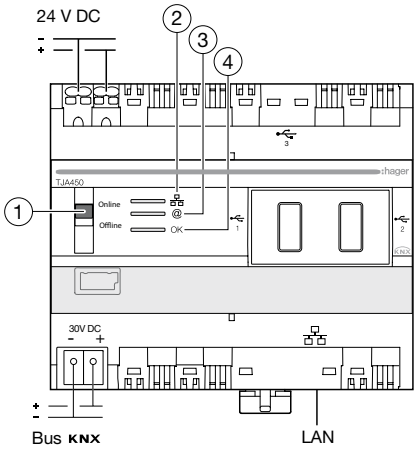
PC system requirements:
- Microsoft® Windows® XP / Vista / Windows 7 / Windows Media Center
- Pentium processor with at least 600 MHz, or equivalent
- Main memory of at least 128 MB; recommended: 256 MB or more
- VGA graphics card with a colour depth of at least 16 bits (high colour) and a resolution of 1024 x 768 pixels
- Free hard disc storage of at least 500 MB
- Network adapter

Functional scope:
- 100 groups (building sections, rooms, zones etc.)
- 500 devices (e.g. for lighting, blinds, sensors etc.)
- 10 IP cameras (to be selected from a defined manufacturer list)
- 50 sequences
- 30 clients (profiles)
- Image memory for groups and devices, max. 20 MB
- 100 energy measurement archives



TJA450 connection diagram

	LED status	Lighting	Troubleshooting
品 2	Does not light up	No network connection	Connect network cable
	Red, permanent	IP address conflict	Check the IP addresses used in the network
	Green, flashing	Waiting for IP address from DHCP server	-
	Green, permanent	IP address received	-
@ 3	Does not light up	No network connection	Connect network cable
	Red, permanent	Portal cannot be accessed	Check Internet access, or access denied
	Green, flashing	Establishing connection with portal	-
	Green, permanent	Connection with portal established	-
OK 4	Red, flashing	Power supply problem	Check power supply
	Red, permanent	Device defective	Inform Hager's Technical Customer Service team
	Green, flashing	Starting domovea server	-
	Green, permanent	domovea server ready	-



Technical data

	TXA604D	TXA606B TXA606D	TXA608B TXA606D	TXA610B TXA610D	TXM616D TXM620D	TXB601B TXB602F TXB692F
Installation type	REG					Installation
In Rated current (A)	4 A	10 A / 16 A C load			16 A C load	10 A / 6 A / 6 A
Un Rated voltage (V)	250/440 V AC					250 V AC
No. of outputs	4	6	8	10	16 / 20	1/2 / 2+2 inputs
Module width (PLE)	4		6		8 / 10	44 x 43 x 22 mm
Manual operation with KNX bus voltage	Yes					
Manual operation without KNX bus voltage	No		Yes	No		
LED status display	Yes					
Labelling window	Yes					No
Supply voltage	30 V DC SELV (additionally for TYA608B/D 230 V AC)					
Power loss	8 W	12 W	12 W	15 W	20 W / 25 W	
Typical own consumption on KNX	5 mA	5 mA	15.2 mA	6 mA	5 mA	7 mA
Typ. own consumption on KNX with power supply			2 mA			
Own consumption in idle mode on KNX	3 mA	3 mA	4 mA	4 mA	3 mA	5 mA
Own consumption in idle mode on KNX with power supply			2 mA			
Max. no. of switching cycles at full load	6 cycles/minute					20 cycles/ minute
Max. current per device (total)	45 A	60 A	80 A	100 A	176 A / 200 A	
Min. switching current	100 mA					10 mA
No. of inputs						0 / 0 / 2
Length of input cables						0 / 0 / 9.9 m
AC1 operation (cos = 0.8) DIN EN 60947-4-1	4 A	10 A / 16 A C load			16 A C load	10 A / 6 A / 6 A
C load switching capacity	16 A (200 µF)					No
Incandescent bulb load at 230 V AC	TXA60xB 1200 W, TXx6xxD 2300 W					600 W / 500 W / 500 W
Fluorescent lamps T5/T8:						
- non-compensated	TXA60xB 1000 W, TXx6xxD 1200 W					600 W / 500 W / 500 W
- with EVG (mono or dual)	TXA60xB 15 x 36 W, TXx6xxD 20 x 36 W					6 x 58 W / 6 x 48 W / 6 x 48 W
- conventional ballast, parallel	TXA60xB no, TXx6xxD 1500 W (200 µF)				1000 W (130 µF)	No
Low-voltage halogen lamps:						
- inductive transformer	TXA60xB 1200 W, TXx6xxD 1600 W				1500 W	600 W / 500 W / 500 W
- electronic transformer	TXA60xB 1000 W, TXx6xxD 1200 W				1500 W	600 W / 500 W / 500 W
Halogen lamp 230 V	TXA60xB 1200 W, TXx6xxD 2300 W					600 W / 500 W / 500 W
Energy-saving lamps 230 V	TXA60xB 12 x 23 W, TXx6xxD 18 x 23 W				25 x 18 W	5 x 15 W / 5 x 13 W / 5 x 13 W
LED:						
- LED	216 W	144 W / 216 W			450 W	75 / 65 / 65
- Max. no. of LED/ESL lamps	18	12 / 18			25	5 / 5 / 5
Connection type	quickconnect				Box terminal PZ1	
Connection cross-section, rigid/flexible	0.75–2.5 mm² (TYMxx 0.5–6 mm² / 0.5–4 mm²)					

