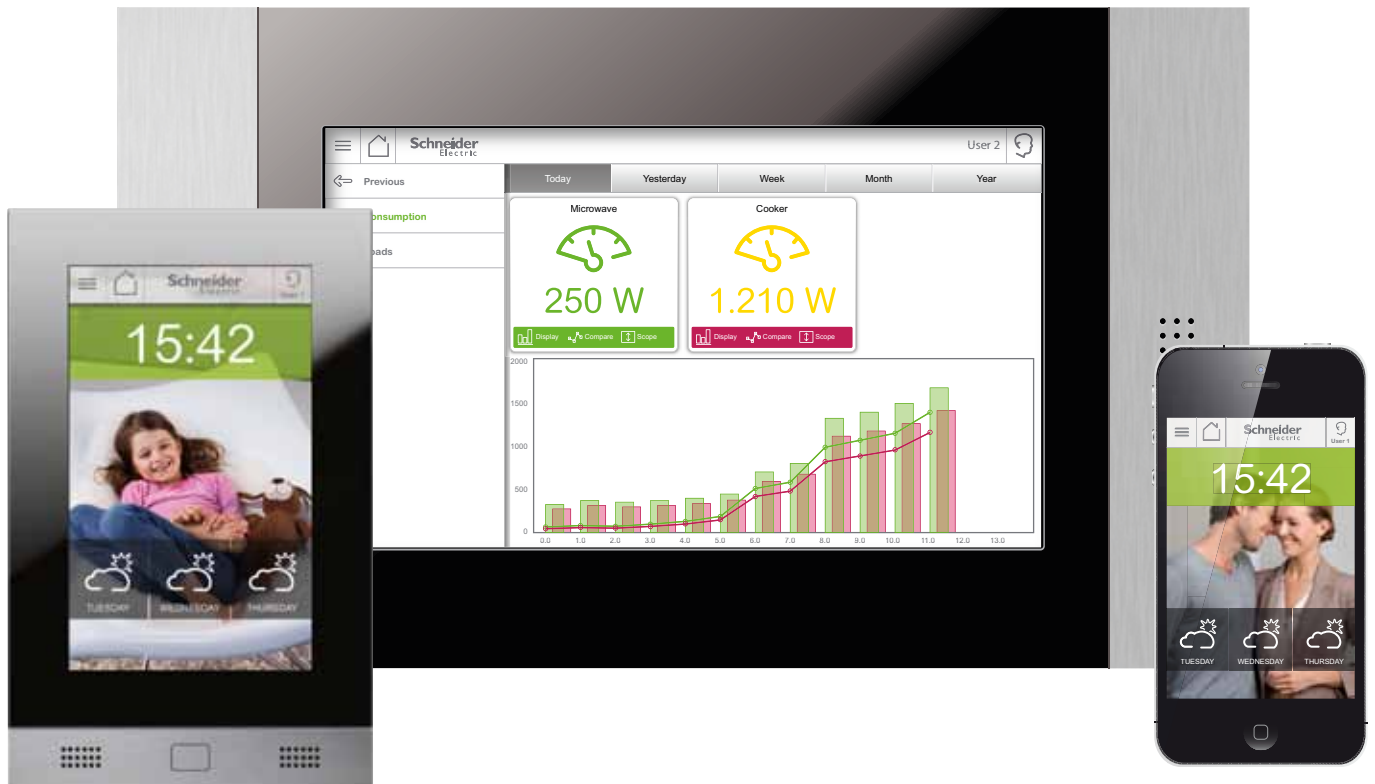


KNX Catalogue

# Plan for intelligent Future Safety

Building Control Systems



# Efficiency is the success factor in modern buildings



Contemporary  
building control  
has got to be easy  
and intelligent

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Intelligent building  
control simply  
implemented!



# KNX combines current requirements into one system

KNX is the intelligent building control system for all areas in which your customers live and work. From single-family houses to office complexes, the comprehensive portfolio of KNX solutions from Schneider Electric enables you to achieve flexible, energy-efficient, comfortable and safe solutions that are easy to plan, install and operate.



A KNX system grows with the customers' requirements

## Comfort

Everyone nowadays expects more comfort and convenience in their domestic and working lives. What is called for are comfortable solutions that can be operated straightforwardly and without fuss, to make living and working easier.

## Cost efficiency

Intelligent networking of all building systems can avoid unnecessary energy consumption and reduce operating costs on a sustained basis. The ability to expand modular KNX system technology ensures economical solutions that are guaranteed to remain tailor-made over the long haul.

## Flexibility

In order to allow for flexible room usage over several decades, it is necessary for building functions to be adapted to the users' requirements easily in a cost-effective way – without the need for walls to be opened up and new cables to be laid.

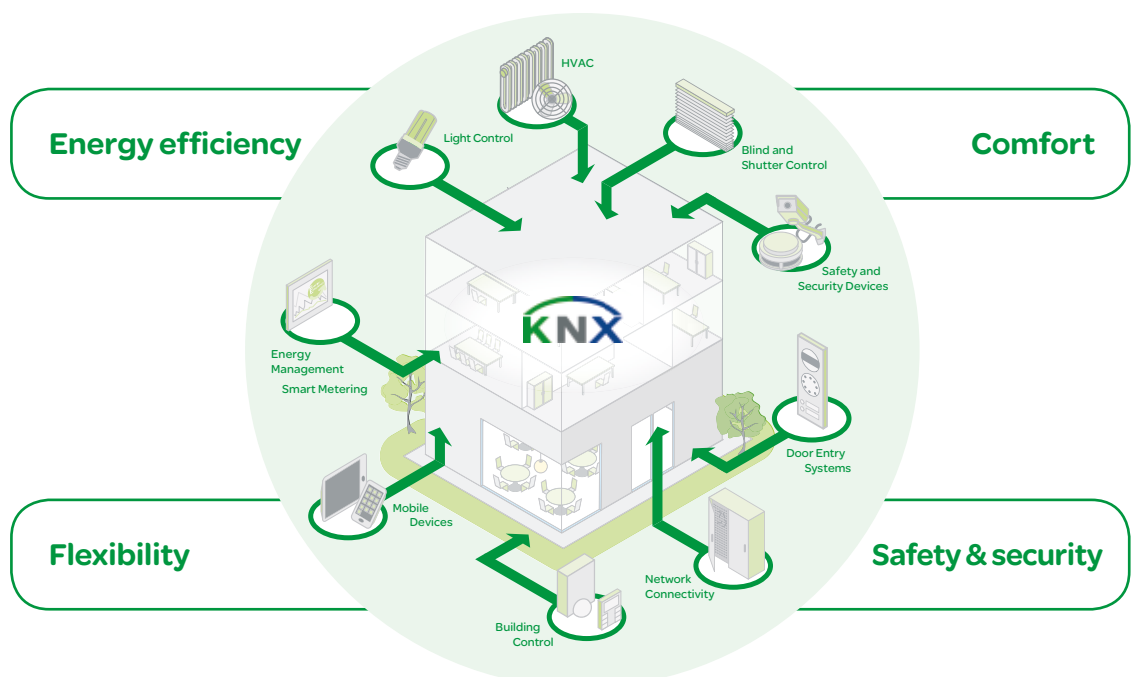
## Safety and security

To let residents feel as safe as possible, building technology must be able to react in a fast and intelligent way in any situation and at any time. No matter whether the building is full of life or quiet.

## Combining building control with the technologies of the future



KNX combines modern building technologies in one system





# The advantages of modern building control with KNX

KNX offers convincing flexibility and cost efficiency. Whether in new buildings or for retrofitting, in private homes, offices, hotels or public buildings – KNX installations can easily be expanded and adapted again and again to new requirements.



The more extensive the application, the greater the efficiency

## Low operating costs

KNX enables the operating costs of a building to be reduced in the long term by only activating loads such as air conditioning, heating and lighting when they are actually needed.

Control is effected automatically by means of time profiles as well as movement and presence detectors, thus leading to significant energy savings in offices and public buildings in particular.

## Time savings

By networking all components via a single bus, it is possible to simplify the cable routing,

reduce the complexity of the wiring and make the system both clearly comprehensible and easy to expand. The Engineering Tool Software (ETS) makes the planning, installation and configuration of KNX easy, quick and efficient.

## Flexibility and expandability

Changes of use are also effortless with KNX. The installation can be adapted to modified requirements or future developments at any time. Additional components can be integrated into the existing bus system without requiring further installation work.

## Greater safety, security, comfort and efficiency in all building types

### Comfort, safety and security in private homes

In private homes, the priority is on control convenience with high levels of safety and security. KNX conveniently connects different utilities together, realising comfortable solutions that are easy to operate and have intelligent functions for when the residents are not at home. Intelligent light and scene control provides the householders with a good feeling of safety and security – day and night.

Furthermore, the possibilities of KNX do not end at the boundaries of the property. Many functions can also be controlled from mobile devices or PCs by online access.

### Flexibility and efficiency in offices and public buildings

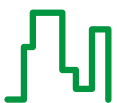
Flexibility and cost efficiency are particularly important when it comes to commercial buildings. Due to their large number of differently used areas, offices and public buildings offer plenty of scope for significant energy-savings.

Automated building control can be perfectly adapted to the behaviour of users, and changed at any time in a straightforward procedure without any major expense.



# Perfect working conditions

During everyday office activities, KNX solutions facilitate work and save energy – fully automatically. Adapting the lighting, heating and air conditioning to particular situations means that optimum working conditions can be achieved at any time. Unnecessary energy consumption is prevented by ensuring that loads are switched off automatically.



A KNX installation in the office raises the degree of comfort and transparency and saves energy at the same time

## Open-plan office

### Flexible lighting control

It is a normal situation in open-plan offices that employees do not leave their workplaces at the same time in the evening, but in dribs and drabs. Presence detectors over the desk clusters detect when areas are no longer being used, and then automatically deactivate the lighting. Constant lighting control ensures an ideal lighting situation from morning to evening.

## Conference room

### Presentation mode at the push of a button

With KNX, it is amazingly easy to prepare a presentation. At the push of a button, the lighting is dimmed in the entire conference room, the blinds and the presentation screen are lowered, the sound system and the beamer are activated, and the heating or air conditioning are set to the required temperature. And if the meeting turns out to be a long one, CO<sub>2</sub> sensors automatically activate the ventilation system.



Roombox



ARGUS presence detector



KNX push-button plus with room temperature control unit



OptiLine





# Secure living comfort

In the home, a modern KNX installation increases the quality of life by allowing everyday building functions to be controlled easily, more comfortably as well as more safely and cost-effectively with KNX.

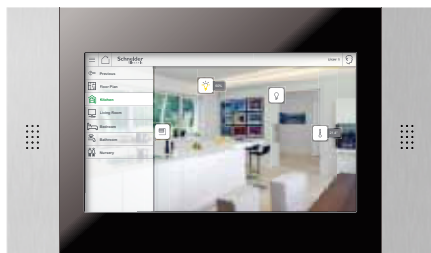


KNX offers various control modes: manual, automatic, or mobile

## Entrance area

### Greater safety and security with central functions

It gives you a good feeling when you can see at a glance on leaving a building that everything is OK. A U.motion Touch Panel in the entrance hall provides an overview of the building status and allows central functions such as the "presence simulation" or "central off". Selected loads such as the lighting or appliances connected to socket-outlets can be integrated in functions of this kind. When the householders are absent, sensors detect storms or excessive sunlight and automatically activate awnings and blinds in the relevant areas as a protective measure.



U.motion Client Touch 10

## Living room

### Individual living comfort

Whether you plan to spend your evening playing games, watching TV or reading, or to have a cosy get-together with friends – every situation can be enhanced with an individual KNX scene. At the push of a single button, all required functions are activated at the same time: blinds are lowered, mood lighting is switched on and the room is heated or air-conditioned to just the right temperature. At the end of the evening, all functions can be switched off at the push of a button, thus putting the entire home into energy-saving night mode.



KNX push-button plus with room temperature control unit



Flush-mounted movement detector



# KNX – Technology with future

## Systematic building control

As a global standard in building system technology, KNX offers unique advantages for all users. By intelligently linking together distributed system components via a bus system, it is possible to offer not only many more possibilities than in a conventional installation but also significant potential in the areas of energy efficiency, safety, security and comfort.



**KNX guarantees that all components are compatible**

### **Future-proof industry standard**

KNX is the world's open standard for house and building system technology. In Europe, KNX is established in the CENELEC EN 50090 and CEN EN 13321-1 and 13321-2 standards, and internationally by the ISO/IEC 14543-3 standard. In China, it corresponds to the GB/Z 20965 standard, and in the USA to the ANSI/ASHRAE 135 standard. KNX is thus a globally valid as well as applied standard. All KNX products from all manufacturers are certified by the KNX association. This means all components are guaranteed to be compatible and future-proof, across all manufacturers. The Engineering Tool Software (ETS) simplifies the tasks of project planning and commissioning of all KNX-certified products.

### **A successful system in figures**

The total of around 300 members in 33 countries speaks for itself. At present, there are more

than 7,000 certified product groups, and about 70,000 projects have been implemented to date. This corresponds to more than 15 million installed KNX products. Today, there are already more than 30,000 ETS users who have been trained in one of the 150 training centres worldwide. Training and development of KNX are supported by 60 partners from the business and training establishments.

### **A strong partner for KNX solutions**

Schneider Electric, the global specialist for energy-efficient solutions, offers a complete assortment of KNX products – from the strong design of the control interface through to all necessary DIN rail system components. All energy-saving solutions can be harmonised with one another in order to compose the right system for every need.



## The intelligent bus principle

In conventional electrical installations, the control functions are mostly carried over the load cables. This means each function needs its own control cable. The intelligent solution is achieved by the installation bus which carries all the control signals in a building, thus making subsequent changes easy to implement.

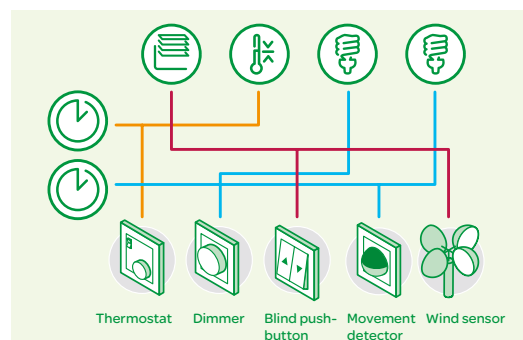


Simply intelligent: an installation bus carries all control signals within a building

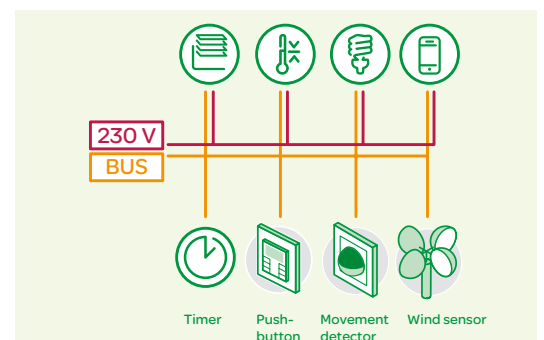
### One bus for maximum flexibility

As part of a conventional electrical installation, it is necessary to specify how and where household systems are to be controlled prior to the building work. A KNX installation is flexible, because all functions can be changed and expanded at any time.

The two-wire installation bus routed in parallel to the 230 V electrical power supply connects all devices and systems of the household technology together, and transmits all the control signals. This is based on fast transmission rates with the highest levels of immunity to interference.



**The conventional solution:**  
many separate lines, meaning less flexibility



**The intelligent KNX solution:**  
the bus carries out all control functions for maximum flexibility



## The system components

All the devices for a KNX installation are connected together by a bus, thus allowing them to exchange data. The function of the individual bus devices is determined by their project planning, which can be changed and adapted at any time.



A KNX system is modular and flexible

### System devices and components

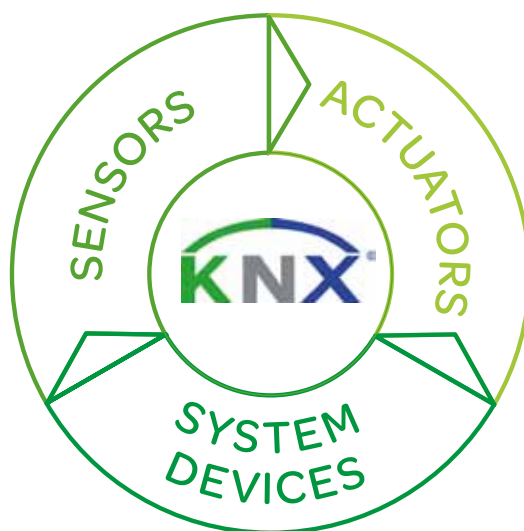
They are needed for the fundamental functioning of the system. They consist of power supply units for generating bus voltage, couplers for connecting bus segments and interfaces for connecting programming devices.

### Sensors

These are the starting point for every action, because they gather information and send it on the bus as a data telegram. This can be information about room temperatures, movements, wind measurements or manually input instructions.

### Actuators

They receive data which are then converted into actions. This can include controlling blinds, dimming lights or controlling heating and air conditioning systems.





### System devices (selection)



Power supply unit



KNX logic module



USB interface  
REG-K



Line coupler



IP Router

### Sensors (selection)



KNX push-button



Movement detector



Room temperature  
control unit



Binary input



Anemometer

### Actuators (selection)



Switch actuator



Dimming actuator



Heating actuator



Blind actuator



KNX DALI-Gateway

# Energy Efficiency with KNX and U.motion

Energy saving is not just a matter of conviction but is also a cost factor that puts money in your customers' pockets. U.motion offers the optimum basis for energy efficiency and can be expanded with additional components as required.



Energy Saving  
just by visualising  
consumption

## Comprehensive energy management

Schneider Electric – leading supplier of energy management solutions – offers a large scope of energy solutions which can be perfectly combined with U.motion. And all of this is from a single source, so compatibility is assured.

LifeSpace Management is a comprehensive solution that you can adapt to each customer's individual situation.

## Measuring and visualising – the first step to savings

Energy efficiency starts with the clear visualisation of all energy consumption values. Studies have shown that simply visualising energy consumption values prompts users to change their behaviour – with a potential saving of up to 10%!



U.motion Touch 10  
Visualisation of Energy Consumption

## Saving and evaluating energy data

The energy data can be measured and recorded, and then displayed as graphs. The longer the time frame of energy recording, the more precisely a building can be evaluated in terms of energy.

Devices with a high energy consumption can easily be identified, and their consumption can be immediately optimised via U.motion. Energy management with U.motion pays off – for you and for your customers.

# Improvement starts with a decision about what to measure

The trump card of LifeSpace Management with U.motion is flexibility. For each requirement, Schneider Electric offers solutions for achieving individual energy efficiency concepts and energy

saving scenarios. The combination of switch actuators with current detection or KNX Energy Meter plus individually set switching times helps your customers to save energy.

## Monitoring with high accuracy

The KNX Energy Meter provides energy measuring with class 1 accuracy for single and groups of devices. It measures total and period energy as well as instant power and provides 8 different alarm thresholds. When consumption exceeds preset limit, commands for switching or dimming can be sent or KNX scenes can be activated. The commands can be provided with adjustable delays if needed. Alarms can be sent to U.motion as well in case of current power, e.g. if server cooling falls below preset limits.

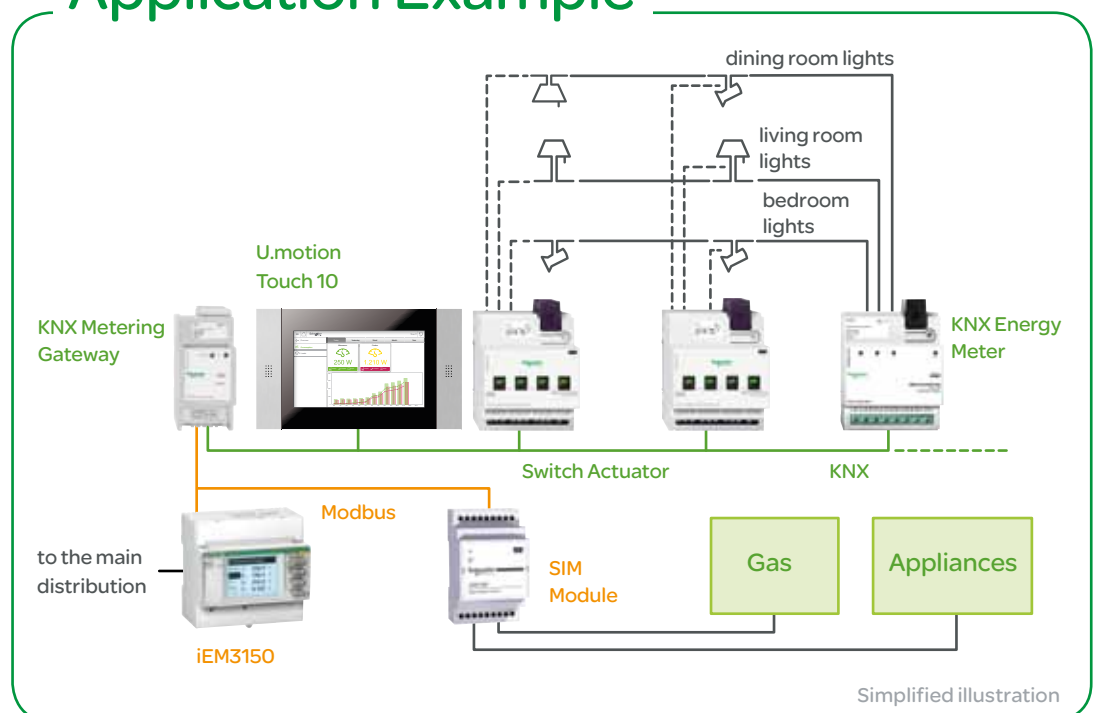


## KNX and Modbus: an intelligent combination

The KNX Metering Gateway combines the expertise of the Modbus open standard with KNX intelligent building control. Measured values of up to 10 meters with a Modbus interface and connected SIM modules for recording gas and water consumption via impulse can be integrated into the KNX Energy Management, thus enabling comprehensive analysis of consumption.



## Application Example



# Become the building manager for your customers

## Flexibility for today and tomorrow

There is a great desire for flexibility in both privately and commercially used properties alike. Demands change, and this has effects on the existing electrical installation. On such occasions in particular, it is good to be able to benefit from the advantages of flexible building control.



KNX configurations can be changed easily and inexpensively

### Flexibility right from the start

Even during the planning of a new building, KNX offers the greatest possible flexibility for future room use. In this way, for example, meeting rooms can be designed for different forms of use – from conference through to presentation mode. It is easy to reconfigure individual KNX scenes, even when individual employees change locations.

### Changing the use of rooms and floors

Whether a private home, an office complex or a hotel – the KNX structure can be adapted

and expanded in response to changes of use or modified partition positions without requiring new installation cables. This applies to retrofitting individual functions just as much as creating new central functions. Functional buildings with a KNX installation are especially attractive because it is easy to gear them up for new requirements; consequently, they remain straightforward to let or sell. Thanks to the comfortable configuration with ETS, it is quick, easy and inexpensive to make changes of function – from the single room to the entire office floor.







## Profitability for your customers

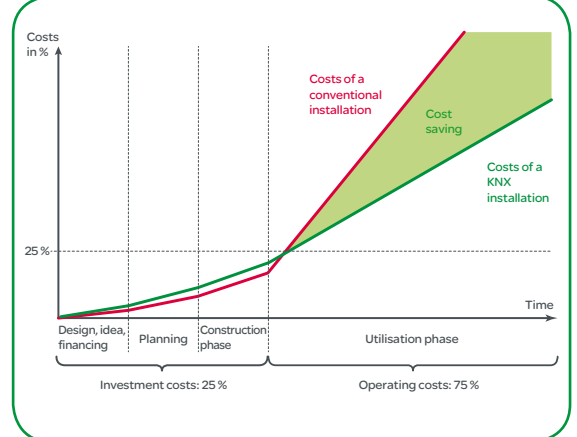
Factors that are decisive for the cost efficiency of a KNX installation include the ongoing operational costs and, in particular, the investment costs, compared to conventional systems. The required range of functions is quite decisive in this case, because KNX will very quickly make itself pay if the functions go beyond those possible from a conventional solution.



With KNX, it is possible to save up to 30% operating costs in the long term

When it comes to a comparison between the investment costs of a KNX system and those of a conventional installation, what counts is the required range of functions. Often, even simple scene functions can be implemented more cost-effectively with KNX than on a conventional basis. One aspect to remember with regard to investment costs concerns the lower operating costs. As time goes by, building management requirements will change: private homes will be inhabited by several generations, rooms in commercial objects are put to different uses in their lifetime due to reorganisation or new tenants. Whereas a change of use or an expansion of a conventional installation is complicated and expensive, the flexibility of a KNX system pays off due to the minimum level of complexity. KNX opens the door to many possible savings in terms of a building's operating costs. From demand-related lighting control to energy management, the potential savings are determined by the depth of use.

### Efficient and profitable for your customers



# Flexible in every detail

At Schneider Electric, comfort, safety, security and flexibility are combined with an extensive variety in design and function. Customers' wishes can be met easily, from the movement detector to the touch panel.

## Example: Merten System M



KNX push-buttons



KNX push-button 4-gang plus with room temperature control unit



KNX push-button 2-gang plus with room temperature control unit



KNX push-button 1-gang plus



KNX push-button 2-gang plus



KNX push-button 4-gang plus



KNX push-button 4-gang plus with IR receiver



Push-button modules



Push-button 1-gang



Push-button with 1/0 imprint 1-gang



Push-button 2-gang



Push-button with 1/0 imprint and up/down arrows 2-gang



KNX Movement and presence detectors



KNX ARGUS movement detector 180, flush-mounted



KNX ARGUS movement detector 180/2.20, flush-mounted



KNX ARGUS presence detector, flush-mounted

## Example: Unica



KNX push-buttons



KNX push-button



KNX push-button with  
IR receiver



KNX push-button,  
2-gang



KNX room temperature  
control unit



KNX Movement and  
presence detectors



KNX movement detector

## Example: Altira



KNX push-buttons



KNX push-button



KNX push-button with  
IR receiver



KNX push-button,  
2-gang



KNX room temperature  
control unit



KNX Movement and  
presence detectors



KNX movement detector

# Innovations

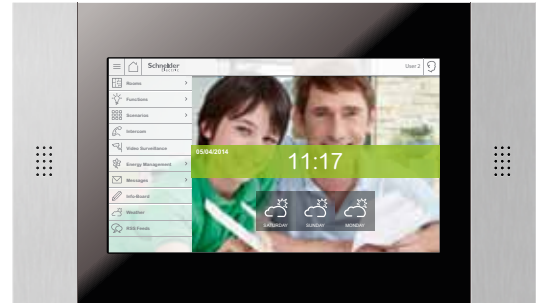
## U.motion LifeSpace Management



U.motion combines simplicity, flexibility and energy efficiency

### Bringing spaces to life

U.motion is an open, maximally compatible system for KNX building control that provide every individual function from a single source. From a basic installation through a large server solution with numerous Touch Panels – U.motion is freely scalable. The Touch Panels are available in three different sizes: with 7", 10" and 15" screen as well as a special version of the U.motion KNX Server Plus integrated in an U.motion Touch Panel 10" or 15".



## U.motion KNX Server



Adapt to requirements while keeping the right price

### Two versions available

The U.motion KNX Server is the entry point to the U.motion solution and is an ideal option for those cases where Apps and mobile devices or 7" Touch Panels will be used for visualisation and control. Where a high-performance solution is required, the U.motion KNX Server Plus allows for establishing more complex systems that integrate the larger Touch Panel versions or integration of Door Entry systems.



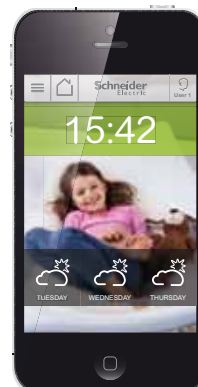
## U.motion Apps



Scan the QR-Code to discover more about U.motion

### 100% mobile

The U.motion Interface is standardised on all control devices. Whether you use a Touch Panel, smartphone or tablet, you always use the same interface. This makes U.motion even more comfortable. The U.motion Control App and the Communication App are fully free of charge and can be downloaded for free.



# Innovations

## InSideControl



Available on the  
common platforms

### Upgrade KNX to the next comfort level

Whether in a private home or small office buildings, as part of a new installation or when retrofitting existing KNX installations: Schneider Electric InSideControl easily turns smartphones and tablets into remote controls for building functions. Controlling lights and temperature, calling up scenes or visualizing the energy consumption are just a few of the possibilities the app comes up with.



## KNX Energy Meter



Easy  
visualisation

### High precision for low consumption

The KNX Energy Meter from Schneider Electric allows for measuring the energy consumption of individual devices or groups of devices. Individual energy-saving functions can be programmed, such as dimming, switching and retrieving scenes, as can alarms for specific threshold values. This actively helps to save energy.



## KNX Access Control



One software package  
for all tasks, one key card  
for all areas



### Easy access to comfort and efficiency

KNX Access Control is an access control system for hotels that combines simplicity, flexibility and efficiency. In addition to its actual functions, it improves convenience and reduces costs. KNX integration provides practical added value that benefits not just the guest but also the hotel management.



# KNX

## Overview power supplies

	KNX power supply REG-K			KNX power supply REG-K with emergency power input		
						
Article number	MTN684016	MTN684032	MTN684064	MTN683816	MTN683832	MTN683890
Output current	160 mA	320 mA	640 mA	160 mA	320 mA	640 mA
Maximum number of bus devices	32	64	64	32	64	64
Input voltage, 50-60 Hz	AC 110-230 V			AC 110-230 V		
Output voltage	DC 30 V			DC 30 V		
Device width	4 modules			4 modules		
<b>Connections and displays</b>						
LED display for maximum current	■			■		
Reset switch	■			■		
Connection for emergency power supply art. no. MTN683901	—			■		

## Bus voltage supply



The current product database can be obtained from the Internet at <http://www.schneider-electric.com> or [PI@net](mailto:PI@net).

### KNX power supply REG-K/160 mA



Version	Art. no.
light grey	<b>MTN684016</b>

For generating the bus voltage for a line with up to 32 bus devices.  
 With integrated choke to decouple the power supply from the bus and a push-button to disconnect the power and reset the bus devices connected to the line.  
 For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.  
**Nominal voltage:** AC 110-230 V  $\pm 10\%$   
**Operating voltage:** min. AC 92 V - max. AC 253 V  
**Mains frequency:** 50-60 Hz  $\pm 10\%$   
**Output voltage:** DC 30 V  
**Output current:** max. 160 mA, short-circuit-proof  
**Device width:** 4 TE = approx. 72 mm  
**Contents:** With bus connecting terminal and cable cover.

### KNX power supply REG-K/160 mA with emergency power input



Version	Art. no.
light grey	<b>MTN683816</b>

For generating the bus voltage for a line with up to 32 bus devices. The emergency power supply REG can be connected in order to buffer the bus voltage.  
 With integrated choke to decouple the power supply from the bus and a push-button to disconnect the power and reset the bus devices connected to the line.  
 For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.  
**Nominal voltage:** AC 110-230 V  $\pm 10\%$   
**Operating voltage:** min. AC 92 V - max. AC 253 V  
**Mains frequency:** 50-60 Hz  $\pm 10\%$   
**Output voltage:** DC 30 V  
**Output current:** max. 160 mA, short-circuit-proof  
**Device width:** 4 TE = approx. 72 mm  
**Accessories:** REG emergency power supply MTN683901  
**Contents:** With bus connecting terminal and cable cover.

# System components



### KNX power supply REG-K/320 mA



Version	Art. no.
light grey	<b>MTN684032</b>

For generating the bus voltage for a line with up to 64 bus devices.  
 With integrated choke to decouple the power supply from the bus and a push-button to disconnect the power and reset the bus devices connected to the line.  
 For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.  
**Nominal voltage:** AC 110-230 V ±10%  
**Operating voltage:** min. AC 92 V - max. AC 253 V  
**Mains frequency:** 50-60 Hz ±10%  
**Output voltage:** DC 30 V  
**Output current:** max. 320 mA, short-circuit-proof  
**Device width:** 4 TE = approx. 72 mm  
**Contents:** With bus connecting terminal and cable cover.

### KNX power supply REG-K/320 mA with emergency power input



Version	Art. no.
light grey	<b>MTN683832</b>

For generating the bus voltage for a line with up to 64 bus devices. The emergency power supply REG can be connected in order to buffer the bus voltage.  
 With integrated choke to decouple the power supply from the bus and a push-button to disconnect the power and reset the bus devices connected to the line.  
 For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.  
**Nominal voltage:** AC 110-230 V ±10%  
**Operating voltage:** min. AC 92 V - max. AC 253 V  
**Mains frequency:** 50-60 Hz ±10%  
**Output voltage:** DC 30 V  
**Output current:** max. 320 mA, short-circuit-proof  
**Device width:** 4 TE = approx. 72 mm  
**Accessories:** REG emergency power supply MTN683901  
**Contents:** With bus connecting terminal and cable cover.



### KNX power supply REG-K/640 mA



Version	Art. no.
light grey	<b>MTN684064</b>

For generating the bus voltage for a line with up to 64 bus devices.  
 With integrated choke to decouple the power supply from the bus and a push-button to disconnect the power and reset the bus devices connected to the line.  
 For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.  
**Nominal voltage:** AC 110-230 V ±10%  
**Operating voltage:** min. AC 92 V - max. AC 253 V  
**Mains frequency:** 50-60 Hz ±10%  
**Output voltage:** DC 30 V  
**Output current:** max. 640 mA, short-circuit-proof  
**Device width:** 4 TE = approx. 72 mm  
**Contents:** With bus connecting terminal and cable cover.

### KNX power supply REG-K/640 mA with emergency power input



Version	Art. no.
light grey	<b>MTN683890</b>

For generating the bus voltage for a line with up to 64 bus devices. The emergency power supply REG can be connected in order to buffer the bus voltage.  
 With integrated choke to decouple the power supply from the bus and a push-button to disconnect the power and reset the bus devices connected to the line.  
 For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.  
**Nominal voltage:** AC 110-230 V ±10%  
**Operating voltage:** min. AC 92 V - max. AC 253 V  
**Mains frequency:** 50-60 Hz ±10%  
**Output voltage:** DC 30 V  
**Output current:** max. 640 mA, short-circuit-proof  
**Device width:** 4 TE = approx. 72 mm  
**Accessories:** REG emergency power supply MTN683901  
**Contents:** With bus connecting terminal and cable cover.



# System components



### REG emergency power supply



Version	Art. no.
light grey	<b>MTN683901</b>

To buffer the bus voltage. If a complete mains failure occurs, an external lead gel battery with a voltage of DC 12 V (SELV) can be connected to the REG power supply for buffering. The lead gel battery is recharged or maintained in its charged state by integrated charging electronics.

A binary input can be connected in order to register the operational statuses (mains voltage, error warning, battery operation).

For installation on DIN rails TH35 according to EN 60715. A data rail is not necessary.

**Nominal voltage:** AC 110-230 V  $\pm 10\%$

**Operating voltage:** min. AC 92 V - max. AC 253 V

**Mains frequency:** 50-60 Hz  $\pm 10\%$

**Output to power supply:**

**Output voltage:** DC 30 V  $\pm 2$  V

**Output current:** without battery with mains supply max. 300 mA, with battery without mains supply max. 640 mA

**Short-circuit current:** < 1.5 A

**Charging current:** max. 1 A

**Connections:** plug-in screw terminal for main connector, operating state (4-pin, 3 floating contacts) and emergency power supply. Plug-in terminal for battery connection (two 1 mm pins)

**Device width:** 4 modules = approx. 72 mm

**In KNX, to be completed with:** KNX power supply REG-K/160 mA with emergency power input MTN683816, KNX power supply REG-K/320 mA with emergency power input MTN683832, KNX power supply REG-K/640 mA with emergency power input MTN683890

**Accessories:** Lead gel battery MTN668990, MTN668991, Binary input REG-K/4x24 MTN644892, Power supply REG, 24 V DC / 0.4 A MTN693003

**Contents:** With connecting terminal and cable cover



### Lead gel battery



Version	Art. no.
7.2 Ah	<b>MTN668990</b>

Lead gel battery to connect to the emergency input of the power supply 320 REG-K with battery connection.

**Nominal voltage:** DC 12 V

**Capacity:** 7.2 Ah

**In KNX, to be completed with:** REG emergency power supply MTN683901

### Lead gel battery



Version	Art. no.
	<b>MTN668991</b>

Lead gel battery for connecting to the emergency power supply REG.

**Nominal voltage:** DC 12 V

**Capacity:** 18 Ah

**In KNX, to be completed with:** REG emergency power supply MTN683901

## System coupler



### Coupler REG-K



Version	Art. no.
light grey	<b>MTN680204</b>

For logical connection and electrical isolation of lines and areas.  
 For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.  
**KNX software functions:** The device can be used as a backbone / line coupler or as a repeater for forming line segments in existing or new KNX systems. The function as a coupler or repeater can be parameterised.  
**Functions as coupler**  
 Use as a backbone or line coupler depending on the physical address. Reduction of the bus load through the filter function (filter table). Support of the full address area (Group 0-31) with filter function. Forwarding of physically addressed telegrams (line => main line, main line => line) can be parameterised. Forwarding of group telegrams (line => main line, main line => line) can be parameterised. Telegram repetitions in the event of transmission errors can be set separately for group telegrams, broadcast telegrams and physically addressed telegrams. Telegram confirmation for group telegrams and physically addressed telegrams can be parameterised separately.  
**Functions as repeater**  
 Expansion of a line to max. 4 line segments with up to 64 participants each (incl. line coupler or repeater). Telegram repetitions in the event of transmission errors can be set separately for group telegrams, broadcast telegrams and physically addressed telegrams. With repeaters, the telegrams are always forwarded.  
**Device width:** 2 modules = approx. 36 mm  
**Note:** With the application coupler/repeater 7116/1.1, the entire group address range from 0 to 31 can be used for the filter function of the coupler (support of extended group addresses). This application requires ETS 4.1 or higher.  
**Contents:** With 2 bus connecting terminals.



### KNX/IP router REG-K



Version	Art. no.
light grey	<b>MTN680329</b>

The KNX/IP router enables telegrams to be forwarded between different lines via LAN (IP) as a rapid backbone. The device can additionally serve as a programming interface in order to connect a PC with the KNX bus (e.g. for ETS programming with suitable ETS). The IP address can be assigned dynamically via a DHCP server or via manual configuration (ETS parameter). The device operates in accordance with the KNXnet/IP specification using Core, device management, tunnelling and routing.  
 The KNX/IP router forwards telegrams in both directions whilst taking a filter table into account and can buffer up to 150 telegrams.  
 For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.  
**Supply voltage:** DC 12-30 V (at DC 24 V 40 mA), AC 12-24 V  
**Device width:** 2 modules = approx. 36 mm  
**In KNX, to be completed with:** Power supply REG, 24 V DC / 0.4 A MTN693003, Power supply REG, 24 V DC / 1.25 A MTN693004, Power supply REG, AC 24 V/1 A MTN663529, Also alternatively Power over Ethernet (PoE).  
**Contents:** With bus connecting terminal.

## System accessories



### Bus connecting terminal



Version	Art. no.
red/dark grey	<b>MTN689701</b>

For connecting max. 4 core pairs to an KNX device, can also be used as a branch terminal.  
 Consists of two interlocked terminal parts in red (“+”) and dark grey (“-“), each with 4 plug-in terminals. For solid conductors with a diameter of 0.6 to 0.8 mm.  
**Contents:** 1 PU = 50 terminals.

### Branch terminal, yellow/white



Version	Art. no.
yellow/white	<b>MTN689702</b>

Branch terminal comprising two interlocking terminal parts in yellow and white, each with 4 plug-in terminals. For solid conductors with a diameter of 0.6 to 0.8 mm.  
 For wiring the yellow/white cores of the bus cable.  
**Contents:** 1 PU = 50 terminals.



### IR universal remote control



Version	Art. no.
black/white	<b>MTN5761-0000</b>

10 channel IR remote control. For the control of all TELE sensor covers, blind push-buttons with IR receiver, presence detectors with IR receivers and KNX devices with IR receivers.  
**Battery:** 2 microcells (IEC LR 0.3 AAA) (not included)  
**Range:** up to 12 m  
**Receiver:** TELE sensor cover System M MTN5779.., MTN5703..  
 Artec/Tracent/Antique MTN5709..  
 Blind push-button with IR receiver and sensor connection System M MTN5880.., MTN5864..  
 Artec/Tracent/Antique MTN5844..  
 ARGUS Presence Master with IR, relay 1-gang MTN5510-1119  
 ARGUS Presence Master with IR, relay 2-gang MTN5510-1219  
 ARGUS Presence Master with IR, 1-10 V MTN5510-1419  
 ARGUS Presence Master with IR, DALI MTN5510-1519  
 KNX ARGUS Presence with light control and IR receiver MTN6309..  
 Push-button, 4-gang plus with IR receiver System M MTN6279.., MTN6175..  
 Artec/Tracent/Antique MTN6284..  
 KNX 1-gang push-button with IR receiver Altira ALB4x152  
 Unica MGU3.532.18, MGU3.532.25  
 Unica Top MGU3.532.12, MGU3.532.30  
 Unica MGU5.532.18, MGU5.532.25  
 Unica Top MGU5.532.12, MGU5.532.30  
 Unica MGU50.532.18, MGU50.532.25  
 Unica Top MGU50.532.12, MGU50.532.30  
 Push-button 4-gang plus with room temperature control unit System M MTN6214-03.. /-04..  
 Artec MTN6214-40.. /-41..  
**Contents:** Without battery.

## Logic module



### KNX Logic module Basic REG-K



Version	Art. no.
light grey	<b>MTN676090</b>

In KNX installations, the logic module serves as a logic and control device. It has 10 logic, 10 filter/timer, 8 converter and 12 multiplexer modules.

With 3 freely programmable push-buttons and 3 status LEDs. They can be assigned control and test functions and can be operated on the device.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

#### KNX software functions:

##### 10 logic modules (AND, OR, XOR)

- Each with up to 8 binary input objects and an output object.
- Input and output object inversion.
- Output disable via gate function.
- Behaviour of each input object after bus reset.
- Adjustable sending behaviour.

##### 10 filter and timer modules

- Binary input objects and an output object with time delays.
- Binary input object filtering before output.
- Output disable via gate function.
- Behaviour of each input object after bus reset.
- Adjustable sending behaviour.

##### 8 converter modules

- Conversion of 1 bit switching telegrams into 2 bit priority control.
- Conversion of 1 bit switching telegrams into 8 bit value telegrams.
- Conversion of 8 bit value telegrams into 1 bit switching telegrams.
- Output disable via gate function.
- Behaviour of each input object after bus reset.
- Adjustable sending behaviour.

##### 12 multiplexer modules (lighting control)

Multiplexer modules are used to selectively control telegrams, e.g. to toggle between single room and total room control for conference rooms with partition walls.

- Supported telegram formats by module: 1 bit, 2 bit, 4 bit, 8 bit, 2 byte.
- A module can be used for the 4 byte format.
- Telegram forwarding/blocking in one or both directions using the control object.
- Adjustable gate behaviour.
- Adjustable control object behaviour.
- Output disable via gate function.
- Adjustable sending behaviour.
- Adjustable sending delay.

##### Push-button and LED assignment

- The three push-buttons and the three LEDs can be freely assigned with binary objects.
- Behaviour per LED.
- Behaviour per push-button.

##### Behaviour after bus reset

- Adjustable module start-up delay after bus voltage recovery.

**Device width:** 2.5 module = approx. 45 mm

## Energy measurement



## KNX Energy Meter, REG-K/3x230 V/16 A



Version	Art. no.
light grey	<b>MTN6600-0603</b>

Device for measuring and monitoring energy consumption at up to three channels. Different phases can be connected to the channels. The data is transmitted to the KNX bus for analysis and visualisation.

There is a resettable energy counter and a total energy counter for each channel. The device saves the values in the event of a power failure. If one of up to 8 threshold values is exceeded, telegrams for energy-saving and alarm functions can be sent to different loads via the bus. The energy meter can receive energy values measured externally (e.g. from other energy meters or switch actuators with current detection) via the KNX bus and summate them.

With screw terminals.

Suitable for installation on DIN rails TH35 according to EN 60715.

**KNX software functions: Functions per channel:**

Adjustable energy unit (Wh/kWh). Energy meter (resettable). Total energy meter. Adjustable transmission of power and current values.

Energy-saving function: telegrams for saving energy (switch object, value object, dimming object, scene object and temperature object) are sent when one of up to 8 threshold values is exceeded. 8 separately adjustable threshold values with tolerance (selectable via object).

Adjustable tolerances and delays.

Alarm function: alarms are sent when current values fall above or below threshold values.

Adjustable tolerances and delays.

**Functions for all channels:**

Consumption values with time stamp. Time can be received via an external KNX timer.

Adjustable nominal voltage (210-240 V). 4 energy counters to count separately depending on tariff. Summation of energy values from several channels and external energy values. Status responses regarding bus voltage failure, exceedance of power, total power and tariff meters.

**Energy measurement:**

**Number of channels:** 3

**Nominal voltage:** AC 220/230 V, 50/60 Hz

**Max. current per channel:** 16 A

**Min. current per channel:** 20 mA (power factor 1)

**Detection accuracy:**

Power and current measurement (calculated): max. 10 %

**Capacity of total power meter:** > 2 million kWh

**Temperature range:** -5°C to + 45°C

**Type of protection:** IP 20

**Device width:** 4 modules = approx. 72 mm

# Energy measurement



## KNX Metering Gateway Modbus REG-K



Version	Art. no.
light grey	<b>MTN6503-0201</b>

The KNX Metering Gateway Modbus REG-K is a gateway between a Modbus installation and the KNX bus.

The device transmits measured power and consumption values from connected Modbus power counters to the KNX bus. These power counter data can be used to evaluate, visualise, or reduce the power consumption in your KNX installation.

Up to ten Modbus counters can be connected to the gateway in parallel with RTU transfer protocol. These counters send data to the KNX via the gateway. The gateway always works in master mode, and the connected Modbus devices work in slave mode. Communication from KNX to the Modbus is not possible. The ETS application has pre-programmed templates for 17 different Schneider Electric models of Modbus counters. In ETS, a corresponding template can be assigned to each connected Modbus counter. The corresponding Modbus registers are then automatically assigned to the communication objects on the KNX side.

The following models of Schneider Electric Modbus counters are supported:

- PM9C universal meter
- PM210 universal meter
- PM710, PM750 universal meters
- PM810, PM820, PM850, PM870 universal meters
- PM1200, PM6200 universal meters
- iEM3150, iEM3155, iEM3250, iEM3255 energy counters
- PM3250, PM3255 universal meters
- SIM10M Smart Interface Module

For Modbus devices without a template, up to 40 Modbus registers can be directly assigned to the communication objects on the KNX side.

The device is supplied with power via the KNX bus.

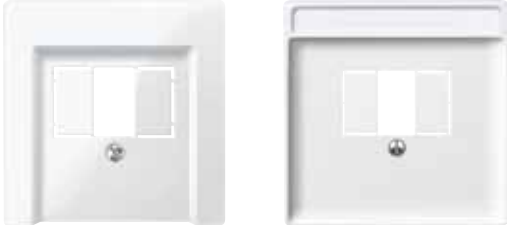
With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal.

With screw terminals.

**KNX software functions:** Modbus communication settings (baud rate, parity, delays). Selection of pre-programmed templates for 17 Modbus counters with detection of: voltage (phase 1-3), current (phase 1-3), frequency, power factor, active power, reactive power, apparent power, active energy, reactive energy, 6 binary counters, 2 analogue inputs (using Smart Interface Module SIM10M template). In addition to the template, direct access to Modbus registers and manual assignment of the register values to communication objects are possible. Diagnostic function: active and passive evaluation of errors in the Modbus installation. All values can be reset by a reset object.