Technical properties

Order no.	TXA661A	TXA661B	TXA663A	TXA664A
System voltage KNX	30 V DC			
No. of outputs	1	1	3	4
Supply voltage	230 V AC (+10% / -15%), 50 Hz / 60 Hz			
Current consumption KNX	2.3 mA			
Max. power loss	4 W	7 W	8.9 W	
Dimensions	4 PLE		6 PLE	8 PLE
Protection type	IP30			
Standards	EN50491-3; EN60669-2-1, EN50428			
Connection quickconnect	0.75 mm² to 2.5 mm². Flexible wires without wire end caps			
Labelling	Large labelling window, Semiolog labelling software can be used			
Wiring quickconnect	Through-wiring method, input at top or bottom			
Connection of bus cable	Plug-in terminals TG008, 2-pole			
Operating temperature	-5°C to +45°C			
Storage temperature	-20°C to +70°C			

Load / switching capacity

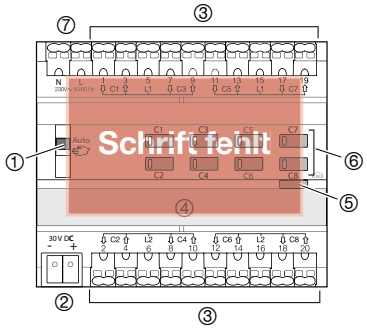
Order no.		TXA661A	TXA661B	TXA663A			TXA664A
No. of outputs		1	1	1	2	3	4
Incandescent lamps	230 V ~	300 W	600 W	1 x 900 W	1 x 600 W 1 x 300 W	1 x 300 W 1 x 300 W 1 x 300 W	1 x 300 W 1 x 300 W 1 x 300 W 1 x 300 W
Halogen lamps	230 V ~	300 W	600 W	1 x 900 W	1 x 600 W 1 x 300 W	1 x 300 W 1 x 300 W 1 x 300 W	1 x 300 W 1 x 300 W 1 x 300 W 1 x 300 W
Conventional Transformer	12 V ~ 24 V ~	300 W	600 W	1 x 900 W	1 x 600 W 1 x 300 W	1 x 300 W 1 x 300 W 1 x 300 W	1 x 300 W 1 x 300 W 1 x 300 W 1 x 300 W
Electronic Transformer	12 V ~ 24 V ~	300 W	600 W	1 x 900 W	1 x 600 W 1 x 300 W	1 x 300 W 1 x 300 W 1 x 300 W	1 x 300 W 1 x 300 W 1 x 300 W 1 x 300 W
Energy-saving lamps	230 V ~	60 W	120 W	1 x 210 W	1 x 120 W 1 x 60 W	1 x 60 W 1 x 60 W 1 x 60 W	1 x 60 W 1 x 60 W 1 x 60 W 1 x 60 W
LED lamps	230 V ~	60 W	120 W	1 x 210 W	1 x 120 W 1 x 60 W	1 x 60 W 1 x 60 W 1 x 60 W	1 x 60 W 1 x 60 W 1 x 60 W 1 x 60 W

Note the power loss of the transformers in order to calculate the maximum number of lights.
Non-dimmable energy-saving lamps and non-dimmable LED lamps are not compatible with this device.

Technical properties

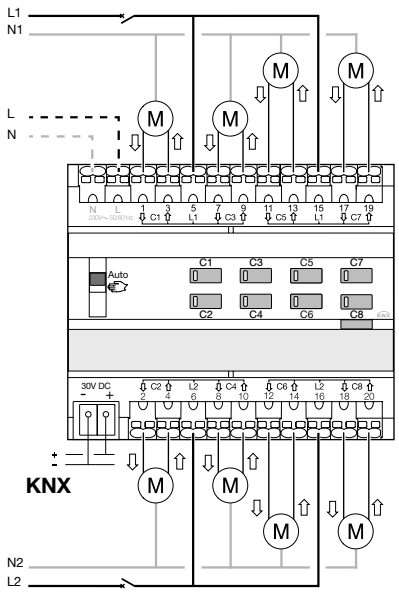
Order no.	TXA624C	TXA628C	TXA624D	TXM632C
System voltage KNX	30 V DC			
Optional power supply		230 V AC		230 V AC
No. of outputs	4	8	4	12
Output type Blinds output	230 V AC	230 V AC	24 V DC	230 V AC
Max. power loss	2 W			3 W
Max. switching current	6 A AC1		6 A DC	4 A AC1
Current consumption KNX	5 mA	6 mA	5 mA	7 mA
Dimensions	4 PLE	6 PLE	4 PLE	10 PLE
Protection type	IP30			
Standards	EN50491-3; EN60669-2-1			
Connection quickconnect	0.75 mm² to 2.5 mm². Flexible wires without wire end caps			Cross slot, PZ1 0.5 mm² to 6 mm² 0.5 mm² to 4 mm²
Max. tightening torque	-			
Labelling	Large labelling window, Semiolog labelling software can be used			
Wiring	quickconnect method			Input and output next to each other
Connection of bus cable	Plug-in terminals TG008, 2-pole			
Operating temperature	-5°C to +45°C			
Storage temperature	-20°C to +70°C			