**Device width:** 2.5 modules = approx. 44 mm

## Data interfaces



### Central plate with square opening



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN296044</b>
<input type="checkbox"/> polar white, glossy	<b>MTN296019</b>
<input type="checkbox"/> active white, glossy	<b>MTN296025</b>
<input checked="" type="checkbox"/> anthracite	<b>MTN297914</b>
<input type="checkbox"/> aluminium	<b>MTN297960</b>

For System M.  
for loudspeaker connection inserts or flush-mounted USB interface.  
**To be completed with:** Telephone socket-outlet TAE, 1-gang MTN465206, Telephone socket-outlet TAE, 3-gang MTN465226/36, Combination socket-outlet RJ45/TAE (Cat 3) MTN465707, Loudspeaker connection insert, 1-gang MTN466919/14, Loudspeaker connection insert, 2-gang MTN467019/14, USB power supply MTN4366-0000, USB interface, flush-mounted MTN681799

### Central plate with square opening



Version	Art. no.
<input checked="" type="checkbox"/> white	<b>MTN297844</b>
<input type="checkbox"/> polar white	<b>MTN297819</b>
<input type="checkbox"/> aluminium	<b>MTN297860</b>
<input checked="" type="checkbox"/> stainless steel	<b>MTN297846</b>

For Artec, Tracent, Antique.  
for loudspeaker connection inserts or flush-mounted USB interface.  
**To be completed with:** Telephone socket-outlet TAE, 1-gang MTN465206, Telephone socket-outlet TAE, 3-gang MTN465226/36, Combination socket-outlet RJ45/TAE (Cat 3) MTN465707, Loudspeaker connection insert, 1-gang MTN466919/14, Loudspeaker connection insert, 2-gang MTN467019/14, USB power supply MTN4366-0000, USB interface, flush-mounted MTN681799  
**Accessories:** Labelling strips for switches, socket-outlets Artec/Tracent/Antique MTN395019



### USB interface, flush-mounted



Version	Art. no.
	<b>MTN681799</b>

For connecting a programming or diagnostics device with a USB1.1 or USB2 interface to the KNX.  
For screw mounting in the size 60 installation box. With integrated bus coupler. The device is connected to the bus with a bus connecting terminal. Compatible with ETS 3.  
**Mounting depth:** 20 mm  
**To be completed with:** Central plate with square opening System M MTN2960.., MTN2979.., Artec/Tracent/Antique MTN2978..  
**Contents:** With bus connecting terminal.



### USB interface REG-K



Version	Art. no.
light grey	<b>MTN681829</b>

For connecting a programming or diagnostics device with a USB1.1 or USB2 interface to the KNX.  
With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.  
**Device width:** 2 modules = approx. 36 mm  
**Contents:** With bus connecting terminal and cable cover.

## Gateways



Solutions are tested and validated according to Schneider Electric process

### homeLYnk



Version	Art. no.
	<b>LSS100100</b>

Logic Controller  
homeLYnk is the easiest way to visualise and control a complete Home Automation Solution in a KNX and Modbus networks.

homeLYnk can be used in several ways:

- As an user interface to display and control relevant informations on mobile devices
- As a gateway to translate and enable communication between different products
- As an aggregator to stock, analyze, and send the data (.csv file for example)
- As an event controller that sends email in case of issues

**Applications:**

- Logical functions
- WEB SCADA visualization for PC and touch-devices
- Cross-standard gateway between KNX and Modbus RTU/TCP
- BACnet Server (150 points)
- Integration with third party devices over RS-232 (IR, AV)
- Scheduling
- Camera streaming
- Data logger with trends

**Supply voltage:** 24 V DC

**Power consumption:** 2 W

**LED indicator 1:** Green LED (CPU load)

**LED indicator 2:** Green LED (Operation) or Red LED (Reset)

**Interface:** 1x KNX, 1x10BaseT/100BaseTX, 1x RS-485 (incl. Polarization resistors 47 kΩ, no termination), 1x RS-232, 1x USB2.0, 1x Reset push button

**Terminal:**

**KNX bus:** Bus connecting terminal 2 x 0.8 mm

**Power supply:** Clamp, 0.5 mm<sup>2</sup>–1.5 mm<sup>2</sup>

**Serial:** Clamp, 0.5 mm<sup>2</sup>–1.5 mm<sup>2</sup>

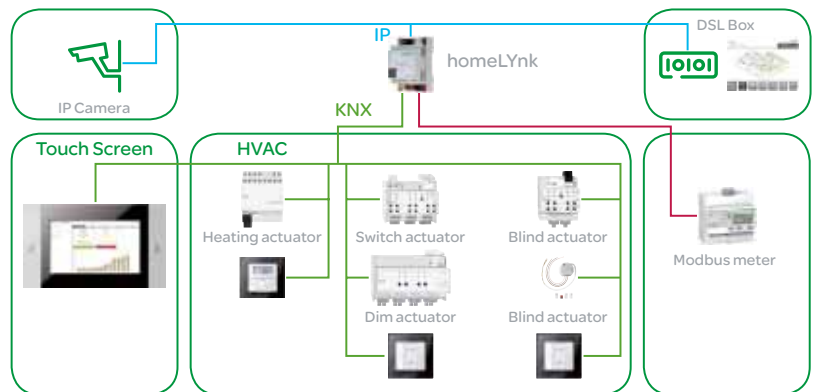
**Operation:** -5°C to +45°C

**Environment:** Can be used at elevations up to 2000 m above sea level (MSL)

**Max. humidity:** 93 %, no condensation

**Dimension:** 90 x 52 x 58 mm (HxWxD)

**Device width:** 3 modules = approx. 54 mm







Solutions are tested and validated according to Schneider Electric process

### spaceLYnk



Version

Art. no.

**LSS100200**

#### Logic Controller

spaceLYnk is the easiest way to build a complete Building Automation Solutions for commercial segments :

- Complete Building Automation solution for Small and Medium building with a complete architecture including Light and Room Control (KNX, DALI Control), Metering (Modbus offer, Smartlink RTU and IP), and boiler management (SSL)
- Complete Building Automation solution for Large Building with a complete architecture managed by SBO (BMS from Schneider Electric) and including Light and Room Control (KNX, DALI Control) and Metering (Modbus offer, Smartlink RTU and IP)

spaceLYnk can be used in several ways:

- As a gateway to translate and enable communication between different products
- As an aggregator to stock, analyze, and send the data (.csv file for example)
- As an user interface to display relevant informations on mobile devices
- As an event controller that sends email in case of issues

#### Applications:

- Logical functions
- WEB SCADA visualization for PC and touch-devices
- Cross-standard gateway between KNX and Modbus RTU/TCP
- BACnet Server (500 points)
- Integration with third party devices over RS-232 (IR, AV)
- Scheduling
- Camera streaming
- Data logger with trends

**Supply voltage:** 24 V DC

**Power consumption:** 2 W

**LED indicator 1:** Green LED (CPU load)

**LED indicator 2:** Green LED (Operation) or Red LED (Reset)

**Interface:** 1x KNX, 1x10BaseT/100BaseTX, 1x RS-485 (incl. Polarization resistors 47 kΩ, no termination), 1x RS-232, 1x USB2.0, 1x Reset push button

#### Terminal:

**KNX bus:** Bus connecting terminal 2 x 0.8 mm

**Power supply:** Clamp, 0.5 mm<sup>2</sup>–1.5 mm<sup>2</sup>

**Serial:** Clamp, 0.5 mm<sup>2</sup>–1.5 mm<sup>2</sup>

**Operation:** -5°C to +45°C

**Environment:** Can be used at elevations up to 2000 m above sea level (MSL)

**Max. humidity:** 93 %, no condensation

**Dimension:** 90 x 52 x 58 mm (HxWxD)

**Device width:** 3 modules = approx. 54 mm



### KNX/IP router REG-K



Version	Art. no.
light grey	<b>MTN680329</b>

The KNX/IP router enables telegrams to be forwarded between different lines via LAN (IP) as a rapid backbone. The device can additionally serve as a programming interface in order to connect a PC with the KNX bus (e.g. for ETS programming with suitable ETS).

The IP address can be assigned dynamically via a DHCP server or via manual configuration (ETS parameter). The device operates in accordance with the KNXnet/IP specification using Core, device management, tunnelling and routing.

The KNX/IP router forwards telegrams in both directions whilst taking a filter table into account and can buffer up to 150 telegrams.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**Supply voltage:** DC 12-30 V (at DC 24 V 40 mA), AC 12-24 V

**Device width:** 2 modules = approx. 36 mm

**In KNX, to be completed with:** Power supply REG, 24 V DC / 0.4 A MTN693003, Power supply REG, 24 V DC / 1.25 A MTN693004, Power supply REG, AC 24 V/1 A MTN663529, Also alternatively Power over Ethernet (PoE).

**Contents:** With bus connecting terminal.



### TeleController Plus REG-K



Version	Art. no.
light grey	<b>MTN680790</b> <b>Discontinued</b>

The TeleController Plus REG-K connects the telephone network with conventional inputs/outputs and KNX.

- Six switch outputs for conventional relays or surge switches.
- Six connections, in order to show the current switching status of the surge switch.
- Six signal inputs for break or make contacts. The TeleController can forward incoming signals to selected participants.
- Up to 20 communication objects for KNX. To control devices or display the statuses.
- Connection for an alarm acknowledgement key to reset active messages, for example.
- Connection to functionally switch off the TeleController.

This is controlled using a conventional DTMF telephone or a DTMF hand transmitter. Messages are conveyed by announcements, SMS, e-mail or fax to the selected participants. The corresponding texts can be changed with the handset.

The device is operated with a rotary knob and is supported by display texts and announcements. The PC software provided enable convenient operation and configuration.

With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using screw terminals; a data rail is not necessary.

**Power supply:** DC 12-24 V

**Power consumption:** 90 mA at 24 V (open circuit), 790 mA at 24 V (max. load)

**Switch outputs:** 6, 100 mA at 12 V/24 V

**Alarm outputs:** 1, 100 mA at 12 V/24 V

**Signal inputs:** 6, for floating make or break contacts

**Telephone:** Analogue, CTR 21, line length 3 m

**KNX:** Screw terminals

**RS 232:** Cable length 3 m

**Device width:** 8 modules = approx. 144 mm

**Accessories:** Handset for TeleController MTN660790, Power supply REG, 24 V DC / 0.4 A MTN693003, Power supply REG, 24 V DC / 1.25 A MTN693004

**Contents:** PC software, connection cable RS 232.

**Handset for TeleController**

Version	Art. no.
anthracite	<b>MTN660790</b> <b>Discontinued</b>

Speech output of the various messages can be monitored and changed with the handset.  
**In KNX, to be completed with:** TeleController Plus REG-K MTN680790

## Getting to know U.motion

### U.motion, a networked system

U.motion is a web-server-based visualisation system for house and building automation networks that have been constructed with a KNX basis. The core of the system is a server that manages the various functions of the U.motion system and the KNX installation. The functions are visualised and controlled using different "client devices":

- U.motion Client Touch panels in different sizes
  - Smartphones and tablet PCs with the corresponding apps for U.motion
  - Standard computers (PC/Mac) with suitable browsers
- The devices can be connected to the server either through a local network or over the Internet.

U.motion links and manages the following functions:

- Controlling lighting, shading and temperature
- Energy management and load control
- Communication within the building (intercom and communication with the door station)
- Building monitoring with IP cameras
- Messages via e-mail, RSS feed, weather forecast, time synchronisation and remote control via Internet connection

The system can be expanded in many ways. From a small system with building control using smartphones and tablet PCs, through to a large system with multiple touch panels, video door stations and IP cameras, there are appropriate solutions for both residential and commercial buildings.

### Design options

There is a uniform standard user interface for U.motion devices and it comes in two different design variants. Functions can be grouped together in different ways:

- As rooms and floors
- As functions
- As scenes
- As favourites

All the display variants are available in the default setting. If necessary, you can arrange the different variants individually. The "Functions in the visualisation" section contains an overview of the most important visualisation functions.

If multiple users use the visualisation system, it can be configured individually for each of them. The rooms can be set up specifically for each user group.

End users also have the option of making individual design changes:

- Adjusting and deactivating time functions
- Changing set values for automatic functions
- Changing device values within scenes
- Individual settings via load control: changing the limits, disabling/enabling load shedding
- Positioning elements in the room visualisation
- Grouping together the most important functions as favourites

### Server and touch panel: a brief introduction

#### Server

Depending on the system requirements and size, there is a choice of different servers:



#### U.motion KNX Server

A DIN rail device that supports a small to medium-sized KNX installation



#### U.motion KNX Server Plus

A DIN rail device that supports the functions in a larger system, including door communication

### Touch panels with integrated server

Touch panels with the functions of a server. The benefit: all the functions are visualised and accessed directly



#### U.motion KNX Server Plus Touch 10

The touch panel has a screen diagonal of 10 inches



#### U.motion KNX Server Plus Touch 15

The touch panel has a screen diagonal of 15 inches

### Touch panels

Touch panels call up functions and can also access the server's configuration area. The U.motion Client Touch is available in different sizes:



#### U.motion Client Touch 7

The smallest touch panel with an Android system. You can call up functions from here and also use apps. U.motion Client Touch 7 can be installed either horizontally or vertically.



#### U.motion Client Touch 10

The touch panel has a screen diagonal of 10 inches



#### U.motion Client Touch 15

The touch panel has a screen diagonal of 15 inches

## System design

There are essentially three extensions for the U.motion visualisation system:

- Solution with **U.motion KNX Server Plus**
- Solution with **U.motion KNX Server**
- Solution with **U.motion KNX Server Plus, Touch**

U.motion is a web-server-based visualisation system for house and building automation networks that have been constructed with a KNX basis. The core of the system is a server that manages the various functions of the U.motion system and the KNX installation. The functions are visualised and controlled using different "client devices":

- U.motion Client Touch panels in different sizes
- Smartphones and tablet PCs with the corresponding apps for U.motion
- Standard computers (PC/Mac) with suitable browsers

The server is configured directly on its web interface in a browser. It can also be configured offline using the U.motion Builder, which is available free of charge.

The following sections describe the system limits and applications of each server, as well as an overview of the visualisation functions. The section on the U.motion door communication describes how the intercom is connected to door stations.

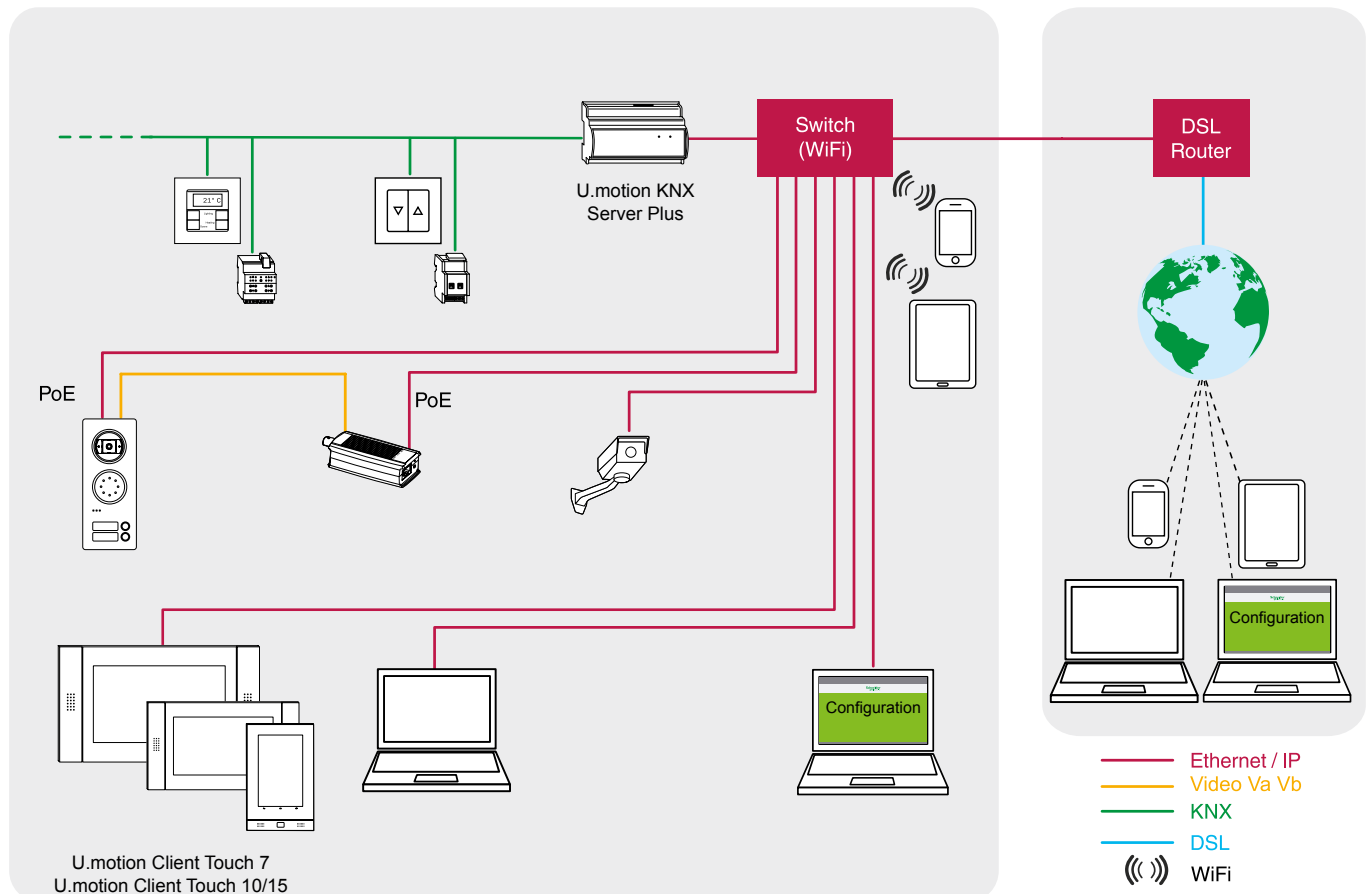
### Solution with U.motion KNX Server Plus

The following client devices can use the Server Plus as a master:

- U.motion Client Touch 7
- U.motion Client Touch 10
- U.motion Client Touch 15
- Smartphones
- Tablet PCs
- Devices with a suitable browser (PCs and Macs)

The following technologies are grouped together in the visualisation system:

- KNX building automation
- Monitoring with IP cameras
- Intercom between internal devices
- Door communication between internal devices and door stations
- Internet services, e.g. RSS news, weather forecast and system e-mails
- Family board for messages to the display devices



# U.motion

## Solution with U.motion KNX Server

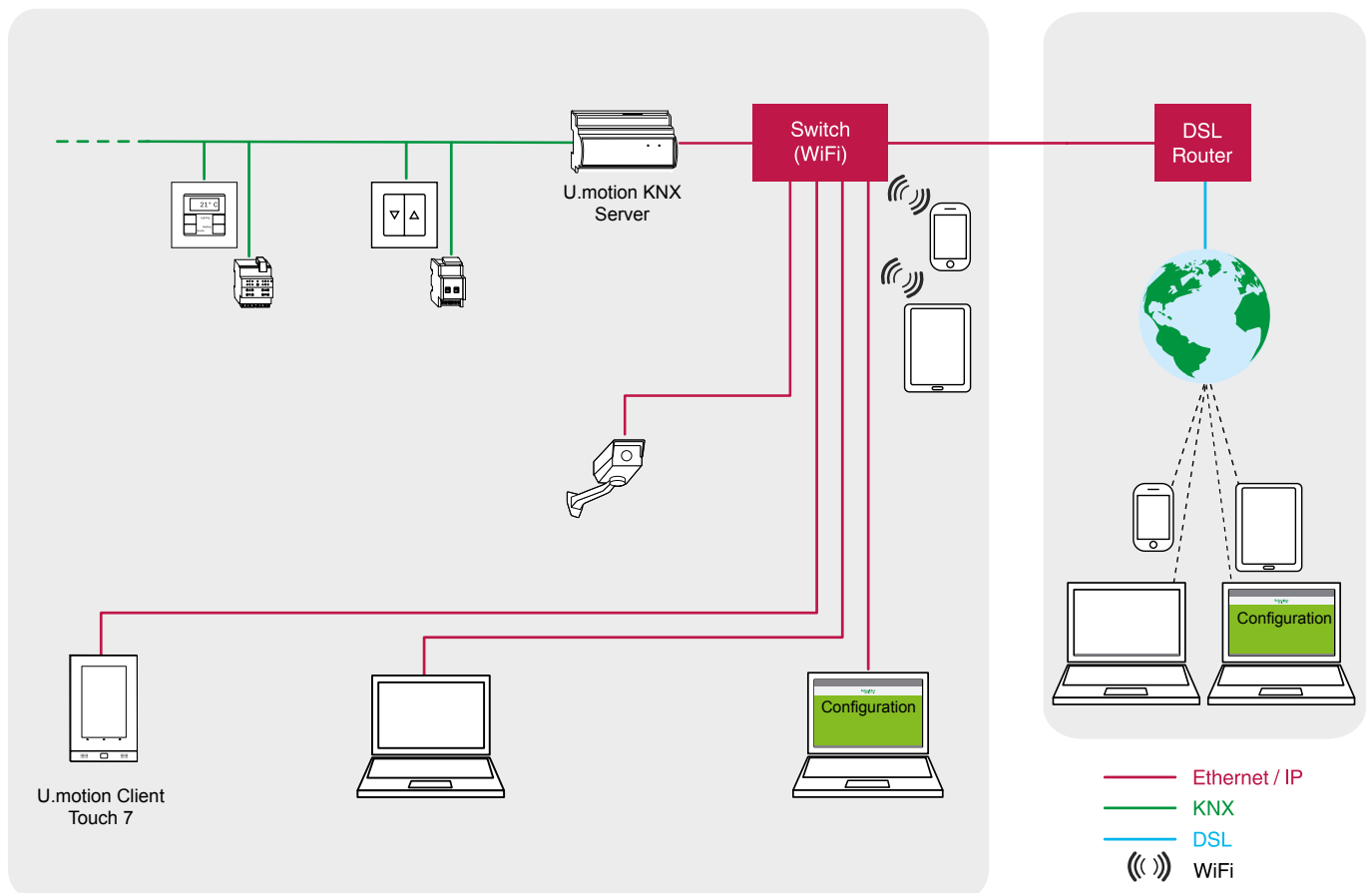
The following client devices can use the Server as a master:

- U.motion Client Touch 7
- Smartphones
- Tablet PCs
- PCs\* or Macs\*

The following technologies are grouped together in the visualisation system:

- KNX building automation
- Monitoring with IP cameras
- Internet services, e.g. RSS news, weather forecast and system e-mails
- Family board for messages to the display devices

\* two hour time limit after logging on for PCs and Macs



# U.motion

## Solution with U.motion KNX Server Plus, Touch

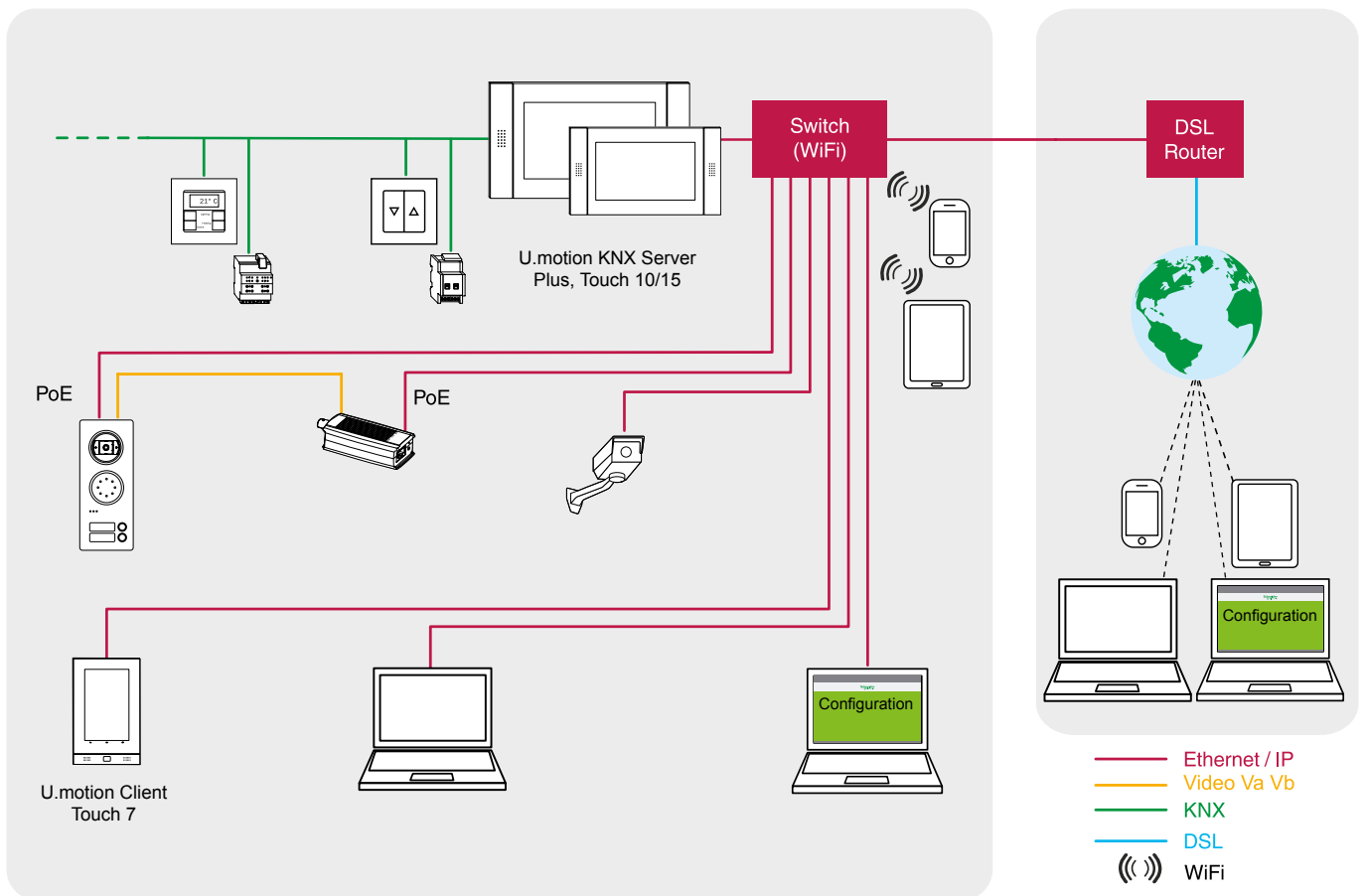
The following client devices can use the Server Plus as a master:

- U.motion Client Touch 7
- Smartphones
- Tablet PCs
- PCs\* and Macs\*

The following technologies are grouped together in the visualisation system:

- KNX building automation
- Monitoring with IP cameras
- Intercom between internal devices
- Door communication between internal devices and door stations
- Internet services, e.g. RSS news, weather forecast and system e-mails
- Family board for messages to the display devices

\* two hour time limit after logging on for PCs and Macs



## U.motion server



## U.motion KNX Server



Version	Art. no.
	<b>MTN6501-0001</b>

The U.motion KNX Server visualises, manages and controls KNX building functions across platforms e.g. building monitoring with IP cameras or visualising the energy efficiency. The KNX server is suitable for controlling buildings with up to 150 KNX group addresses. (e.g. single-family house, shop)

The server acts as a master and provides "client devices" with all the data and functions for visualisation. The client devices include:

- U.motion Client Touch 7
- Smartphones and tablet PCs with the U.motion Control app (Android and iOS)

It is possible to access the server either via the local network or through the Internet via remote access. Automatic size adjustment ensures that the image fits various mobile devices perfectly.

Configuration is carried out using U.motion Builder software and parameterisation either occurs directly on its web interface or offline in a different location.

For installation on DIN rails TH35 according to EN 60715.

**Functions:** Controllable elements: Display/compare lighting, heating/cooling, shading, temperature control and energy consumption values as well as switch loads on/off, weather stations, IP cameras

Advanced functions: Scenarios, complex objects for combining functions, logic functions, comparisons of values and conditions, virtual objects, integrators, time switch, notifications on the screen and via e-mail.

Visualisation: Different representations of the floor plans and controllable elements, personalisation of the navigation menu, creation of favourites.

**System properties:** KNX group addresses: 150

Scenes: 5

Logic units: 5

Conditions: 5

Areas/rooms: 10

Energy management: 1 energy meters, 4 loads

IP cameras: 2

Intercom function: No

**Nominal voltage:** DC 12 - 24 V

**Energy consumption:** 3 W (240 mA at 12 V)

**Connections and interfaces:**

1x LAN connection, Ethernet RJ45, 10/100 Mbit/s

**IP protection rating:** IP 20

**Device width:** 9 modules = approx. 162 mm

**To be completed with:** Power supply REG, 24 V DC / 0.4 A MTN693003

Power supply REG, 24 V DC / 1.25 A MTN693004

**Accessories:** U.motion Client Touch 7 MTN6260-0307

**Contents:** Plug-in screw terminals.

U.motion USB stick with additional software and documentation.





#### U.motion KNX Server Plus



Version	Art. no.
	<b>MTN6501-0002</b>

The U.motion KNX Server Plus visualises, manages and controls KNX building functions across platforms e.g. communication with door stations (IP-SIP), building monitoring with IP cameras or visualising the energy efficiency.

The KNX Server Plus is suitable for controlling larger residential buildings, office buildings, schools, etc. It supports communication with a door station and VoIP intercom.

The Server Plus acts as a master and provides "client devices" with all the data and functions for visualisation. The client devices include:

- U.motion Client Touch 7
- U.motion Client Touch 10/15
- Smartphones and tablet PCs with the U.motion Control app (Android and iOS) and U.motion Communication app (Android)
- Standard computers (PC/Mac) with suitable browsers

It is possible to access the server either via the local network or through the Internet via remote access. Automatic size adjustment ensures that the image fits various mobile devices perfectly.

Configuration is carried out using U.motion Builder software and parameterisation either occurs directly on its web interface or offline in a different location.

For installation on DIN rails TH35 according to EN 60715.

**Functions:** Controllable elements: Display/compare lighting, heating/cooling, shading, temperature control and energy consumption values as well as switch loads on/off, weather stations, IP cameras, door communication, VoIP intercom.

Advanced functions: Scenarios, complex objects for combining functions, logic functions, comparisons of values and conditions, virtual objects, integrators, time switch, notifications on the screen and via e-mail.

Visualisation: Different representations of the floor plans and controllable elements, personalisation of the navigation menu, creation of favourites.

**System properties:** KNX group addresses: 1000

Scenes: 50

Logic units: 100

Conditions: 100

Areas/rooms: unlimited number

Energy management: 10 energy meters, 30 loads

IP cameras: unlimited number

Intercom function: Yes

**Nominal voltage:** DC 12 - 24 V

**Energy consumption:** 3 W (240 mA at 12 V)

**Connections and interfaces:**

1x LAN connection, Ethernet RJ45, 10/100 Mbit/s

**IP protection rating:** IP 20

**Device width:** 9 modules = approx. 162 mm

**To be completed with:** Power supply REG, 24 V DC / 0.4 A MTN693003

Power supply REG, 24 V DC / 1.25 A MTN693004

**Accessories:** U.motion Client Touch 7 MTN6260-0307

U.motion Client Touch 10 MTN6260-0310

U.motion Client Touch 15 MTN6260-0315

U.motion Door station set, 1 unit MTN6910-0033

U.motion Door station set, 2 units MEG6910-0034

**Contents:** Plug-in screw terminals.

U.motion USB stick with additional software and documentation.



### U.motion KNX Server Plus, Touch 10



Version Art. no.

**MTN6260-0410**

The U.motion KNX Server Plus Touch visualises, manages and controls KNX building functions across platforms e.g. communication with door stations (IP-SIP), building monitoring with IP cameras or visualising the energy efficiency.

Both the visualisation and configuration can be called up using the touch-sensitive screen. The KNX Server Plus Touch is suitable for controlling larger residential buildings, office buildings, schools, etc. It supports communication with a door station and VoIP intercom.

The Server Plus Touch acts as a master and provides "client devices" with all the data and functions for visualisation. The client devices include:

- U.motion Client Touch 7
- Smartphones and tablet PCs with the U.motion Control app (Android and iOS) and U.motion Communication app (Android)

It is possible to access the server either via the local network or through the Internet via remote access. Automatic size adjustment ensures that the image fits various mobile devices perfectly.

Configuration is carried out using U.motion Builder software and parameterisation either occurs directly on its web interface or offline in a different location.

Suitable for flush-mounted installation, cavity wall installation and cavity wall installation in which the touch panel is flush-mounted with the wall.

For horizontal installation.

**Functions:** Controllable elements: Display/compare lighting, heating/cooling, shading, temperature control and energy consumption values as well as switch loads on/off, weather stations, IP cameras, door communication, VoIP intercom.

**Advanced functions:** Scenarios, complex objects for combining functions, logic functions, comparisons of values and conditions, virtual objects, integrators, time switch, notifications on the screen and via e-mail.

**Visualisation:** Different representations of the floor plans and controllable elements, personalisation of the navigation menu, creation of favourites.

**System properties:** KNX group addresses: 1000

Scenes: 50

Logic units: 100

Conditions: 100

Areas/rooms: unlimited number

Energy management: 10 energy meters, 30 loads

IP cameras: unlimited number

Intercom function: Yes

**Nominal voltage:** AC 100 - 240 V

**Energy consumption:** max. 20 W

**Connections and interfaces:**

1 x LAN connection, Ethernet RJ45, 10/100/1000 Mbit/s

4x USB (1x front, 3x back), KNX interface

**Display size:** 25.6 cm (10.1")

**Display type:** TFT, capacitive touchscreen

**Resolution:** WSVGA 1024x600

**Light intensity:** 200 cd/m<sup>2</sup>

**Contrast ratio:** 400:1

**Features:** Loudspeaker, microphone

**IP protection rating:** IP 20

**Dimensions:** 343x201x81 mm (LxHxW)

**To be completed with:** U.motion Touch 10 Flush mounting box MTN6270-5004

U.motion Touch 10 Cavity wall set MTN6270-5005

U.motion Touch 10 Cavity wall set, flush mounting MTN6270-5006

**Accessories:** U.motion Client Touch 7 MTN6260-0307

U.motion Door station set, 1 unit MTN6910-0033

U.motion Door station set, 2 units MEG6910-0034

**Contents:** U.motion Touch 10 design elements.

RJ45 connection adapter and Cat 6 patch cable 35 cm.

U.motion USB stick with additional software and documentation.



### U.motion KNX Server Plus, Touch 15



Version Art. no.

**MTN6260-0415**

The U.motion KNX Server Plus Touch visualises, manages and controls KNX building functions across platforms e.g. communication with door stations (IP-SIP), building monitoring with IP cameras or visualising the energy efficiency.

Both the visualisation and configuration can be called up using the touch-sensitive screen. The KNX Server Plus Touch is suitable for controlling larger residential buildings, office buildings, schools, etc. It supports communication with a door station and VoIP intercom.

The Server Plus Touch acts as a master and provides "client devices" with all the data and functions for visualisation. The client devices include:

- U.motion Client Touch 7
- Smartphones and tablet PCs with the U.motion Control app (Android and iOS) and U.motion Communication app (Android)

It is possible to access the server either via the local network or through the Internet via remote access. Automatic size adjustment ensures that the image fits various mobile devices perfectly.

Configuration is carried out using U.motion Builder software and parameterisation either occurs directly on its web interface or offline in a different location.

Suitable for flush-mounted installation, cavity wall installation and cavity wall installation in which the touch panel is flush-mounted with the wall.

For horizontal installation.

**Functions:** Controllable elements: Display/compare lighting, heating/cooling, shading, temperature control and energy consumption values as well as switch loads on/off, weather stations, IP cameras, door communication, VoIP intercom.

**Advanced functions:** Scenarios, complex objects for combining functions, logic functions, comparisons of values and conditions, virtual objects, integrators, time switch, notifications on the screen and via e-mail.

**Visualisation:** Different representations of the floor plans and controllable elements, personalisation of the navigation menu, creation of favourites.

**System properties:** KNX group addresses: 1000

Scenes: 50

Logic units: 100

Conditions: 100

Areas/rooms: unlimited number

Energy management: 10 energy meters, 30 loads

IP cameras: unlimited number

Intercom function: Yes

**Nominal voltage:** AC 100 - 240 V

**Energy consumption:** max. 25 W

**Connections and interfaces:**

1 x LAN connection, Ethernet RJ45, 10/100/1000 Mbit/s

4x USB (2x front, 2x back), KNX interface

**Display size:** 39.6 cm (15.6")

**Display type:** TFT, capacitive touchscreen

**Resolution:** WXGA 1366x786

**Light intensity:** 300 cd/m<sup>2</sup>

**Contrast ratio:** 500:1

**Features:** Loudspeaker, microphone

**IP protection rating:** IP 20

**Dimensions:** 525x306x92 mm (LxHxW)

**To be completed with:** U.motion Touch 15 Flush mounting box MTN6270-5007

U.motion Touch 15 Cavity wall set MTN6270-5008

U.motion Touch 15 Cavity wall set, flush mounting MTN6270-5009

**Accessories:** U.motion Client Touch 7 MTN6260-0307

U.motion Door station set, 1 unit MTN6910-0033

U.motion Door station set, 2 units MEG6910-0034

**Contents:** U.motion Touch 15 design elements

RJ45 connection adapter and Cat 6 patch cable 35 cm.

U.motion USB stick with additional software and documentation.

## U.motion client



### U.motion Client Touch 7



Version

Art. no.

**MTN6260-0307**

Using the U.motion Client Touch, it is possible to visualise and control the functions transferred from a U.motion KNX server.

These functions include:

- Control of the lighting, blinds and room temperature control, scenarios
- Visualisation of the energy efficiency
- In conjunction with a KNX Server Plus, communication within a building is possible (intercom, communication with the door station)
- Building monitoring using IP cameras

Operation is interactive on the touch-sensitive TFT display.

The touch panel uses the Android operating system, which means the image is displayed on the device by an Android app. You can use the pre-installed U.motion Access app to configure the most frequently used apps on the front panel, e.g. the U.motion Control app (to control the KNX installation) and the U.motion Communication app (for the intercom system).

Can be flush-mounted and installed in cavity walls.

For horizontal and vertical installation.

**Nominal voltage:** DC 9 - 36 V or alternatively via PoE (compatible with Cat5e/Cat6 UTP cable, maximum length 100 m, IEEE standard 802.3af)

**Energy consumption:** max. 7 W

**Connections and interfaces:**

1x LAN connection, Ethernet RJ45, 10/100 Mbit/s

2x USB 2.0

**Display size:** 17.78 cm (7")

**Display type:** TFT, capacitive touchscreen

**Resolution:** WSVGA 800x480

**Light intensity:** 500 cd/m<sup>2</sup>

**Contrast ratio:** 400:1

**Features:** Loudspeaker, microphone

**IP protection rating:** IP 20

**Dimensions:** 136x215x31 mm (LxHxW)

**To be completed with:** U.motion Touch 7 Mounting Set MTN6270-5001

U.motion KNX Server MTN6501-0001

U.motion KNX Server Plus MTN6501-0002

U.motion KNX Server Plus, Touch 10 MTN6260-0410

U.motion KNX Server Plus, Touch 15 MTN6260-0415

**Contents:** U.motion Touch 7 design elements.

RJ45 connection adapter and Cat 6 patch cable 35 cm.

U.motion USB stick with additional software and documentation.



#### U.motion Client Touch 10



Version

Art. no.

**MTN6260-0310**

Using the U.motion Client Touch, it is possible to visualise and control the functions transferred from a U.motion KNX server.

These functions include:

- Control of the lighting, blinds and room temperature control, scenarios
- Visualisation of the energy efficiency
- In conjunction with a KNX Server Plus, communication within a building is possible (inter-com, communication with the door station)
- Building monitoring using IP cameras

Operation is interactive on the touch-sensitive TFT display.

The touch panel has its own administration system where functions, such as language, network parameters, date, screensaver, energy saving mode, etc., can be configured. You can either gain access to the administration system locally on the device or via its web interface, which can be called up on a browser.

After configuration the image is displayed directly on the touch panel.

Suitable for flush-mounted installation, cavity wall installation and cavity wall installation in which the touch panel is flush-mounted with the wall.

For horizontal installation.

**Nominal voltage:** AC 100 - 240 V

**Energy consumption:** max. 20 W

**Connections and interfaces:**

1 x LAN connection, Ethernet RJ45, 10/100/1000 Mbit/s

4x USB (1x front, 3x back)

**Display size:** 25.6 cm (10.1")

**Display type:** TFT, capacitive touchscreen

**Resolution:** WSVGA 1024x600

**Light intensity:** 200 cd/m<sup>2</sup>

**Contrast ratio:** 400:1

**Features:** Loudspeaker, microphone

**IP protection rating:** IP 20

**Dimensions:** 343x201x81 mm (LxHxW)

**To be completed with:** U.motion Touch 10 Flush mounting box MTN6270-5004

U.motion Touch 10 Cavity wall set MTN6270-5005

U.motion Touch 10 Cavity wall set, flush mounting MTN6270-5006

U.motion KNX Server Plus MTN6501-0002

**Contents:** U.motion Touch 10 design elements.

RJ45 connection adapter and Cat 6 patch cable 35 cm.

U.motion USB stick with additional software and documentation.



#### U.motion Client Touch 15



Version

Art. no.

**MTN6260-0315**

Using the U.motion Client Touch, it is possible to visualise and control the functions transferred from a U.motion KNX server.

These functions include:

- Control of the lighting, blinds and room temperature control, scenarios
- Visualisation of the energy efficiency
- In conjunction with a KNX Server Plus, communication within a building is possible (intercom, communication with the door station)
- Building monitoring using IP cameras

Operation is interactive on the touch-sensitive TFT display.

The touch panel has its own administration system where functions, such as language, network parameters, date, screensaver, energy saving mode, etc., can be configured. You can either gain access to the administration system locally on the device or via its web interface, which can be called up on a browser.

After configuration the image is displayed directly on the touch panel.

Suitable for flush-mounted installation, cavity wall installation and cavity wall installation in which the touch panel is flush-mounted with the wall.

For horizontal installation.

**Nominal voltage:** AC 100 - 240 V

**Energy consumption:** max. 25 W

**Connections and interfaces:**

1 x LAN connection, Ethernet RJ45, 10/100/1000 Mbit/s

4x USB (2x front, 2x back)

**Display size:** 39.6 cm (15.6")

**Display type:** TFT, capacitive touchscreen

**Resolution:** WXGA 1366x786

**Light intensity:** 300 cd/m<sup>2</sup>

**Contrast ratio:** 500:1

**Features:** Loudspeaker, microphone

**IP protection rating:** IP 20

**Dimensions:** 525x306x92 mm (LxHxW)

**To be completed with:** U.motion Touch 15 Flush mounting box MTN6270-5007

U.motion Touch 15 Cavity wall set MTN6270-5008

U.motion Touch 15 Cavity wall set, flush mounting MTN6270-5009

U.motion KNX Server Plus MTN6501-0002

**Contents:** U.motion Touch 15 design elements

RJ45 connection adapter and Cat 6 patch cable 35 cm.

U.motion USB stick with additional software and documentation.

## U.motion building communications



## U.motion Door station set, 1 unit



Version

Art. no.

**MTN6910-0033**

Door station in Acero design.

The set enables an intercom connection (audio/video) from the door station to an intercom-compatible U.motion device, such as U.motion touch panels, PCs or to the U.motion Communication app.

The set consists of the following components:

- Stainless steel door station with 1 bell push-button, pre-installed colour video camera, IP video built-in loudspeaker and flush-mounted box

- IP switching device
- Video encoder with BNC adapter

**IP video door station:**

- Vandal-proof door station
- 2.5 mm brushed stainless steel front plate
- Video retrofit loudspeaker for digitising the video, audio and switching information
- Mechanically adjustable colour camera
- Total surveillance range 150° horizontal / 90° vertical
- Flush mounted buttons and nameplates
- Illuminated nameplates + bell push-buttons including white LEDs
- Large 16 x 64 mm nameplates - can be changed from the front with no additional tools
- Easy installation: faceplate with arrester cable, flush-mounted box with wall anchors, flexible cable inlet
- Flush-mounted box, only 52 mm deep - the existing thermal insulation remains intact
- POE power supply (Power over Ethernet)

**IP switching device:**

For door opener control and to control switching functions via IP.

- Power supply 230 V
- With 2 switching contacts AC230 V 50 Hz  
Switching current: 10 A ohmic load and 6 A for inductive/capacitive load
- 1 input for potential-free contacts for controlling the IP switching device
- Safe switching of the door opener thanks to authentication procedure
- Door opener release only by system devices or potential-free input
- Airlock function, light switch with/without disconnection warning, surge relay, time relay with adjustable time, ON delay
- 9 V AC output to supply one door opener
- Logs: DHCP, AutoIP, TCP/IP, UDP

**Video encoder:**

The video encoder converts analogue video signals from the door station into network-compatible signals for U.motion KNX Server Plus devices.

**IP stainless steel video door station** Faceplate dimensions: 154×355×2.5 mm (W×H×D)

Flush-mounted box dimensions: 130×331×52 mm (W×H×D)

**IP switching device** Dimensions: 90×90×60 mm (W×H×D)

**Video encoder** Dimensions: 101×30×37 mm (W×H×D)

**To be completed with:** U.motion KNX Server Plus MTN6501-0002

U.motion KNX Server Plus, Touch 10 MTN6260-0410

U.motion KNX Server Plus, Touch 15 MTN6260-0415

**Accessories:** U.motion Client Touch 7 MTN6260-0307

U.motion Client Touch 10 MTN6260-0310

U.motion Client Touch 15 MTN6260-0315



#### U.motion Door station set, 2 units



Version

Art. no.

**MTN6910-0034**

Door station in Acero design.

The set enables an intercom connection (audio/video) from the door station to an intercom-compatible U.motion device, such as U.motion touch panels, PCs or to the U.motion Communication app.

The set consists of the following components:

- Stainless steel door station with 2 bell push-buttons, pre-installed colour video camera, IP video built-in loudspeaker and flush-mounted box
- IP switching device
- Video encoder with BNC adapter

#### IP video door station:

- Vandal-proof door station
- 2.5 mm brushed stainless steel front plate
- Video retrofit loudspeaker for digitising the video, audio and switching information
- Mechanically adjustable colour camera
- Total surveillance range 150° horizontal / 90° vertical
- Flush mounted buttons and nameplates
- Illuminated nameplates + bell push-buttons including white LEDs
- Large 16 x 64 mm nameplates - can be changed from the front with no additional tools
- Easy installation: faceplate with arrester cable, flush-mounted box with wall anchors, flexible cable inlet
- Flush-mounted box, only 52 mm deep - the existing thermal insulation remains intact
- POE power supply (Power over Ethernet)

#### IP switching device:

For door opener control and to control switching functions via IP.

- Power supply 230 V
- With 2 switching contacts AC230 V 50 Hz  
Switching current: 10 A ohmic load and 6 A for inductive/capacitive load
- 1 input for potential-free contacts for controlling the IP switching device
- Safe switching of the door opener thanks to authentication procedure
- Door opener release only by system devices or potential-free input
- Airlock function, light switch with/without disconnection warning, surge relay, time relay with adjustable time, ON delay
- 9 V AC output to supply one door opener
- Logs: DHCP, AutoIP, TCP/IP, UDP

#### Video encoder:

The video encoder converts analogue video signals from the door station into network-compatible signals for U.motion KNX Server Plus devices.

**IP stainless steel video door station** Faceplate dimensions: 154×385×2.5 mm (W×H×D)

Flush-mounted box dimensions: 130×361×52 mm (W×H×D) **IP switching device**

Dimensions: 90×90×60 mm (W×H×D) **Video encoder**

Dimensions: 101×30×37 mm (W×H×D)

**To be completed with:** U.motion KNX Server Plus MTN6501-0002

U.motion KNX Server Plus, Touch 10 MTN6260-0410

U.motion KNX Server Plus, Touch 15 MTN6260-0415

**Accessories:** U.motion Client Touch 7 MTN6260-0307

U.motion Client Touch 10 MTN6260-0310

U.motion Client Touch 15 MTN6260-0315



## U.motion accessories



### U.motion Touch 7 Mounting Set



Version	Art. no.
	<b>MTN6270-5001</b>

For flush-mounted installation and cavity wall installation of the U.motion Client Touch 7.  
**Dimensions:** 211x130x80 mm (LxHxD)  
**To be completed with:** U.motion Client Touch 7 MTN6260-0307  
**Contents:** Installation box and wood elements for attachment in cavity walls.