Device structure (TXA624C/D, TXA628C)

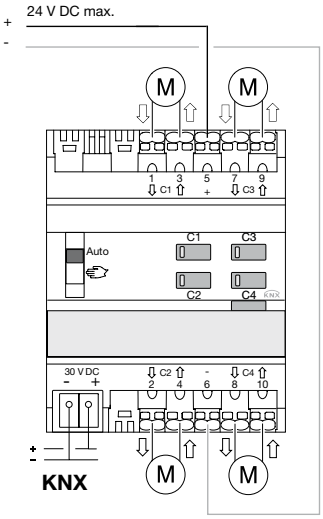


① Slide switch **auto/**
② KNX bus connection terminal
③ Load connections
④ Label field with cover
⑤ Illuminated programming button
⑥ Button for manual operation on each output with status LED
⑦ Network supply connection (8-way only)

Connection diagram (TXA624C, TXA628C)



Connection diagram (TXA624D)



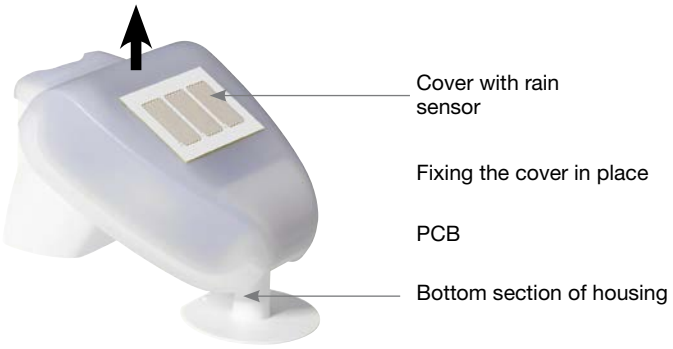
Technical properties

Order no.	TXE530
Commissioning	'easy' / ETS
System voltage	30 V DC
Supply voltage	12 to 40 V DC TBTS / 12 to 24 V AC TBTS
Current consumption KNX	12 mA
Dimensions (H x W x D)	77 x 96 x 118 mm
Weight	Approx. 170 g
Protection type	IP44
Precipitation sensor Precipitation measurement Heating	 Yes/no (1-bit) Approx. 1.2 W
Temperature sensor Measurement range Resolution Measurement accuracy	 -30°C to +80°C 0.1°C ± 0.5°C at -30°C to +30°C ±1.5°C at +30°C to +45°C
Wind sensor Measurement range Resolution Measurement accuracy	 0 to 35 m/s 0.1 m/s ± 15% of measured value with angle of incidence of 90° to 270°
Brightness/twilight sensor Compass point Measurement range Measurement accuracy	 South 0 lx to 150 klx ± 20% at 0 lx to 10 klx ± 15% at 10 klx to 150 klx
Standards	 EN 50491-3 EN 50491- 5 -2: 2011 EN 60730 - 1: 2011
Connection of bus cable	Plug-in terminals TG008, 2-pole
Connection of supply voltage	Spring clips, solid or flexible, max. 0.5 mm²
Operating temperature	-30°C to +50°C
Storage temperature	-30°C to +70°C

1. Spring clips for 12 to 40 V DC TBTS / 12 to 24 V AC supply, for solid conductors with a cross-section of up to 1.5 mm2 or for flexible conductors. Pole-independent terminal assignment (+/- or -/+)
2. Plug connector for wiring the rain sensor, integrated in the housing cover
3. GPS antenna
4. GPS signal LED
5. KNX plug connector (+/-)
6. Button for physical addressing
7. LED physical addressing

Preparing the weather station

Unlock the cover and lift to remove.

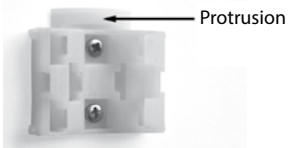


Mounting the holder

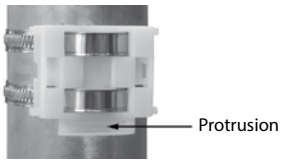
The weather station must be attached on a vertical wall (or on a pole).

Attach the holder vertically to the wall or pole.

When wall-mounted:
Flat side facing the wall, crescent-shaped protrusion facing up.



When pole-mounted:
Curved side facing the pole, protrusion facing down.



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