### U.motion Touch 10 Flush mounting box



Version	Art. no.
	<b>MTN6270-5004</b>

For flush-mounted installation of U.motion Touch 10 devices.  
**Dimensions:** 325x202x80 mm (LxHxD)  
**To be completed with:** U.motion KNX Server Plus, Touch 10 MTN6260-0410  
 U.motion Client Touch 10 MTN6260-0310



### U.motion Touch 15 Flush mounting box



Version	Art. no.
	<b>MTN6270-5007</b>

For flush-mounted installation of U.motion Touch 15 devices.  
**Dimensions:** 508x308x80 mm (LxHxD)  
**To be completed with:** U.motion KNX Server Plus, Touch 15 MTN6260-0415  
 U.motion Client Touch 15 MTN6260-0315



### U.motion Touch 10 Cavity wall set



Version	Art. no.
	<b>MTN6270-5005</b>

For cavity wall installation of U.motion Touch 10 devices.  
**Dimensions:** 354x211x47 mm (LxHxD)  
**To be completed with:** U.motion KNX Server Plus, Touch 10 MTN6260-0410  
 U.motion Client Touch 10 MTN6260-0310

# U.motion



### U.motion Touch 15 Cavity wall set



Version	Art. no.
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**MTN6270-5008**

For cavity wall installation of U.motion Touch 15 devices.  
**Dimensions:** 537x318x59 mm (LxHxD)  
**To be completed with:** U.motion KNX Server Plus, Touch 15 MTN6260-0415  
 U.motion Client Touch 15 MTN6260-0315



### U.motion Touch 10 Cavity wall set, flush mounting



Version	Art. no.
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**MTN6270-5006**

For cavity wall installation of U.motion Touch 10 devices. The touch panel is flush-mounted with the wall using this set.  
**Dimensions:** 341x196x88 mm (LxHxD)  
**To be completed with:** U.motion KNX Server Plus, Touch 10 MTN6260-0410  
 U.motion Client Touch 10 MTN6260-0310



### U.motion Touch 15 Cavity wall set, flush mounting



Version	Art. no.
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**MTN6270-5009**

For cavity wall installation of U.motion Touch 15 devices. The touch panel is flush-mounted with the wall using this set.  
**Dimensions:** 522x302x90 mm (LxHxD)  
**To be completed with:** U.motion KNX Server Plus, Touch 15 MTN6260-0415  
 U.motion Client Touch 15 MTN6260-0315



### U.motion Touch 7 Design element



Version	Art. no.
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**MTN6270-4060**

Aluminium cover for the U.motion Client Touch 7.  
 The cover is pushed on.  
**Spare part of:** U.motion Client Touch 7 MTN6260-0307  
**Contents:** 1 design element made of aluminium.



### U.motion Touch 10 Design element



Version	Art. no.
	<b>MTN6270-4160</b>

Two aluminium covers for U.motion Touch 10 devices.  
 The covers are pushed on from the side.  
**Spare part of:** U.motion KNX Server Plus, Touch 10 MTN6260-0410  
 U.motion Client Touch 10 MTN6260-0310  
**Contents:** 2 design elements made of aluminium.



### U.motion Touch 15 Design element



Version	Art. no.
	<b>MTN6270-4260</b>

Two aluminium covers for U.motion Touch 15 devices.  
 The covers are pushed on from the side.  
**Spare part of:** U.motion KNX Server Plus, Touch 15 MTN6260-0415  
 U.motion Client Touch 15 MTN6260-0315  
**Contents:** 2 design elements made of aluminium.



### U.motion Video Encoder set



Version	Art. no.
	<b>MTN6910-0035</b>

The Video encoder set converts analogue video signals from the IP door station into network-compatible signals for U.motion KNX Server Plus devices.  
 The video encoder can be mounted on the wall or ceiling of the room using the supplied mounting bracket, screws and plugs.  
 With the enclosed software application, the Video Encoder is automatically detected on the network and then configured.  
**Power supply:** PoE class 2  
**Protocol:** MJPEG  
**Operating elements:** Control button  
**Indicators:** 3 LEDs for power, status and network  
**Connections:** BNC, RJ45, RS422, RS485, 2,5 mm tele plug connector  
**Dimensions:** 101×30×37 mm (W×H×D)  
**Contents:** Video Encoder and software application, Passive Video Transceiver, Mounting kit.

## Visualization



### KNX InSideControl IP-Gateway



Version	Art. no.
light grey	<b>MTN6500-0113</b>

The KNX InSideControl IP-Gateway connects the KNX installation with the IP network (LAN). In combination with the applications "InSideControl App/HD App", the KNX installation can be controlled with up to 5 smartphones or tablets.

The gateway supports the internet protocol DHCP simultaneously. The IP address can be assigned dynamically via a DHCP server or manually via ETS settings. When accessing over KNXnet/IP tunnelling, a maximum of 5 simultaneous connections is possible.

The gateway can additionally serve as a programming interface in order to connect a PC with the KNX bus (e.g. for ETS programming with suitable ETS).

With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715.

The bus is connected using a bus connecting terminal.

**KNX software functions:** Device name, IP address assignment (DHCP / Manual)

**InSideControl App/HD App for smartphones and tablets:**

The application is available for the operating systems Apple and Android. It operates only with the KNX InSideControl IP-Gateway. The features of the application are being configured with the additional software InSideControl Builder. The application, as well as the configuration software, are available for free at [www.schneider-electric.com](http://www.schneider-electric.com).

**Functions:** The app can be used, for example, to individually control the lighting, blinds or heating or to call up scenes for simultaneously controlling several devices. In addition, messages can be received from the KNX installation, such as a wind message or the indication of the energy consumption.

**External power supply:** 12-24 V AC or 12-30 V DC (SELV) or Power over Ethernet

**Power consumption:** max. 800 mW

**Operating elements:** Programming button

**Display elements:** 1 LED each for programming, KNX and Ethernet

**Connection cross section:** Supply: 2x1,5 mm<sup>2</sup>

**Device width:** 2 modules = approx. 36 mm

**In KNX, to be completed with:** Power supply REG, 24 V DC / 0.4 A MTN693003, Power supply REG, 24 V DC / 1.25 A MTN693004, Power supply REG, AC 24 V/1 A MTN663529, Also alternatively Power over Ethernet (PoE).

**Accessories:** InSideControl App, InSideControl HD App, InSideControl Builder.  
<http://www2.schneider-electric.com/sites/corporate/en/products-services/product-launch/KNX-inside-control.page>

**Note:** Apple and Android are registered trademarks and property of the respective owners.

**Contents:** With bus connecting terminal.

## Control and display devices



### Touch Panel 7"



Version	Art. no.
	<b>MTN6260-1007</b>

The Touch Panel 7" is used for the visualisation and control of current building states and functions. The integrated visualisation software with the self-explanatory user interface offers a high level of operating convenience when operating the touch-sensitive TFT display with LED background lighting. Windows CE.NET is installed as the operating system.

Further functions:

- Real-time week time switch with internet time synchronisation
- Presence simulation (recording and play-back of switching habits)
- Alarm management
- Internet access
- Load a slide show
- Automatic standby switching
- Password protection
- Adjustable user interface
- Integrated room temperature controller (measurement and control)
- Night reduction of display brightness for improved energy efficiency
- LAN programming directly from the ETS Plugin

The Touch Panel 7" has a LAN (10/100 Mbit/s), KNX and USB interface.. With integrated loudspeaker.

Due to its flat design in a flush-mounted housing, its uses range from residential to commercial applications. It can be installed horizontally or vertically.

**KNX software functions:** Switching, dimming, operation of sunshade systems such as roller shutters, awnings and blinds. Save and retrieve scenes Transmit values. Telegram status display. Temperature display. Logic functions. Disable module. Dynamic language selection via KNX object.

**Nominal voltage:** AC 230 V, 50 Hz

**Power consumption:** 4.3 W in energy-saving mode, 8 W when in operation

**Ambient operating temperature:** -5°C to 45 °C

**Display size:** 17.8 cm (7")

**Resolution:** 800 x 480 pixels

**Display type:** TFT

**Colours shown:** 65.000

**Hardware:** 312 MHz Intel XScale PXA270

**RAM:** 64 MB

**Flash memory:** 64 MB

**Type of protection:** IP 20

**Dimensions:** 196x137x52 mm (HxWxD)

**In KNX, to be completed with:** Inner frame set for Touch Panel 7" MTN6270-11..., Glass frame for Touch Panel 7" MTN6270-3619, Metal frame for Touch Panel 7" MTN6270-3714/-3721, Aluminium frame for Touch Panel 7" MTN6270-37..., Frame for Touch Panel 7" MTN6270-00..., Flush-mounted mounting box for Touch Panel 7" MEG6270-0003



### Inner frame set for Touch Panel 7"



Version	Art. no.
<input type="checkbox"/> polar white	<b>MTN6270-1119</b>
<input checked="" type="checkbox"/> black	<b>MTN6270-1122</b>

The set consists of the inner frame and the USB cover. The design frames, which are available in various types of material, are attached to the Touch Panel using the inner frame.

**In KNX, to be completed with:** Touch Panel 7" MTN6260-1007, Glass frame for Touch Panel 7" MTN6270-3619, Metal frame for Touch Panel 7" MTN6270-3714/-3721, Aluminium frame for Touch Panel 7" MTN6270-37..., Frame for Touch Panel 7" MTN6270-00..

**Replacement part:** USB cover for Touch Panel 7" MTN6270-02..

# Control and display devices



### Flush-mounted mounting box for Touch Panel 7"



Version	Art. no.
grey	<b>MTN6270-0003</b>

For flush-mounted installation of the Touch Panel 7" and for installing into a cavity wall.  
**Dimensions**Outer dimensions: 195x140x55 mm (HxWxD)  
**In KNX, to be completed with:** Touch Panel 7" MTN6260-1007



### Glass frame for Touch Panel 7"



Version	Art. no.
<input type="checkbox"/> Brilliant white	<b>MTN6270-3619</b>

Decorative glass frame for Touch Panel 7".  
**In KNX, to be completed with:** Touch Panel 7" MTN6260-1007, Inner frame set for Touch Panel 7" MTN6270-11..



### Metal frame for Touch Panel 7"



Version	Art. no.
polished brass	<b>MTN6270-3721</b>
Steel	<b>MTN6270-3714</b>

Decorative solid metal frame for Touch Panel 7".  
**In KNX, to be completed with:** Touch Panel 7" MTN6260-1007, Inner frame set for Touch Panel 7" MTN6270-11..



### Aluminium frame for Touch Panel 7"



Version	Art. no.
aluminium	<b>MTN6270-3760</b>
Polar white	<b>MTN6270-3719</b>
Black	<b>MTN6270-3722</b>

Decorative aluminium frame for Touch Panel 7".  
**In KNX, to be completed with:** Touch Panel 7" MTN6260-1007, Inner frame set for Touch Panel 7" MTN6270-11..



### Frame for Touch Panel 7"



Version	Art. no.
<input type="checkbox"/> polar white	<b>MTN6270-0019</b>
<input checked="" type="checkbox"/> black	<b>MTN6270-0022</b>

Decorative frame for Touch Panel 7".  
**In KNX, to be completed with:** Touch Panel 7" MTN6260-1007, Inner frame set for Touch Panel 7" MTN6270-11..



#### USB cover for Touch Panel 7"



Version	Art. no.
<input type="checkbox"/> polar white	<b>MTN6270-0219</b>
<input checked="" type="checkbox"/> black	<b>MTN6270-0222</b>

For inserting into the intermediate frame. The USB cover is required as a spare part when damaged or lost.



#### IP Touch Panel 10"



Version	Art. no.
	<b>MTN6269-0010</b>

The IP Touch Panel 10" is used for the visualisation and control of current building statuses and functions. Operation is interactive on the touch-sensitive TFT display. Windows CE is installed as the operating system. With this standard, solutions such as data management, web functions and client/server and network functions can be configured quickly and easily.

Using the optional visualisation software, the IP Touch Panel 10" can be programmed for visualised, interactive control of building functions.

The IP Touch Panel 10" has LAN (10/100 Mbit/s), and an RS 232 and a USB connection. The USB connection is in the front behind the frame.

Due to its flat design in a flush-mounted housing, its uses range from residential to commercial applications.

The supplied KNX/IP router REG-K is connected to the KNX bus. The touch panel is connected to the KNX/IP router by means of the crossover cable (3m) (also supplied). Both devices require a DC 24 V power supply. The router does not fit together with the touch panel in the mounting boxes. They need a separate installation site. The touch panel communicates with the router (installed in the premises distribution system, for example) within a standard network installation.

**KNX software functions:** Configuration using the "TP VISU configuration tool".

**Display size:** 10.4" (24.4 cm)

**Resolution:** 800 x 600 pixels, SVGA

**Display type:** TFT, resistive touch

**Colours shown:** > 65000

**Supply voltage:** DC 24 V

**Power consumption:** < 20 W

**RAM:** 128 MB

**Flash memory:** 64 MB

**Data buffering:** via battery

**Ambient operating temperature:** 5 °C to 40 °C

**Type of protection:** IP 20

**Frame dimensions:** 224.7x277.5x12 mm (HxWxD)

**To be completed with:** Power supply REG, 24 V DC / 1.25 A MTN693004

**Accessories:** Real glass frame for IP Touch Panel 10" M-Plan MTN489960, Flush-mounted mounting box for IP Touch Panel 10" MTN683091, Cavity wall mounting box for IP Touch Panel 10" MTN683092

**Note:** The KNX/IP router does not fit together with the Touch Panel in the mounting box.

The configuration software is available on the Internet.

**Contents:** With KNX/IP router REG-K and crossover network cable (3m).

With Design M-Plan frames, aluminium.

# Control and display devices



### Real glass frame for IP Touch Panel 10"



Version	Art. no.
■ Diamond silver	<b>MTN489960</b>

For M-Plan.  
 Decorative frame for the IP Touch Panel 10".  
**Dimensions:** 228.6x281.4x13.5 mm (HxWxD)  
**To be completed with:** IP Touch Panel 10" MTN6269-0010



### Flush-mounted mounting box for IP Touch Panel 10"



Version	Art. no.
	<b>MTN683091</b>

For flush-mounted installation of the IP Touch Panel 10".  
**Dimensions:** 208x238x68 mm (HxWxD)  
**To be completed with:** IP Touch Panel 10" MTN6269-0010

### Cavity wall mounting box for IP Touch Panel 10"



Version	Art. no.
	<b>MTN683092</b>

For installing the IP Touch Panel 10" into a cavity wall.  
**Dimensions:** 205x235x72 mm (HxWxD)  
**To be completed with:** IP Touch Panel 10" MTN6269-0010



## Access control



### KNX Access Control eSuite+PC



Version	Art. no.
	<b>MTN6903-6300</b>

With this server it is possible to connect up to 3 external clients with 3 KNX Access Control USB card programmers real time. The connection is done through Ethernet interface. USB dongle license is included for unlimited rooms.

Integration with third party ERP Fidelio, Leonardo, Gialb systems is possible.

**Accessories:** KNX Access Control RFID Card reader glass MTN6903-60..., KNX Access Control RFID Card holder glass MTN6903-61..., KNX Access Control RTC glass MTN6903-62..., KNX Access Control USB card prog. MTN6903-6301



### KNX Access Control USB card prog.



Version	Art. no.
	<b>MTN6903-6301</b>

The device is fitted in a table container with 3 modules, and is equipped with a USB for the connection to a PC.

It is back lighted for signalling transponder reading or writing. The reader / writer is powered up through the USB port of the PC, which must be provided with the appropriate software to allow the following read/write data: system code, password and date.

**In KNX, to be completed with:** KNX Access Control eSuite+PC MTN6903-6300

**Accessories:** KNX Access Control RFID Card reader glass MTN6903-60..., KNX Access Control RFID Card holder glass MTN6903-61..



### KNX Access Control RFID Card reader glass



Version	Art. no.
white	<b>MTN6903-6019</b>
black	<b>MTN6903-6014</b>
aluminium	<b>MTN6903-6060</b>

The device has two free potential binary inputs for door contact, window contacts, bathroom alarm or other needed inputs. On the device there are two low voltage relays for any other freely configurable use.

The front of the transponder is illuminated if no light is available (for dark locations), goes out if the card is invalid, and flashes for 3 seconds if access is not allowed. It is possible to open the door, execute some lighting scene and any other function through KNX bus.

Configuration is done with ETS.

**Nominal voltage:** 12/24 VAC/DC and KNX bus connection

**Maximum current:** 150 mA

**Contact voltage:** 24 Vdc

**Contact current:** 1mA

**In KNX, to be completed with:** Power supply REG, 24 V DC / 0.4 A MTN693003, Power supply REG, 24 V DC / 1.25 A MTN693004, Power supply REG, AC 24 V/1 A MTN663529

**Accessories:** KNX Access Control RFID Card holder glass MTN6903-61..., KNX Access Control RTC glass MTN6903-62..., KNX Access Control USB card prog. MTN6903-6301, KNX Access Control eSuite+PC MTN6903-6300

# Access Control



### KNX Access Control RFID Card holder glass



Version	Art. no.
white	<b>MTN6903-6119</b>
black	<b>MTN6903-6114</b>
aluminium	<b>MTN6903-6160</b>

The device has two free potential binary inputs for door contact, window contacts, bathroom alarm or other needed inputs. On the device there are two low voltage relays for any other freely configurable use as locker open signal.

The front of the transponder is illuminated if no light is available (for dark locations), goes out if the card is invalid, and flashes for 3 seconds if access is not allowed. It is possible to execute some lighting scene, switch off HVAC system when card is removed and any other function through KNX bus.

Configuration is done with ETS. With integrated bus coupler. The bus is connected using a bus connecting terminal.

**Nominal voltage:** 12/24 VAC/DC and KNX bus connection  
**Maximum current:** 150 mA  
**Contact voltage:** 24 Vdc  
**Contact current:** 1mA

**In KNX, to be completed with:** Power supply REG, 24 V DC / 0.4 A MTN693003, Power supply REG, 24 V DC / 1.25 A MTN693004, Power supply REG, AC 24 V/1 A MTN663529

**Accessories:** KNX Access Control RFID Card reader glass MTN6903-60..., KNX Access Control RTC glass MTN6903-62..., KNX Access Control USB card prog. MTN6903-6301, KNX Access Control eSuite+PC MTN6903-6300



### KNX Access Control RTC glass



Version	Art. no.
white	<b>MTN6903-6219</b>
black	<b>MTN6903-6214</b>
aluminium	<b>MTN6903-6260</b>

With room temperature control unit and display.

The room temperature control unit can be used for heating and cooling with infinitely adjustable.

KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the fan status, automatic/manual mode, temperature and operating mode.

The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.

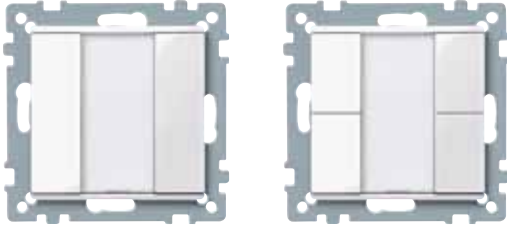
The device has one free potential binary input for door contact, window contacts, bathroom alarm or other needed inputs. On the device there are one low voltage relay for any other freely configurable use as locker open signal.

With integrated bus coupler. The bus is connected using a bus connecting terminal.

**Accessories:** KNX Access Control RFID Card reader glass MTN6903-60..., KNX Access Control RFID Card holder glass MTN6903-61..., KNX Access Control USB card prog. MTN6903-6301, KNX Access Control eSuite+PC MTN6903-6300

# Push-button

## Push-buttons System M



### Push-button, 1-gang plus



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN617144</b>
<input type="checkbox"/> polar white, glossy	<b>MTN617119</b>
<input type="checkbox"/> active white, glossy	<b>MTN617125</b>
<input checked="" type="checkbox"/> anthracite	<b>MTN627514</b>
<input checked="" type="checkbox"/> aluminium	<b>MTN627560</b>

For System M.  
 With integrated bus coupling unit.  
 Push-button with 2 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light.  
 The device is connected to the bus line with a bus connecting terminal.  
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.  
**Accessories:** Labelling sheets for push-buttons System M MTN6183..  
**Contents:** With protective hood for plaster. With bus connecting terminal.

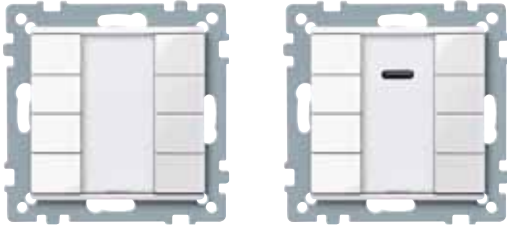
### Push-button, 2-gang plus



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN617244</b>
<input type="checkbox"/> polar white, glossy	<b>MTN617219</b>
<input type="checkbox"/> active white, glossy	<b>MTN617225</b>
<input checked="" type="checkbox"/> anthracite	<b>MTN627614</b>
<input checked="" type="checkbox"/> aluminium	<b>MTN627660</b>

For System M.  
 With integrated bus coupling unit.  
 Push-button with 4 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light.  
 The device is connected to the bus line with a bus connecting terminal.  
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.  
**Accessories:** Labelling sheets for push-buttons System M MTN6183..  
**Contents:** With protective hood for plaster. With bus connecting terminal.

# Push-button



Push-button, 4-gang plus		Push-button, 4-gang plus with IR receiver	
Version	Art. no.	Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN617444</b>	<input checked="" type="checkbox"/> white, glossy	<b>MTN617544</b>
<input type="checkbox"/> polar white, glossy	<b>MTN617419</b>	<input type="checkbox"/> polar white, glossy	<b>MTN617519</b>
<input type="checkbox"/> active white, glossy	<b>MTN617425</b>	<input type="checkbox"/> active white, glossy	<b>MTN617525</b>
<input checked="" type="checkbox"/> anthracite	<b>MTN627814</b>	<input checked="" type="checkbox"/> anthracite	<b>MTN627914</b>
<input checked="" type="checkbox"/> aluminium	<b>MTN627860</b>	<input checked="" type="checkbox"/> aluminium	<b>MTN627960</b>

For System M.  
With integrated bus coupling unit.  
Push-button with 8 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light.  
The device is connected to the bus line with a bus connecting terminal.  
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.  
**Accessories:** Labelling sheets for push-buttons System M MTN6183..  
**Contents:** With protective hood for plaster. With bus connecting terminal.

For System M.  
With integrated bus coupling unit.  
Push-button with 8 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light.  The functions of each of the keys can be triggered using an IR remote control.  The push-button is pre-programmed for operation with a Merten IR remote control Distance. Many other IR remote controls (e.g. existing TV or CD player remote controls) can be taught into the push-buttons.  
The device is connected to the bus line with a bus connecting terminal.  
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.  
**Accessories:** Labelling sheets for multi-function push-button with IR receiver System M MTN6184 ..  
**Transmitter:** IR universal remote control MTN5761-0000  
**Contents:** With protective hood for plaster. With bus connecting terminal.



Labelling sheets for push-buttons		Labelling sheets for multi-function push-button with IR receiver	
Version	Art. no.	Version	Art. no.
polar white	<b>MTN618319</b>	polar white	<b>MTN618419</b>
silver	<b>MTN618320</b>	silver	<b>MTN618420</b>

For individual labelling of the System M push-buttons with text or symbols.  
**Accessories from:** Push-button, 1-gang plus System M MTN6275..., MTN6171..., Push-button, 2-gang plus System M MTN6276..., MTN6172..., Push-button, 4-gang plus System M MTN6278..., MTN6174..  
**Contents:** 1 sheet for every 28 products.

For individual labelling of the System M multi-function push-button with IR receiver.  
**Accessories from:** Push-button, 4-gang plus with IR receiver System M MTN6279..., MTN6175..  
**Contents:** 1 sheet for every 28 products.

# Push-button



## Protective hood for plaster



Version

Art. no.

**MTN627591**

For System M.

To protect push-buttons, rockers, room temperature control units and room controllers from contamination from painting and decorating work.

**Accessories from:** Push-button, 1-gang plus System M MTN6275..., MTN6171..., Push-button, 2-gang plus System M MTN6276..., MTN6172..., Push-button, 4-gang plus System M MTN6278..., MTN6174..., Push-button, 4-gang plus with IR receiver System M MTN6279..., MTN6175..., Push-button 2-gang plus with room temperature control unit System M MTN6212-03.. /-04..., Rocker for 1-gang push-button module System M MTN6191..., MTN6251..., Rocker for 1-gang push-button module with 1/0 imprint System M MTN6254..., MTN6193..., Rocker for 1-gang push-button module with up/down arrow imprint System M MTN6255..., MTN6194..., Rockers for 2-gang push-button module System M MTN6192..., MTN6252..., Rockers for 2-gang push-button module with 1/0 and up/down arrow imprint System M MTN6256..., MTN6195..., Rockers for 2-gang push-button module with up/down arrow and 1/0 imprint System M MTN6257..., MTN6196..., Rockers for 2-gang push-button module with up/down arrow imprint System M MTN6258..., MTN6197..

**Note:** When the protective hood for plaster is in place, the temperature measurement of the room temperature control unit is restricted.

# Push-button



**Push-button 2-gang plus with room temperature control unit**



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN6212-0344</b>
<input type="checkbox"/> polar white, glossy	<b>MTN6212-0319</b>
<input type="checkbox"/> active white, glossy	<b>MTN6212-0325</b>
<input checked="" type="checkbox"/> anthracite	<b>MTN6212-0414</b>
<input type="checkbox"/> aluminium	<b>MTN6212-0460</b>

For System M.

Convenient control unit with 4 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light.

With room temperature control unit and display.

With 5 red LEDs.

The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day (external trigger), display mode, time, switching times and brightness of the display.

The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.

With integrated bus coupler. The bus is connected using a bus connecting terminal.

**KNX software functions:**

**Functions of the push-buttons:**

Switching, toggling, dimming, blind control (relative or absolute), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions, timed control with synchronisation, notification functions, the cyclic reading of external temperature values, fan control, operating modes, move setpoints.

**Functions of the room temperature control unit:**

Controller type: 2-step control, continuous PI controller, switching PI controller (PWM)

Output: continuous in the range 0 to 100% or switching ON/OFF

Controller mode:

- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- Heating and cooling with one controller output
- 2-step heating with 2 control outputs
- 2-step cooling with 2 control outputs
- 2-step heating and cooling with 4 control outputs

Operating modes: Comfort, comfort extension, standby, night reduction, frost/heat protection

Move all setpoints, save all setpoint temperatures and operating modes when reset, external temperature monitoring, additional output of the control value as 1 byte value on the PWM.

Monitoring function for the actual temperature, valve protection function.

Scene function.

Operation: Menu.

**Contents:** With bus connecting terminal and supporting plate.

Screw for protection against dismantling.

With protective hood for plaster.

# Push-button



## Push-button 4-gang plus with room temperature control unit



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN6214-0344</b>
<input type="checkbox"/> polar white, glossy	<b>MTN6214-0319</b>
<input type="checkbox"/> active white, glossy	<b>MTN6214-0325</b>
<input checked="" type="checkbox"/> anthracite	<b>MTN6214-0414</b>
<input type="checkbox"/> aluminium	<b>MTN6214-0460</b>

For System M.

Convenient control unit with 8 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light.

With room temperature control unit and display.

With integrated piezoelectric buzzer to display alarm states and IR receiver. All functions of the respective buttons can be controlled via IR remote control.

With 9 red LEDs.

The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day (external trigger), display mode, time, switching times and brightness of the display.

The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.

With integrated bus coupler. The bus is connected using a bus connecting terminal.

### KNX software functions:

#### Functions of the push-buttons:

Switching, toggling, dimming, blind control (relative or absolute), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions, timed control with synchronisation, notification functions, the cyclic reading of external temperature values, fan control, operating modes, move setpoints.

#### Functions of the room temperature control unit:

Controller type: 2-step control, continuous PI controller, switching PI controller (PWM)

Output: continuous in the range 0 to 100% or switching ON/OFF

#### Controller mode:

- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- Heating and cooling with one controller output
- 2-step heating with 2 control outputs
- 2-step cooling with 2 control outputs
- 2-step heating and cooling with 4 control outputs

Operating modes: Comfort, comfort extension, standby, night reduction, frost/heat protection

Move all setpoints, save all setpoint temperatures and operating modes when reset, external temperature monitoring, additional output of the control value as 1 byte value on the PWM.

Monitoring function for the actual temperature, valve protection function.

Scene function.

Operation: Menu.

**Transmitter:** IR universal remote control MTN5761-0000

**To be completed with:** M-Smart frame, 2-gang without central bridge piece MTN4788.., M-Arc frame, 2-gang without central bridge piece MTN4858.., M-Star frame, 2-gang without central bridge piece MTN4668.., MTN4768.., MTN4868.., M-Plan frames, 2-gang without central bridge piece MTN4888.., MTN5158.., Metal frame, 2-gang without central bridge piece M-Elegance MTN4038.., Real glass frame, 2-gang without central bridge piece M-Elegance MTN4048..

**Contents:** With bus connecting terminal and supporting plate.

Screw for protection against dismantling.

With protective hood for plaster.

# Push-button



### Rocker for 1-gang push-button module



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN619144</b>
<input type="checkbox"/> polar white, glossy	<b>MTN619119</b>
<input type="checkbox"/> active white, glossy	<b>MTN619125</b>
<input checked="" type="checkbox"/> anthracite	<b>MTN625114</b>
<input type="checkbox"/> aluminium	<b>MTN625160</b>

For System M.  
The rocker is attached to the 1-gang push-button module.  
**In KNX, to be completed with:** KNX push-button module, 1-gang System M MTN625199  
**Accessories:** Protective hood for plaster System M MTN627591

### Rocker for 1-gang push-button module with 1/0 imprint



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN619344</b>
<input type="checkbox"/> polar white, glossy	<b>MTN619319</b>
<input type="checkbox"/> active white, glossy	<b>MTN619325</b>
<input checked="" type="checkbox"/> anthracite	<b>MTN625414</b>
<input type="checkbox"/> aluminium	<b>MTN625460</b>

For System M.  
The rocker is attached to the 1-gang push-button module.  
**In KNX, to be completed with:** KNX push-button module, 1-gang System M MTN625199  
**Accessories:** Protective hood for plaster System M MTN627591



### Rocker for 1-gang push-button module with up/down arrow imprint



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN619444</b>
<input type="checkbox"/> polar white, glossy	<b>MTN619419</b>
<input type="checkbox"/> active white, glossy	<b>MTN619425</b>
<input checked="" type="checkbox"/> anthracite	<b>MTN625514</b>
<input type="checkbox"/> aluminium	<b>MTN625560</b>

For System M.  
The rocker is attached to the 1-gang push-button module.  
**In KNX, to be completed with:** KNX push-button module, 1-gang System M MTN625199  
**Accessories:** Protective hood for plaster System M MTN627591

### KNX push-button module, 1-gang



Version	Art. no.
	<b>MTN625199</b>

For System M.  
Push-button module without rocker. With programmable status display.  
The device is connected to the bus line with a bus connecting terminal. With integrated bus coupler.  
**KNX software functions:** The push-buttons can be parameterised either as a pair (dual-surface) or individually (single-surface).  
Single-surface: Switch ON or switch OFF, dimming, scenes.  
Dual-surface: Switch ON or switch OFF, dimming, scenes, blinds.  
**In KNX, to be completed with:** Rocker for 1-gang push-button module System M MTN6191..., MTN6251..., Rocker for 1-gang push-button module with 1/0 imprint System M MTN6254..., MTN6193..., Rocker for 1-gang push-button module with up/down arrow imprint System M MTN6255..., MTN6194..



# Push-button



### Rockers for 2-gang push-button module



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN619244</b>
<input type="checkbox"/> polar white, glossy	<b>MTN619219</b>
<input type="checkbox"/> active white, glossy	<b>MTN619225</b>
<input checked="" type="checkbox"/> anthracite	<b>MTN625214</b>
<input type="checkbox"/> aluminium	<b>MTN625260</b>

For System M.  
The rockers are attached to the 2-gang push-button module.  
**To be completed with:** Push-button module, 2-gang System M MTN568499  
**In KNX, to be completed with:** KNX push-button module, 2-gang System M MTN625299  
**Accessories:** Protective hood for plaster System M MTN627591

### Rockers for 2-gang push-button module with 1/0 and up/down arrow imprint



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN619544</b>
<input type="checkbox"/> polar white, glossy	<b>MTN619519</b>
<input type="checkbox"/> active white, glossy	<b>MTN619525</b>
<input checked="" type="checkbox"/> anthracite	<b>MTN625614</b>
<input type="checkbox"/> aluminium	<b>MTN625660</b>

For System M.  
The rockers are attached to the 2-gang push-button module.  
**In KNX, to be completed with:** KNX push-button module, 2-gang System M MTN625299  
**Accessories:** Protective hood for plaster System M MTN627591



### Rockers for 2-gang push-button module with up/down arrow and 1/0 imprint



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN619644</b>
<input type="checkbox"/> polar white, glossy	<b>MTN619619</b>
<input type="checkbox"/> active white, glossy	<b>MTN619625</b>
<input checked="" type="checkbox"/> anthracite	<b>MTN625714</b>
<input type="checkbox"/> aluminium	<b>MTN625760</b>

For System M.  
The rockers are attached to the 2-gang push-button module.  
**In KNX, to be completed with:** KNX push-button module, 2-gang System M MTN625299  
**Accessories:** Protective hood for plaster System M MTN627591

### Rockers for 2-gang push-button module with up/down arrow imprint



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN619744</b>
<input type="checkbox"/> polar white, glossy	<b>MTN619719</b>
<input type="checkbox"/> active white, glossy	<b>MTN619725</b>
<input checked="" type="checkbox"/> anthracite	<b>MTN625814</b>
<input type="checkbox"/> aluminium	<b>MTN625860</b>

For System M.  
The rockers are attached to the 2-gang push-button module.  
**In KNX, to be completed with:** KNX push-button module, 2-gang System M MTN625299  
**Accessories:** Protective hood for plaster System M MTN627591

# Push-button

## KNX push-button module, 2-gang

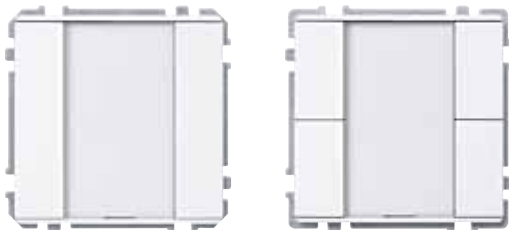


Version	Art. no.
	<b>MTN625299</b>

For System M.  
 Push-button module without rockers. With programmable status display.  
 The device is connected to the bus line with a bus connecting terminal. With integrated bus coupler.

**KNX software functions:** The push-buttons can be parameterised either as a pair (dual-surface) or individually (single-surface).  
 Single-surface: Switch ON or switch OFF, dimming, scenes.  
 Dual-surface: Switch ON or switch OFF, dimming, scenes, blinds.  
**In KNX, to be completed with:** Rockers for 2-gang push-button module System M MTN6192..., MTN6252..., Rockers for 2-gang push-button module with 1/0 and up/down arrow imprint System M MTN6256..., MTN6195..., Rockers for 2-gang push-button module with up/down arrow and 1/0 imprint System M MTN6257..., MTN6196..., Rockers for 2-gang push-button module with up/down arrow imprint System M MTN6258..., MTN6197...

## Push-buttons Artec/Tracent/Antique

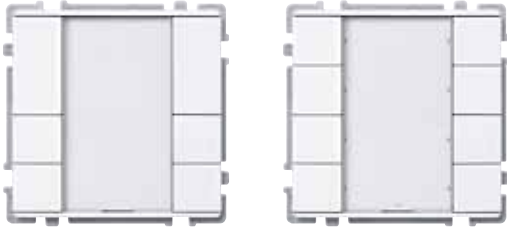


Push-button, 1-gang plus		Push-button, 2-gang plus	
Version	Art. no.	Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN628044</b>	<input checked="" type="checkbox"/> white, glossy	<b>MTN628144</b>
<input type="checkbox"/> polar white, glossy	<b>MTN628019</b>	<input type="checkbox"/> polar white, glossy	<b>MTN628119</b>
<input type="checkbox"/> aluminium	<b>MTN628060</b>	<input type="checkbox"/> aluminium	<b>MTN628160</b>
<input type="checkbox"/> stainless steel	<b>MTN628046</b>	<input type="checkbox"/> stainless steel	<b>MTN628146</b>

For Artec, Tracent, Antique.  
 With integrated bus coupling unit.  
 Push-button with two operating buttons, operating display, two blue status displays which can be triggered separately, and a labelling field. The blue operating display can also be used as an orientation sign. The lower labelling field can be parameterised as an additional operating key.  
 The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.  
 The device is connected to the bus line with a bus connecting terminal.  
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.  
**Accessories:** Labelling sheets for push-button plus MTN617819  
**Contents:** With protective hood for plaster. With bus connecting terminal.

For Artec, Tracent, Antique.  
 With integrated bus coupling unit.  
 Push-button with 4 operating buttons, operating display, 4 blue status displays which can be triggered separately, and a labelling field. The blue operating display can also be used as an orientation sign. The lower labelling field can be parameterised as an additional operating key.  
 The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.  
 The device is connected to the bus line with a bus connecting terminal.  
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.  
**Accessories:** Labelling sheets for push-button plus MTN617819  
**Contents:** With protective hood for plaster. With bus connecting terminal.

# Push-button



Push-button, 3-gang plus		Push-button, 4-gang plus	
Version	Art. no.	Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN628244</b>	<input checked="" type="checkbox"/> white, glossy	<b>MTN628344</b>
<input type="checkbox"/> polar white, glossy	<b>MTN628219</b>	<input type="checkbox"/> polar white, glossy	<b>MTN628319</b>
<input checked="" type="checkbox"/> aluminium	<b>MTN628260</b>	<input checked="" type="checkbox"/> aluminium	<b>MTN628360</b>
<input checked="" type="checkbox"/> stainless steel	<b>MTN628246</b>	<input checked="" type="checkbox"/> stainless steel	<b>MTN628346</b>

For Artec, Tracent, Antique.  
 With integrated bus coupling unit.  
 Push-button with six operating buttons, operating display, six blue status displays which can be triggered separately, and a labelling field. The blue operating display can also be used as an orientation sign. The lower labelling field can be parameterised as an additional operating key.  
 The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.  
 The device is connected to the bus line with a bus connecting terminal.  
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.  
**Accessories:** Labelling sheets for push-button plus MTN617819  
**Contents:** With protective hood for plaster. With bus connecting terminal.

For Artec, Tracent, Antique.  
 With integrated bus coupling unit.  
 Push-button with eight operating buttons, operating display, eight blue status displays which can be triggered separately, and a labelling field. The blue operating display can also be used as an orientation sign. The lower labelling field can be parameterised as an additional operating key.  
 The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.  
 The device is connected to the bus line with a bus connecting terminal.  
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.  
**Accessories:** Labelling sheets for push-button plus MTN617819  
**Contents:** With protective hood for plaster. With bus connecting terminal.

# Push-button



## Push-button, 4-gang plus with IR receiver



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN628444</b>
<input type="checkbox"/> polar white, glossy	<b>MTN628419</b>
<input type="checkbox"/> aluminium	<b>MTN628460</b>
<input type="checkbox"/> stainless steel	<b>MTN628446</b>

For Artec, Tracent, Antique.

With integrated bus coupling unit.

Push-button with eight operating buttons, operating display, eight blue status displays which can be triggered separately, and a labelling field. The blue operating display can also be used as an orientation sign. The lower labelling field can be parameterised as an additional operating key.

The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.

The functions of each of the keys can be triggered using an IR remote control. The push-button is pre-programmed for operation with a Merten IR remote control Distance. Many other IR remote controls (e.g. existing TV or CD player remote controls) can be taught to the push-buttons.

The device is connected to the bus line with a bus connecting terminal.

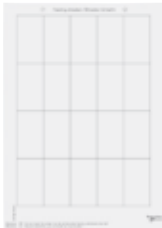
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.

**Accessories:** Labelling sheets for push-button plus MTN617819

**Transmitter:** IR universal remote control MTN5761-0000

**Contents:** With protective hood for plaster.

With bus connecting terminal.



## Labelling sheets for push-button plus



Version	Art. no.
	<b>MTN617819</b>

For individual labelling of the Artec/Tracent/Antique push-button plus with text or symbols.

**Accessories from:** Push-button, 2-gang plus Artec/Tracent/Antique MTN6281..., Push-button, 3-gang plus Artec/Tracent/Antique MTN6282..., Push-button, 4-gang plus Artec/Tracent/Antique MTN6283..., Push-button, 4-gang plus with IR receiver Artec/Tracent/Antique MTN6284..

**Contents:** 1 sheet for 20 products.

# Push-button



**Protective hood for plaster**



Version	Art. no.
	<b>MTN628091</b>

For Artec, Tracent, Antique.

To protect push-buttons, rockers, room temperature control units and room controllers from contamination from painting and decorating work.

**Accessories from:** Push-button, 2-gang plus Artec/Tracent/Antique MTN6281..., Push-button, 3-gang plus Artec/Tracent/Antique MTN6282..., Push-button, 4-gang plus Artec/Tracent/Antique MTN6283..., Push-button, 4-gang plus with IR receiver Artec/Tracent/Antique MTN6284..., Push-button 2-gang plus with room temperature control unit Artec MTN6212-40.. /-41..., Room temperature control unit with display Artec MTN6241-40.. /-41..., Rocker for 1-gang push-button module Artec/Tracent/Antique MTN6261..., Rocker for 1-gang push-button module with 1/0 imprint Artec/Tracent/Antique MTN6264..., Rocker for 1-gang push-button module with up/down arrow imprint Artec/Tracent/Antique MTN6265..., Rockers for 2-gang push-button module Artec/Tracent/Antique MTN6262..., Rockers for 2-gang push-button module with 1/0 and up/down arrow imprint Artec/Tracent/Antique MTN6266..., Rockers for 2-gang push-button module with up/down arrow and 1/0 imprint Artec/Tracent/Antique MTN6267..., Rockers for 2-gang push-button module with up/down arrow imprint Artec/Tracent/Antique MTN6268..

**Note:** When the protective hood for plaster is in place, the temperature measurement of the room temperature control unit is restricted.

# Push-button



## Push-button 2-gang plus with room temperature control unit



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN6212-4044</b>
<input type="checkbox"/> polar white, glossy	<b>MTN6212-4019</b>
<input type="checkbox"/> aluminium	<b>MTN6212-4060</b>
<input type="checkbox"/> stainless steel	<b>MTN6212-4146</b>

For Artec, Tracent, Antique.

Convenient control unit with 4 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light.

With room temperature control unit and display.

With 5 blue LEDs.

The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day (external trigger), display mode, time, switching times and brightness of the display.

The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.

With integrated bus coupler. The bus is connected using a bus connecting terminal.

### KNX software functions:

#### Functions of the push-buttons:

Switching, toggling, dimming, blind control (relative or absolute), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions, timed control with synchronisation, notification functions, the cyclic reading of external temperature values, fan control, operating modes, move setpoints.

#### Functions of the room temperature control unit:

Controller type: 2-step control, continuous PI controller, switching PI controller (PWM)

Output: continuous in the range 0 to 100% or switching ON/OFF

#### Controller mode:

- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- Heating and cooling with one controller output
- 2-step heating with 2 control outputs
- 2-step cooling with 2 control outputs
- 2-step heating and cooling with 4 control outputs

Operating modes: Comfort, comfort extension, standby, night reduction, frost/heat protection

Move all setpoints, save all setpoint temperatures and operating modes when reset, external temperature monitoring, additional output of the control value as 1 byte value on the PWM.

Monitoring function for the actual temperature, valve protection function.

Scene function.

Operation: Menu.

**Contents:** With bus connecting terminal and supporting plate.

Screw for protection against dismantling.

With protective hood for plaster.

# Push-button



## Push-button 4-gang plus with room temperature control unit



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN6214-4044</b>
<input type="checkbox"/> polar white, glossy	<b>MTN6214-4019</b>
<input type="checkbox"/> aluminium	<b>MTN6214-4060</b>
<input type="checkbox"/> stainless steel	<b>MTN6214-4146</b>

For Artec, Tracent, Antique.

Convenient control unit with 8 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light.

With room temperature control unit and display.

With integrated piezoelectric buzzer to display alarm states and IR receiver. All functions of the respective buttons can be controlled via IR remote control.

With 9 blue LEDs.

The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day (external trigger), display mode, time, switching times and brightness of the display.

The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.

With integrated bus coupler. The bus is connected using a bus connecting terminal.

### KNX software functions:

#### Functions of the push-buttons:

Switching, toggling, dimming, blind control (relative or absolute), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions, timed control with synchronisation, notification functions, the cyclic reading of external temperature values, fan control, operating modes, move setpoints.

#### Functions of the room temperature control unit:

Controller type: 2-step control, continuous PI controller, switching PI controller (PWM)

Output: continuous in the range 0 to 100% or switching ON/OFF

#### Controller mode:

- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- Heating and cooling with one controller output
- 2-step heating with 2 control outputs
- 2-step cooling with 2 control outputs
- 2-step heating and cooling with 4 control outputs

Operating modes: Comfort, comfort extension, standby, night reduction, frost/heat protection

Move all setpoints, save all setpoint temperatures and operating modes when reset, external temperature monitoring, additional output of the control value as 1 byte value on the PWM.

Monitoring function for the actual temperature, valve protection function.

Scene function.

Operation: Menu.

**Transmitter:** IR universal remote control MTN5761-0000

**To be completed with:** Artec frame, 1.5-gang MTN4819..

**Contents:** With bus connecting terminal and supporting plate.

Screw for protection against dismantling.

With protective hood for plaster.

# Push-button



### Rocker for 1-gang push-button module



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN626144</b>
<input type="checkbox"/> polar white, glossy	<b>MTN626119</b>
<input type="checkbox"/> aluminium	<b>MTN626160</b>
<input type="checkbox"/> varnished stainless steel	<b>MTN626146</b>

For Artec, Trancent, Antique.  
The rocker is attached to the 1-gang push-button module.  
**In KNX, to be completed with:** KNX push-button module, 1-gang Artec/Trancent/Antique MTN626199  
**Accessories:** Protective hood for plaster Artec/Trancent/Antique MTN628091

### Rocker for 1-gang push-button module with 1/0 imprint



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN626444</b>
<input type="checkbox"/> polar white, glossy	<b>MTN626419</b>
<input type="checkbox"/> aluminium	<b>MTN626460</b>
<input type="checkbox"/> varnished stainless steel	<b>MTN626446</b>

For Artec, Trancent, Antique.  
The rocker is attached to the 1-gang push-button module.  
**In KNX, to be completed with:** KNX push-button module, 1-gang Artec/Trancent/Antique MTN626199  
**Accessories:** Protective hood for plaster Artec/Trancent/Antique MTN628091

### Rocker for 1-gang push-button module with up/down arrow imprint



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN626544</b>
<input type="checkbox"/> polar white, glossy	<b>MTN626519</b>
<input type="checkbox"/> aluminium	<b>MTN626560</b>
<input type="checkbox"/> varnished stainless steel	<b>MTN626546</b>

For Artec, Trancent, Antique.  
The rocker is attached to the 1-gang push-button module.  
**In KNX, to be completed with:** KNX push-button module, 1-gang Artec/Trancent/Antique MTN626199  
**Accessories:** Protective hood for plaster Artec/Trancent/Antique MTN628091

### KNX push-button module, 1-gang



Version	Art. no.
	<b>MTN626199</b>

For Artec, Trancent, Antique.  
Push-button module without rocker. With programmable status display.  
The device is connected to the bus line with a bus connecting terminal. With integrated bus coupler.  
**KNX software functions:** The push-buttons can be parameterised either as a pair (dual-surface) or individually (single-surface).  
Single-surface: Switch ON or switch OFF, dimming, scenes.  
Dual-surface: Switch ON or switch OFF, dimming, scenes, blinds.  
**In KNX, to be completed with:** Rocker for 1-gang push-button module Artec/Trancent/Antique MTN6261..., Rocker for 1-gang push-button module with 1/0 imprint Artec/Trancent/Antique MTN6264..., Rocker for 1-gang push-button module with up/down arrow imprint Artec/Trancent/Antique MTN6265..



# Push-button



**Rockers for 2-gang push-button module**



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN626244</b>
<input type="checkbox"/> polar white, glossy	<b>MTN626219</b>
<input type="checkbox"/> aluminium	<b>MTN626260</b>
<input type="checkbox"/> varnished stainless steel	<b>MTN626246</b>

For Artec, Trancent, Antique.  
The rockers are attached to the 2-gang push-button module.  
**To be completed with:** Push-button module, 2-gang Artec/Trancent/Antique MTN568199  
**In KNX, to be completed with:** KNX push-button module, 2-gang Artec/Trancent/Antique MTN626299  
**Accessories:** Protective hood for plaster Artec/Trancent/Antique MTN628091

**Rockers for 2-gang push-button module with 1/0 and up/down arrow imprint**



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN626644</b>
<input type="checkbox"/> polar white, glossy	<b>MTN626619</b>
<input type="checkbox"/> aluminium	<b>MTN626660</b>
<input type="checkbox"/> varnished stainless steel	<b>MTN626646</b>

For Artec, Trancent, Antique.  
The rockers are attached to the 2-gang push-button module.  
**In KNX, to be completed with:** KNX push-button module, 2-gang Artec/Trancent/Antique MTN626299  
**Accessories:** Protective hood for plaster Artec/Trancent/Antique MTN628091



**Rockers for 2-gang push-button module with up/down arrow and 1/0 imprint**



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN626744</b>
<input type="checkbox"/> polar white, glossy	<b>MTN626719</b>
<input type="checkbox"/> aluminium	<b>MTN626760</b>
<input type="checkbox"/> varnished stainless steel	<b>MTN626746</b>

For Artec, Trancent, Antique.  
The rockers are attached to the 2-gang push-button module.  
**In KNX, to be completed with:** KNX push-button module, 2-gang Artec/Trancent/Antique MTN626299  
**Accessories:** Protective hood for plaster Artec/Trancent/Antique MTN628091

**Rockers for 2-gang push-button module with up/down arrow imprint**



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN626844</b>
<input type="checkbox"/> polar white, glossy	<b>MTN626819</b>
<input type="checkbox"/> aluminium	<b>MTN626860</b>
<input type="checkbox"/> varnished stainless steel	<b>MTN626846</b>

For Artec, Trancent, Antique.  
The rockers are attached to the 2-gang push-button module.  
**In KNX, to be completed with:** KNX push-button module, 2-gang Artec/Trancent/Antique MTN626299  
**Accessories:** Protective hood for plaster Artec/Trancent/Antique MTN628091

# Push-button

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## KNX push-button module, 2-gang



Version

Art. no.

**MTN626299**

For Artec, Tracent, Antique.

Push-button module without rockers. With programmable status display.

The device is connected to the bus line with a bus connecting terminal. With integrated bus coupler.

**KNX software functions:** The push-buttons can be parameterised either as a pair (dual-surface) or individually (single-surface).

Single-surface: Switch ON or switch OFF, dimming, scenes.

Dual-surface: Switch ON or switch OFF, dimming, scenes, blinds.

**In KNX, to be completed with:** Rockers for 2-gang push-button module Artec/Tracent/Antique MTN6262..., Rockers for 2-gang push-button module with 1/0 and up/down arrow imprint Artec/Tracent/Antique MTN6266..., Rockers for 2-gang push-button module with up/down arrow and 1/0 imprint Artec/Tracent/Antique MTN6267..., Rockers for 2-gang push-button module with up/down arrow imprint Artec/Tracent/Antique MTN6268..

# Push-button

## Push-buttons Altira



### KNX push-button 1-gang



Version	Art. no.
white	<b>ALB45150</b>
aluminium	<b>ALB46150</b>

2 modules  
In Altira design.  
KNX-push-button with 2 buttons and 2 blue status LEDs. The status LED is located under the symbol window which can be taken off.  
With integrated bus coupler. The bus is connected using a bus connecting terminal.  
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.  
**Contents:** With set of 10 symbols: 2x symbol with light opening, 1x symbol "1", 1x symbol "0", 2x symbol for dimming, 2x symbol for shutter, 2x symbol (neutral).  
With bus connecting terminal.

### KNX push-button 2-gang



Version	Art. no.
white	<b>ALB45151</b>
aluminium	<b>ALB46151</b>

2 modules  
In Altira design.  
KNX-push-button with 4 buttons and 4 blue status LEDs. The status LED is located under the symbol window which can be taken off.  
With integrated bus coupler. The bus is connected using a bus connecting terminal.  
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.  
**Contents:** With set of 20 symbols: 4x symbol with light opening, 2x symbol "1", 2x symbol "0", 4x symbol for dimming, 4x symbol for shutter, 4x symbol (neutral).  
With bus connecting terminal.

### KNX 1-gang push-button with IR receiver



Version	Art. no.
white	<b>ALB45152</b>
aluminium	<b>ALB46152</b>

2 modules  
In Altira design.  
KNX-push-button with 2 buttons, blue status LED and IR receiver. The status LED is located under the symbol window which can be taken off.  
The functions of each of the button can be triggered using an IR remote control.  
The push-button is pre-programmed for operation with a Schneider-Electric IR remote control Distance. Many other IR remote controls (e.g. existing TV or CD player remote controls) can be taught into the push-buttons.  
With integrated bus coupler. The bus is connected using a bus connecting terminal.  
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.  
**Transmitter:** IR universal remote control MTN5761-0000  
**Contents:** With bus connecting terminal.

# Push-button

## Push-buttons Unica



### KNX push-button 1-gang



Version	Art. no.
<input type="checkbox"/> white	<b>MGU3.530.18</b>
<input type="checkbox"/> ivory	<b>MGU3.530.25</b>

2 modules  
In Unica design.  
KNX-push-button with 2 buttons and 2 blue status LEDs. The status LED is located under the symbol window which can be taken off.  
With integrated bus coupler. The bus is connected using a bus connecting terminal.  
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.  
**Contents:** With set of 10 symbols: 2x symbol with light opening, 1x symbol "1", 1x symbol "0", 2x symbol for dimming, 2x symbol for shutter, 2x symbol (neutral).  
With bus connecting terminal.

### KNX push-button 2-gang



Version	Art. no.
<input type="checkbox"/> white	<b>MGU3.531.18</b>
<input type="checkbox"/> ivory	<b>MGU3.531.25</b>

2 modules  
In Unica design.  
KNX-push-button with 4 buttons and 4 blue status LEDs. The status LED is located under the symbol window which can be taken off.  
With integrated bus coupler. The bus is connected using a bus connecting terminal.  
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.  
**Contents:** With set of 20 symbols: 4x symbol with light opening, 2x symbol "1", 2x symbol "0", 4x symbol for dimming, 4x symbol for shutter, 4x symbol (neutral).  
With bus connecting terminal.

### KNX 1-gang push-button with IR receiver





Version	Art. no.
<input type="checkbox"/> white	<b>MGU3.532.18</b>
<input type="checkbox"/> ivory	<b>MGU3.532.25</b>

2 modules  
In Unica design.  
KNX-push-button with 2 buttons, blue status LED and IR receiver. The status LED is located under the symbol window which can be taken off.  
The functions of each of the button can be triggered using an IR remote control.  
The push-button is pre-programmed for operation with a Schneider-Electric IR remote control Distance. Many other IR remote controls (e.g. existing TV or CD player remote controls) can be taught into the push-buttons.  
With integrated bus coupler. The bus is connected using a bus connecting terminal.  
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.  
**Transmitter:** IR universal remote control MTN5761-0000  
**Contents:** With bus connecting terminal.

# Push-button




KNX push-button 1-gang		KNX push-button 2-gang	
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Version	Art. no.	Version	Art. no.
<input type="checkbox"/> white	<b>MGU5.530.18</b>	<input type="checkbox"/> white	<b>MGU5.531.18</b>
<input type="checkbox"/> ivory	<b>MGU5.530.25</b>	<input type="checkbox"/> ivory	<b>MGU5.531.25</b>

2 modules  
In Unica design.  
KNX-push-button with 2 buttons and 2 blue status LEDs. The status LED is located under the symbol window which can be taken off.  
With integrated bus coupler. The bus is connected using a bus connecting terminal.  
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.  
**Contents:** With fixing frame.  
With set of 10 symbols: 2x symbol with light opening, 1x symbol "1", 1x symbol "0", 2x symbol for dimming, 2x symbol for shutter, 2x symbol (neutral).  
With bus connecting terminal.

2 modules  
In Unica design.  
KNX-push-button with 4 buttons and 4 blue status LEDs. The status LED is located under the symbol window which can be taken off.  
With integrated bus coupler. The bus is connected using a bus connecting terminal.  
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.  
**Contents:** With fixing frame.  
With set of 20 symbols: 4x symbol with light opening, 2x symbol "1", 2x symbol "0", 4x symbol for dimming, 4x symbol for shutter, 4x symbol (neutral).  
With bus connecting terminal.

### KNX 1-gang push-button with IR receiver

	
Version	Art. no.
<input type="checkbox"/> white	<b>MGU5.532.18</b>
<input type="checkbox"/> ivory	<b>MGU5.532.25</b>

2 modules  
In Unica design.  
KNX-push-button with 2 buttons, blue status LED and IR receiver. The status LED is located under the symbol window which can be taken off.  
The functions of each of the button can be triggered using an IR remote control.  
The push-button is pre-programmed for operation with a Schneider-Electric IR remote control Distance. Many other IR remote controls (e.g. existing TV or CD player remote controls) can be taught into the push-buttons.  
With integrated bus coupler. The bus is connected using a bus connecting terminal.  
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.  
**Transmitter:** IR universal remote control MTN5761-0000  
**Contents:** With fixing frame.  
With bus connecting terminal.

# Push-button



## KNX push-button 1-gang

Version	Art. no.
<input type="checkbox"/> white	<b>MGU50.530.18</b>
<input checked="" type="checkbox"/> ivory	<b>MGU50.530.25</b>

2 modules  
In Unica design.  
KNX-push-button with 2 buttons and 2 blue status LEDs. The status LED is located under the symbol window which can be taken off.  
With integrated bus coupler. The bus is connected using a bus connecting terminal.  
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.  
**Contents:** With fixing frame and claws.  
With set of 10 symbols: 2x symbol with light opening, 1x symbol "1", 1x symbol "0", 2x symbol for dimming, 2x symbol for shutter, 2x symbol (neutral).  
With bus connecting terminal.

## KNX push-button 2-gang

Version	Art. no.
<input type="checkbox"/> white	<b>MGU50.531.18</b>
<input checked="" type="checkbox"/> ivory	<b>MGU50.531.25</b>

2 modules  
In Unica design.  
KNX-push-button with 4 buttons and 4 blue status LEDs. The status LED is located under the symbol window which can be taken off.  
With integrated bus coupler. The bus is connected using a bus connecting terminal.  
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.  
**Contents:** With fixing frame and claws.  
With set of 20 symbols: 4x symbol with light opening, 2x symbol "1", 2x symbol "0", 4x symbol for dimming, 4x symbol for shutter, 4x symbol (neutral).  
With bus connecting terminal.

## KNX 1-gang push-button with IR receiver

Version	Art. no.
<input type="checkbox"/> white	<b>MGU50.532.18</b>
<input checked="" type="checkbox"/> ivory	<b>MGU50.532.25</b>

2 modules  
In Unica design.  
KNX-push-button with 2 buttons, blue status LED and IR receiver. The status LED is located under the symbol window which can be taken off.  
The functions of each of the button can be triggered using an IR remote control.  
The push-button is pre-programmed for operation with a Schneider-Electric IR remote control Distance. Many other IR remote controls (e.g. existing TV or CD player remote controls) can be taught into the push-buttons.  
With integrated bus coupler. The bus is connected using a bus connecting terminal.  
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.  
**Transmitter:** IR universal remote control MTN5761-0000  
**Contents:** With fixing frame and claws.  
With bus connecting terminal.

# Push-button

## Push-buttons Unica Top



### KNX push-button 1-gang



Version	Art. no.
■ aluminium	<b>MGU3.530.30</b>
■ graphite	<b>MGU3.530.12</b>

2 modules  
In Unica Top design.  
KNX-push-button with 2 buttons and 2 blue status LEDs. The status LED is located under the symbol window which can be taken off.  
With integrated bus coupler. The bus is connected using a bus connecting terminal.  
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.  
**Contents:** With set of 10 symbols: 2x symbol with light opening, 1x symbol "1", 1x symbol "0", 2x symbol for dimming, 2x symbol for shutter, 2x symbol (neutral).  
With bus connecting terminal.

### KNX push-button 2-gang



Version	Art. no.
■ aluminium	<b>MGU3.531.30</b>
■ graphite	<b>MGU3.531.12</b>

2 modules  
In Unica Top design.  
KNX-push-button with 4 buttons and 4 blue status LEDs. The status LED is located under the symbol window which can be taken off.  
With integrated bus coupler. The bus is connected using a bus connecting terminal.  
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.  
**Contents:** With set of 20 symbols: 4x symbol with light opening, 2x symbol "1", 2x symbol "0", 4x symbol for dimming, 4x symbol for shutter, 4x symbol (neutral).  
With bus connecting terminal.

### KNX 1-gang push-button with IR receiver



Version	Art. no.
■ aluminium	<b>MGU3.532.30</b>
■ graphite	<b>MGU3.532.12</b>

2 modules  
In Unica Top design.  
KNX-push-button with 2 buttons, blue status LED and IR receiver. The status LED is located under the symbol window which can be taken off.  
The functions of each of the button can be triggered using an IR remote control.  
The push-button is pre-programmed for operation with a Schneider-Electric IR remote control Distance. Many other IR remote controls (e.g. existing TV or CD player remote controls) can be taught into the push-buttons.  
With integrated bus coupler. The bus is connected using a bus connecting terminal.  
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.  
**Transmitter:** IR universal remote control MTN5761-0000  
**Contents:** With bus connecting terminal.

# Push-button



## KNX push-button 1-gang

Version	Art. no.
■ aluminium	<b>MGU5.530.30</b>
■ graphite	<b>MGU5.530.12</b>

2 modules  
In Unica Top design.  
KNX-push-button with 2 buttons and 2 blue status LEDs. The status LED is located under the symbol window which can be taken off.  
With integrated bus coupler. The bus is connected using a bus connecting terminal.  
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.  
**Contents:** With fixing frame.  
With set of 10 symbols: 2x symbol with light opening, 1x symbol "1", 1x symbol "0", 2x symbol for dimming, 2x symbol for shutter, 2x symbol (neutral).  
With bus connecting terminal.

## KNX push-button 2-gang

Version	Art. no.
■ aluminium	<b>MGU5.531.30</b>
■ graphite	<b>MGU5.531.12</b>

2 modules  
In Unica Top design.  
KNX-push-button with 4 buttons and 4 blue status LEDs. The status LED is located under the symbol window which can be taken off.  
With integrated bus coupler. The bus is connected using a bus connecting terminal.  
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.  
**Contents:** With fixing frame.  
With set of 20 symbols: 4x symbol with light opening, 2x symbol "1", 2x symbol "0", 4x symbol for dimming, 4x symbol for shutter, 4x symbol (neutral).  
With bus connecting terminal.

## KNX 1-gang push-button with IR receiver

Version	Art. no.
■ aluminium	<b>MGU5.532.30</b>
■ graphite	<b>MGU5.532.12</b>

2 modules  
In Unica Top design.  
KNX-push-button with 2 buttons, blue status LED and IR receiver. The status LED is located under the symbol window which can be taken off.  
The functions of each of the button can be triggered using an IR remote control.  
The push-button is pre-programmed for operation with a Schneider-Electric IR remote control Distance. Many other IR remote controls (e.g. existing TV or CD player remote controls) can be taught into the push-buttons.  
With integrated bus coupler. The bus is connected using a bus connecting terminal.  
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.  
**Transmitter:** IR universal remote control MTN5761-0000  
**Contents:** With fixing frame.  
With bus connecting terminal.



# Push-button



## KNX push-button 1-gang



Version	Art. no.
■ aluminium	<b>MGU50.530.30</b>
■ graphite	<b>MGU50.530.12</b>

2 modules  
 In Unica Top design.  
 KNX-push-button with 2 buttons and 2 blue status LEDs. The status LED is located under the symbol window which can be taken off.  
 With integrated bus coupler. The bus is connected using a bus connecting terminal.  
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.  
**Contents:** With fixing frame and claws.  
 With set of 10 symbols: 2x symbol with light opening, 1x symbol "1", 1x symbol "0", 2x symbol for dimming, 2x symbol for shutter, 2x symbol (neutral).  
 With bus connecting terminal.

## KNX push-button 2-gang



Version	Art. no.
■ aluminium	<b>MGU50.531.30</b>
■ graphite	<b>MGU50.531.12</b>

2 modules  
 In Unica Top design.  
 KNX-push-button with 4 buttons and 4 blue status LEDs. The status LED is located under the symbol window which can be taken off.  
 With integrated bus coupler. The bus is connected using a bus connecting terminal.  
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.  
**Contents:** With fixing frame and claws.  
 With set of 20 symbols: 4x symbol with light opening, 2x symbol "1", 2x symbol "0", 4x symbol for dimming, 4x symbol for shutter, 4x symbol (neutral).  
 With bus connecting terminal.

## KNX 1-gang push-button with IR receiver





Version	Art. no.
■ aluminium	<b>MGU50.532.30</b>
■ graphite	<b>MGU50.532.12</b>

2 modules  
 In Unica Top design.  
 KNX-push-button with 2 buttons, blue status LED and IR receiver. The status LED is located under the symbol window which can be taken off.  
 The functions of each of the button can be triggered using an IR remote control.  
 The push-button is pre-programmed for operation with a Schneider-Electric IR remote control Distance. Many other IR remote controls (e.g. existing TV or CD player remote controls) can be taught into the push-buttons.  
 With integrated bus coupler. The bus is connected using a bus connecting terminal.  
**KNX software functions:** Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.  
**Transmitter:** IR universal remote control MTN5761-0000  
**Contents:** With fixing frame and claws.  
 With bus connecting terminal.

# KNX

## Overview binary inputs

	Push-button interface plus		Binary input REG-K/x10	
				
Article number	MTN670802	MTN670804	MTN644492	MTN644592
Number of channels	2	4	4	8
Outputs	2 (only for low-current LEDs)	4 (only for low-current LEDs)	—	—
Device width	40x30.5x12.5 mm (LxWxH)		2.5 modules	4 modules
Use cases	Connection of conventional push-buttons or floating contacts		Connection of conventional push-buttons or floating contacts	
Installation site	In the vicinity of push-buttons		Cabinet	
Connecting terminal	—		Plug-in screw terminals	
Internally generated voltage	■		■	
Input voltage / Contact voltage	— / 3.5 V		— / 10 V	
Input current / Contact current	— / 2 mA		— / 2 mA	
Tresholds	—		—	
Maximum line length	7.5 m		50 m	
<b>Software</b>				
Toggle	■		■	
Switching	■		■	
Dimming (via one/two inputs)	■		■	
Blind (via one/two inputs)	■		■	
Blind with position values	■		■	
Edges (1 bit, 2 bit, 4 bit, 1 byte, 2 byte)	■		■	
Edges (1 bit, 2 bit, 4 bit, 1 byte, 2 byte) short and long operation	■		■	
8 bit slider	■		■	
Scenes	■		■	
Pulse counter	■		■	
Switch counter	■		■	
Reset counter	■		■	
Cyclical sending (1 bit, 2 bit, 1 byte)	■		■	
Locking function for each channel	■		■	
Locking function	■		■	
■ Adjustable for each channel	■		■	
■ All channels follow the function of a master channel	■		■	



# Binary inputs

## Binary inputs



### Push-button interface, 2-gang plus



Version	Art. no.
polar white	<b>MTN670802</b>

Generates an internal signal voltage for connecting two conventional push-buttons or floating contacts, and for connecting two low-current LEDs.

The cores are 30 cm long and can be extended to max. 7.5 m. For installation in a conventional 60 mm switch box.

**KNX software functions:** Switching, dimming or controlling blinds via 1 or 2 inputs, position values for blind control (8-bit), pulse edges with 1-, 2-, 4-, or 8-bit telegrams, differentiation between short and long activation, initialisation telegram, cyclical transmission, pulse edges with 2-byte telegrams, 8-bit linear regulator, scenes, counter, disable function, break contact/ make contact, debounce time. Outputs for connecting control lamps (low-current LEDs) for the status display.

**For each input/output object type:**

**Contact voltage:** < 3 V (SELV)

**Contact current:** < 0.5 mA

**Output current:** max. 2 mA

**Max. cable length:** 30 cm unshielded, can be extended up to max. 7.5 m with twisted unshielded cable.

**Dimensions:** approx. 40x30.5x12.5 mm (LxWxH)



### Push-button interface, 4-gang plus



Version	Art. no.
polar white	<b>MTN670804</b>

Generates an internal signal voltage for connecting four conventional push-buttons or floating contacts, and for connecting four low-current LEDs.

The cores are 30 cm long and can be extended to max. 7.5 m. For installation in a conventional 60 mm switch box.

**KNX software functions:** Switching, dimming or controlling blinds via 1 or 2 inputs, position values for blind control (8-bit), pulse edges with 1-, 2-, 4-, or 8-bit telegrams, differentiation between short and long activation, initialisation telegram, cyclical transmission, pulse edges with 2-byte telegrams, 8-bit linear regulator, scenes, counter, disable function, break contact/ make contact, debounce time. Outputs for connecting control lamps (low-current LEDs) for the status display.

**For each input/output object type:**

**Contact voltage:** < 3 V (SELV)

**Contact current:** < 0.5 mA

**Output current:** max. 2 mA

**Max. cable length:** 30 cm unshielded, can be extended up to max. 7.5 m with twisted unshielded cable.

**Dimensions:** approx. 40x30.5x12.5 mm (LxWxH)

# Binary inputs



## Binary input REG-K/4x10



Version	Art. no.
light grey	<b>MTN644492</b>

For connecting four conventional push-buttons or floating contacts to the KNX. Internally generates a signal voltage SELV, electrically isolated from the bus. With integrated bus coupler and plug-in screw terminals. The input voltage level is displayed at each input with a yellow LED. A green LED indicates that the device is ready for operation once the application has been loaded. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Switching, dimming or blind control via 1 or 2 inputs. Positioning values for blind control (8-bit). Pulse edges with 1-, 2-, 4-, or 8-bit telegrams. Differentiation between short/long operation. Initialisation telegram. Cyclical sending. Pulse edges with 2-byte telegrams. 8-bit linear regulator. Disable function. Break/make contact. Debounce time.

**Inputs:** 4  
**Contact voltage:** max. 10 V, clocked  
**Contact current:** max. 2 mA, pulsing  
**Cable length:** max. 50 m  
**Device width:** 2.5 modules = approx. 45 mm  
**Contents:** With bus connecting terminal and cable cover.



## Binary input REG-K/8x10



Version	Art. no.
light grey	<b>MTN644592</b>

For connecting eight conventional push-buttons or floating contacts to the KNX. Internally generates a signal voltage SELV, electrically isolated from the bus. With integrated bus coupler and plug-in screw terminals. The input voltage level is displayed at each input with a yellow LED. A green LED indicates that the device is ready for operation once the application has been loaded. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Switching, dimming or blind control via 1 or 2 inputs. Positioning values for blind control (8-bit). Pulse edges with 1-, 2-, 4-, or 8-bit telegrams. Differentiation between short/long operation. Initialisation telegram. Cyclical sending. Pulse edges with 2-byte telegrams. 8-bit linear regulator. Disable function. Break/make contact. Debounce time.

**Inputs:** 8  
**Contact voltage:** max. 10 V, clocked  
**Contact current:** max. 2 mA, pulsing  
**Cable length:** max. 50 m  
**Device width:** 4 modules = approx. 70 mm  
**Contents:** With bus connecting terminal and cable cover.

# Binary inputs



### Binary input REG-K/4x24



Version	Art. no.
light grey	<b>MTN644892</b>

For connecting four conventional devices with AC/DC 24 V outputs to the KNX.  
 With integrated bus coupler and plug-in screw terminals.  
 The input voltage level is displayed at each input with a yellow LED. A green LED indicates that the device is ready for operation once the application has been loaded.  
 For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.  
**KNX software functions:** Switching, dimming or blind control via 1 or 2 inputs. Positioning values for blind control (8-bit). Pulse edges with 1-, 2-, 4-, or 8-bit telegrams. Differentiation between short/long operation. Initialisation telegram. Cyclical sending. Pulse edges with 2-byte telegrams. 8-bit linear regulator. Disable function. Break/make contact. Debounce time.  
**Input voltage:** AC / DC 24 V  
**Inputs:** 4  
**Input current:** DC 15 mA (30 V), AC 6 mA (27 V)  
**0 signal:** ≤ 5 V  
**1 signal:** ≥ 11 V  
**Cable length:** max. 100 m  
**Device width:** 2.5 modules = approx. 45 mm  
**Accessories:** Power supply REG, 24 V DC / 0.4 A MTN693003, Power supply REG, 24 V DC / 1.25 A MTN693004, Power supply REG, AC 24 V/1 A MTN663529  
**Contents:** With bus connecting terminal and cable cover.



### Binary input REG-K/8x24



Version	Art. no.
light grey	<b>MTN644792</b>

For connecting 8 conventional devices with AC/DC 24 V outputs to KNX.  
 With integrated bus coupler and plug-in screw terminals.  
 The input voltage level is displayed at each input with a yellow LED. A green LED indicates that the device is ready for operation once the application has been loaded.  
 For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.  
**KNX software functions:** Switching, dimming or blind control via 1 or 2 inputs. Positioning values for blind control (8-bit). Pulse edges with 1-, 2-, 4-, or 8-bit telegrams. Differentiation between short/long operation. Initialisation telegram. Cyclical sending. Pulse edges with 2-byte telegrams. 8-bit linear regulator. Disable function. Break/make contact. Debounce time.  
**Input voltage:** AC/DC 24V  
**Inputs:** 8  
**Input current:** DC approx. 15 mA/AC approx. 6 mA  
**Line length:** max. 100 m  
**Device width:** 4 modules = approx. 72 mm  
**Accessories:** Power supply REG, 24 V DC / 0.4 A MTN693003, Power supply REG, 24 V DC / 1.25 A MTN693004, Power supply REG, AC 24 V/1 A MTN663529  
**Contents:** With bus connecting terminal and cable cover.

# Binary inputs



## Binary input REG-K/4x230



Version	Art. no.
light grey	<b>MTN644992</b>

For connecting four conventional devices with AC 230 V outputs to the KNX.  
 With integrated bus coupler and plug-in screw terminals.  
 The input voltage level is displayed at each input with a yellow LED. A green LED indicates that the device is ready for operation once the application has been loaded.  
 For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.  
**KNX software functions:** Switching, dimming or blind control via 1 or 2 inputs. Positioning values for blind control (8-bit). Pulse edges with 1-, 2-, 4-, or 8-bit telegrams. Differentiation between short/long operation. Initialisation telegram. Cyclical sending. Pulse edges with 2-byte telegrams. 8-bit linear regulator. Disable function. Break/make contact. Debounce time.  
**Input voltage:** AC 230 V, 50-60Hz  
**Inputs:** 4  
**Input current:** AC 12 mA  
**0 signal:**  $\leq 40$  V  
**1 signal:**  $\geq 160$  V  
**Cable length:** max. 100 m  
**Device width:** 2.5 modules = approx. 45 mm  
**Contents:** With bus connecting terminal and cable cover.



## Binary input REG-K/8x230






Version	Art. no.
light grey	<b>MTN644692</b>

For connecting eight conventional devices with AC 230 V outputs to the KNX.  
 With integrated bus coupler and plug-in screw terminals.  
 The input voltage level is displayed at each input with a yellow LED. A green LED indicates that the device is ready for operation once the application has been loaded.  
 For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.  
**KNX software functions:** Switching, dimming or blind control via 1 or 2 inputs. Positioning values for blind control (8-bit). Pulse edges with 1-, 2-, 4-, or 8-bit telegrams. Differentiation between short/long operation. Initialisation telegram. Cyclical sending. Pulse edges with 2-byte telegrams. 8-bit linear regulator. Disable function. Break/make contact. Debounce time.  
**Input voltage:** AC 230V, 50-60Hz  
**Inputs:** 8  
**Input current:** AC approx. 7 mA  
**Line length:** max. 100 m  
**Device width:** 4 modules = approx. 72 mm  
**Contents:** With bus connecting terminal and cable cover.

# KNX





## Overview presence detectors and movement detectors

	KNX ARGUS Presence Basic	KNX ARGUS Presence	KNX ARGUS Presence with light control and IR receiver	
				
<b>Article number</b>	<b>MTN6307..</b>	<b>MTN6308..</b>	<b>MTN6309..</b>	
<b>Design</b>	—	—	—	
<b>Use cases (examples)</b>	Offices, waiting rooms  Lighting, heating control	Large offices, waiting rooms, classrooms, private areas, public buildings  Lighting, blinds, heating control	Large offices, waiting rooms, classrooms, private areas, public buildings  Lighting, blinds, heating control, constant light control	
<b>Installation site</b>	Ceiling mounting, indoor	Ceiling mounting, indoor	Ceiling mounting, indoor	
<b>Protection type</b>	IP 20	IP 20	IP 20	
<b>Recommended mounting height</b>	2.5 m	2.5 m	2.5 m	
<b>Angle of detection</b>	360°	360°	360°	
<b>Range (right, left / front)</b>	7 m radius	7 m radius	7 m radius	
<b>Number of levels</b>	6	6	6	
<b>Number of zones</b>	136	136	136	
<b>Number of switching segments</b>	544	544	544	
<b>Number of movement sensors</b>	4	4	4	
<b>Light sensor</b>	10-2000 Lux	10-2000 Lux	10-2000 Lux	
<b>Staircase timer adjustable on the device</b>	—	—	—	
<b>Staircase timer adjustable in the ETS</b>	1 s - 255 h	1 s - 255 h	1 s - 255 h	
<b>Software</b>				
<b>Light regulation for a permanent desired brightness</b>	—	—	■	
<b>Number of movement/presence blocks</b>	2	5	5+1 (1 for light control)	
<b>Number of functions per block</b>	4	4	4	
<b>Functions per block</b>				
■ Output telegrams 1 bit, 1 byte, 2 byte	■	■	■	
■ Staircase timer	■	■	■	
■ Self-adjusting staircase timer	■	■	■	
■ Sensitivity adjustable	■	■	■	
■ Range adjustable	■	■	■	
■ Brightness threshold	■	■	■	
■ Locking function	■	■	■	
■ Sensitivity and range of the movement sensors sector-specifically adjustable	—	■	■	
<b>Brightness value correction</b>	—	■	■	
<b>Cyclical sending of the determined brightness value</b>	■	■	■	
<b>Cyclical sending of brightness value via 2 bytes object</b>	■	■	■	
<b>Brightness threshold adjustable via object</b>	—	■	■	
<b>Master/Slave function</b>	—	■	■	
<b>Monitoring function (cyclical sending)</b>	—	■	■	
<b>Dead time adjustable (noise reduction)</b>	—	—	—	
<b>IR receiver up to 10 channels</b>				
■ IR functions with KNX telegrams	—	—	■	
■ Configuration of brightness threshold, staircase timer and range	—	—	■	






# KNX

## Overview presence detectors and movement detectors

KNX ARGUS Presence 180/2,20 m, flush-mounted		KNX ARGUS 180/2,20 m, flush-mounted		KNX ARGUS 180, flush-mounted		KNX ARGUS 220	
							
<b>MTN6304.., MTN6306..</b>		<b>MTN6317.., MTN6327..</b>		<b>MTN6316.., MTN6326..</b>		<b>MTN6318..</b>	
System M		System M		System M		Artec, Antique, Tracent	
Large offices, waiting rooms, classrooms, private areas, public buildings		Corridors, private areas, public buildings		Corridors, private areas, public areas with limited access		Entrance areas, patios, garages, large-scale indoor areas where devices with a protection type higher IP20 are required (working rooms, wellness centres, ...)	
Lighting, blinds, heating control		Lighting, blinds, heating control		Lighting, blinds, heating control		Lighting	
Flush mounting, indoor		Flush mounting, indoor		Flush mounting, indoor		Surface mounting, outdoor, indoor	
IP 20		IP 20		IP 20		IP 55	
2.2 m oder 1.1 m (halved range)		2.2 m oder 1.1 m (halved range)		1.10 m		2.5 m	
180°		180°		180°		220°, adjustable lense	
8 m right/left, 12 m to the front		8 m right/left, 12 m to the front		8 m radius		14 m right/left, 16 m to the front	
6		6		1		7	
46		46		14		112	
—		—		—		448	
2		2		1		1	
10-2000 Lux		10-2000 Lux		10-2000 Lux		3-2000 Lux	
1 s - 8 min		1 s - 8 min		1 s - 8 min		1 s - 8 min	
1 s - 255 h		1 s - 255 h		1 s - 255 h		1 s - 255 h	
—		—		—		—	
5		5		5		5	
4		4		4		4	
■ ■ ■ ■ ■ ■ ■ ■		■ ■ ■ ■ ■ ■ ■ ■		■ ■ ■ ■ ■ ■ ■ —		■ ■ ■ ■ ■ ■ ■ —	
■		■		■		—	
■		—		—		—	
■		■		■		■	
■		—		—		—	
■		■		■		■	
■		■		■		■	
—		■		■		■	
—		—		—		—	
—		—		—		—	





# KNX

## Overview presence detectors and movement detectors

	KNX Movement detector 180		
			
<b>Article number</b>	MGU3.533.18/25	MGU5.533.18/25	MGU50.533.18/25
<b>Design</b>	Unica		
<b>Use cases (examples)</b>	Corridors, private areas, public areas with limited access  Lighting, blinds, heating control		
<b>Installation site</b>	Flush mounting, indoor		
<b>Protection type</b>	IP 20		
<b>Recommended mounting height</b>	1.10 m		
<b>Angle of detection</b>	180°		
<b>Range (right, left / front)</b>	8 m Radius		
<b>Number of levels</b>	1		
<b>Number of zones</b>	14		
<b>Number of switching segments</b>	—		
<b>Number of movement sensors</b>	1		
<b>Light sensor</b>	10-2000 Lux		
<b>Staircase timer adjustable on the device</b>	1 s - 8 min		
<b>Staircase timer adjustable in the ETS</b>	1 s - 255 h		
<b>Software</b>			
<b>Light regulation for a permanent desired brightness</b>	—		
<b>Number of movement/presence blocks</b>	5		
<b>Number of functions per block</b>	4		
<b>Functions per block</b>	<ul style="list-style-type: none"> <li>■ Output telegrams 1 bit, 1 byte, 2 byte</li> <li>■ Staircase timer</li> <li>■ Self-adjusting staircase timer</li> <li>■ Sensitivity adjustable</li> <li>■ Range adjustable</li> <li>■ Brightness treshold</li> <li>■ Locking function</li> <li>■ Sensitivity and range of the movement sensors sector-specifically adjustable</li> </ul>		
<b>Brightness value correction</b>	■		
<b>Cyclical sending of the determined brightness value</b>	—		
<b>Cyclical sending of brightness value via 2 bytes object</b>	■		
<b>Brightness threshold adjustable via object</b>	—		
<b>Master/Slave function</b>	■		
<b>Monitoring function (cyclical sending)</b>	■		
<b>Dead time adjustable (noise reduction)</b>	■		
<b>IR receiver up to 10 channels</b>			
<ul style="list-style-type: none"> <li>■ IR functions with KNX telegrams</li> <li>■ Configuration of brightness treshold, staircase timer and range</li> </ul>	—		

# KNX

## Overview presence detectors and movement detectors

KNX Movement detector 180			KNX Movement detector 180
			
<b>MGU3.533.30/12</b>	<b>MGU5.533.30/12</b>	<b>MGU50.533.30/12</b>	<b>ALB45153, ALB46153</b>
Unica Top			Altira
Corridors, private areas, public areas with limited access			Corridors, private areas, public areas with limited access
Lighting, blinds, heating control			Lighting, blinds, heating control
Flush mounting, indoor			Flush mounting, indoor
IP 20			IP 20
1.10 m			1.10 m
180°			180°
8 m Radius			8 m radius
1			1
14			14
—			—
1			1
10-2000 Lux			10-2000 Lux
1 s - 8 min			1 s - 8 min
1 s - 255 h			1 s - 255 h
—			—
5			5
4			4
■ ■ ■ ■ ■ ■ ■ ■ —			■ ■ ■ ■ ■ ■ ■ ■ —
■			■
—			—
■			■
—			—
■			■
■			■
■			■
—			—
—			—

# Movement detector

## Movement detectors



### KNX ARGUS 220



Version	Art. no.
polar white	<b>MTN632519</b>
dark brazil	<b>MTN632515</b>
aluminium	<b>MTN632569</b>

KNX movement detector for outdoors. 220° surface monitoring for large house fronts and sections of the house. With integrated bus coupler. The physical address is programmed with a magnet.

- 360° short-range zone (approx. 4 m radius).
- Large wiring compartment and plug system.
- Looping is possible.
- LED function display for fast alignment at the installation site.
- Operating elements are protected under the easily accessible cover plate.
- Flexibly adjustable sensor head.
- Possible to blank out individual lens areas.

Can be installed on walls and ceilings without additional accessories. Can be mounted on inner/outer corners and stationary pipes using a mounting bracket.

**KNX software functions:** Five movement blocks: up to four functions can be triggered per block. Telegrams: 1 bit, 1 byte, 2 bytes.

Normal operation, master, slave, safety pause, disable function. Sensitivity, brightness and staircase timer can be set using the ETS or the potentiometer. Self-adjusting staircase timer.

**Angle of detection:** 220°

**Range:** max. 16 m

**Number of levels:** 7

**Number of zones:** 112 with 448 switching segments

**Light sensor:** infinitely variable from approx. 3 - 1000 lux, ∞ lux (infinite: movement detection is independent of the position of the sensor head)

**Time:** can be set externally from 1 s to approx. 8 min. in 6 levels or via ETS from approx. 3 s to approx. 152 hours

**Sensitivity:** infinitely adjustable

**Possible settings for sensor head:**

**Wall mounting:** 9° up, 24° down, 12° left/right, ±12° axial

**Ceiling mounting:** 4° up, 29° down, 25° left/right, ±8.5° axial

**EC directives:** Low-voltage guideline 2006/95/EC and EMC directive 2004/108/EC

**Type of protection:** IP 55

**Accessories:** Mounting bracket MTN565291, Programming magnet MTN639190

**Contents:** With cover plate and segments to limit the area of detection, screws and plugs.



### Programming magnet



Version	Art. no.
	<b>MTN639190</b>

Non-contact programming of the physical address of the KNX ARGUS 220.

**In KNX, to be completed with:** KNX ARGUS 220 MTN6325..

# Movement detector

## Movement detectors System M



### KNX ARGUS 180, flush-mounted



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN631644</b>
<input type="checkbox"/> polar white, glossy	<b>MTN631619</b>
<input type="checkbox"/> active white, glossy	<b>MTN631625</b>
<input checked="" type="checkbox"/> anthracite	<b>MTN632614</b>
<input type="checkbox"/> aluminium	<b>MTN632660</b>

For System M.  
 Movement detector for indoors.  
 When a movement is detected, a data telegram defined by the programming is transmitted.  
 With integrated bus coupling unit.  
**KNX software functions:** Five movement blocks: up to four functions can be triggered per block. Telegrams: 1 bit, 1 byte, 2 bytes. Normal operation, master, slave, safety pause, disable function. Sensitivity, brightness and staircase timer can be set using the ETS or the potentiometer. Self-adjusting staircase timer.  
**Angle of detection:** 180°  
**Range:** 8 m (for mounting height of 1.1 m)  
**Number of levels:** 1  
**Number of zones:** 14  
**Sensitivity:** infinitely adjustable (ETS or potentiometer)  
**Light sensor:** infinitely adjustable from approx. 10 to 2000 Lux (ETS or potentiometer)  
**Time:** adjustable in steps from 1 s to 8 min (potentiometer) or adjustable from 1 s to 255 hours (ETS)  
**EC Directives:** Low-voltage guideline 2006/95/EC and EMC guideline 2004/108/EC  
**Contents:** With bus connecting terminal and supporting plate.

### KNX ARGUS 180/2.20 m flush-mounted



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN631744</b>
<input type="checkbox"/> polar white, glossy	<b>MTN631719</b>
<input type="checkbox"/> active white, glossy	<b>MTN631725</b>
<input checked="" type="checkbox"/> anthracite	<b>MTN632714</b>
<input type="checkbox"/> aluminium	<b>MTN632760</b>

For System M.  
 Indoor movement detector with anti-crawl protection.  
 When a movement is detected, a data telegram defined by the programming is transmitted.  
 With integrated bus coupling unit. For wall mounting in a size 60 mounting box, optimal installation at 2.2 m.  
**KNX software functions:** Five movement blocks: up to four functions can be triggered per block. Telegrams: 1 bit, 1 byte, 2 bytes. Normal operation, master, slave, safety pause, disable function. Sensitivity, brightness and staircase timer can be set using the ETS or the potentiometer. Two movement sensors: the sensitivity and range can be set separately for each sensor. Self-adjusting staircase timer.  
**Angle of detection:** 180°  
**Range:** 8 m right/left, 12 m to the front (for a mounting height of 2.20 m)  
**Mounting height:** 2.2 m or 1.1 m with half the range  
**Number of levels:** 6  
**Number of zones:** 46  
**Number of movement sensors:** 2, sector-orientated, adjustable  
**Sensitivity:** infinitely adjustable (ETS or potentiometer)  
**Light sensor:** infinitely adjustable from approx. 10 to 2000 Lux (ETS or potentiometer)  
**Time:** adjustable in steps from 1 s to 8 min (potentiometer) or adjustable from 1 s to 255 hours (ETS)  
**EC Directives:** Low-voltage guideline 2006/95/EC and EMC guideline 2004/108/EC  
**Contents:** With bus connecting terminal and supporting plate.  
 With cover segments to limit the area of detection.

## Movement detectors Artec/Tracent/Antique



### KNX ARGUS 180, flush-mounted



Version	Art. no.
<input type="checkbox"/> white, glossy	<b>MTN631844</b>
<input type="checkbox"/> polar white, glossy	<b>MTN631819</b>
<input type="checkbox"/> aluminium	<b>MTN631860</b>
<input type="checkbox"/> varnished stainless steel	<b>MTN631846</b>

For Artec, Tracent, Antique.

Movement detector for indoors.

When a movement is detected, a data telegram defined by the programming is transmitted.

With integrated bus coupling unit.

**KNX software functions:** Five movement blocks: up to four functions can be triggered per block. Telegrams: 1 bit, 1 byte, 2 bytes.

Normal operation, master, slave, safety pause, disable function. Sensitivity, brightness and staircase timer can be set using the ETS or the potentiometer. Self-adjusting staircase timer.

**Angle of detection:** 180°

**Range:** 8 m (for mounting height of 1.1 m)

**Number of levels:** 1

**Number of zones:** 14

**Sensitivity:** infinitely adjustable (ETS or potentiometer)

**Light sensor:** infinitely adjustable from approx. 10 to 2000 Lux (ETS or potentiometer)

**Time:** adjustable in steps from 1 s to 8 min (potentiometer) or adjustable from 1 s to 255 hours (ETS)

**EC Directives:** Low-voltage guideline 2006/95/EC and EMC guideline 2004/108/EC

**Contents:** With bus connecting terminal and supporting plate.

# Movement detector

## Movement detectors Altira



### KNX Movement detector 180



Version	Art. no.
<input type="checkbox"/> white	<b>ALB45153</b>
<input type="checkbox"/> aluminium	<b>ALB46153</b>

2 modules

Movement detector for indoors.

When a movement is detected, a data telegram defined by the programming is transmitted. With integrated bus coupler. The bus is connected using a bus connecting terminal.

**KNX software functions:** Five movement blocks: up to four functions can be triggered per block. Telegrams: 1 bit, 1 byte, 2 bytes.

Normal operation and surveillance operation, master, slave, safety pause, disable function. Sensitivity, brightness and staircase timer can be set using the ETS or the potentiometer. Two movement sensors: the sensitivity and range can be set separately for each sensor. Self-adjusting staircase timer.

**Angle of detection:** 180°

**Number of movement sensors:** 2, sector-orientated, adjustable (ETS)

**Recommended mounting height:** 1 m to 2,5 m

**Range:** at 2.15 m mounting height: Approx. 9 m on all sides, adjustable in 10 steps (rotary switch or ETS)

**Detection brightness:** Infinite setting from approx. 10 lux to approx.1000 lux (rotary switch) or from 10 lux to 2000 lux (ETS)

**Overshoot time:** Adjustable in 6 steps from approx. 1 s to approx. 8 min (rotary switch) or adjustable from 1 s to 255 hours (ETS)

**EC guidelines:** Low-voltage guideline 2006/95/EEC and EMC guideline 2004/108/EC

**Contents:** With bus connecting terminal.

## Movement detectors Unica



### KNX Movement detector 180



Version	Art. no.
<input type="checkbox"/> white	<b>MGU3.533.18</b>
<input type="checkbox"/> ivory	<b>MGU3.533.25</b>

2 modules

In Unica design.

Movement detector for indoors.

When a movement is detected, a data telegram defined by the programming is transmitted. With integrated bus coupler. The bus is connected using a bus connecting terminal.

**KNX software functions:** Five movement blocks: up to four functions can be triggered per block. Telegrams: 1 bit, 1 byte, 2 bytes.

Normal operation and surveillance operation, master, slave, safety pause, disable function. Sensitivity, brightness and staircase timer can be set using the ETS or the potentiometer. Two movement sensors: the sensitivity and range can be set separately for each sensor. Self-adjusting staircase timer.

**Angle of detection:** 180°

**Number of movement sensors:** 2, sector-orientated, adjustable (ETS)

**Recommended mounting height:** 1 m to 2,5 m

**Range:** at 2.15 m mounting height: Approx. 9 m on all sides, adjustable in 10 steps (rotary switch or ETS)

**Detection brightness:** Infinite setting from approx. 10 lux to approx.1000 lux (rotary switch) or from 10 lux to 2000 lux (ETS)

**Overshoot time:** Adjustable in 6 steps from approx. 1 s to approx. 8 min (rotary switch) or adjustable from 1 s to 255 hours (ETS)

**EC guidelines:** Low-voltage guideline 2006/95/EEC and EMC guideline 2004/108/EC

**Contents:** With bus connecting terminal.

# Movement detector



## KNX Movement detector 180



Version	Art. no.
<input type="checkbox"/> white	<b>MGU5.533.18</b>
<input checked="" type="checkbox"/> ivory	<b>MGU5.533.25</b>

2 modules  
 In Unica design.  
 Movement detector for indoors.  
 When a movement is detected, a data telegram defined by the programming is transmitted. With integrated bus coupler. The bus is connected using a bus connecting terminal.  
**KNX software functions:** Five movement blocks: up to four functions can be triggered per block. Telegrams: 1 bit, 1 byte, 2 bytes.  
 Normal operation and surveillance operation, master, slave, safety pause, disable function. Sensitivity, brightness and staircase timer can be set using the ETS or the potentiometer. Two movement sensors: the sensitivity and range can be set separately for each sensor. Self-adjusting staircase timer.  
**Angle of detection:** 180°  
**Number of movement sensors:** 2, sector-orientated, adjustable (ETS)  
**Recommended mounting height:** 1 m to 2,5 m  
**Range:** at 2.15 m mounting height: Approx. 9 m on all sides, adjustable in 10 steps (rotary switch or ETS)  
**Detection brightness:** Infinite setting from approx. 10 lux to approx.1000 lux (rotary switch) or from 10 lux to 2000 lux (ETS)  
**Overshoot time:** Adjustable in 6 steps from approx. 1 s to approx. 8 min (rotary switch) or adjustable from 1 s to 255 hours (ETS)  
**EC guidelines:** Low-voltage guideline 2006/95/EEC and EMC guideline 2004/108/EC  
**Contents:** With fixing frame.  
 With bus connecting terminal.



## KNX Movement detector 180



Version	Art. no.
<input type="checkbox"/> white	<b>MGU50.533.18</b>
<input checked="" type="checkbox"/> ivory	<b>MGU50.533.25</b>

2 modules  
 In Unica design.  
 Movement detector for indoors.  
 When a movement is detected, a data telegram defined by the programming is transmitted. With integrated bus coupler. The bus is connected using a bus connecting terminal.  
**KNX software functions:** Five movement blocks: up to four functions can be triggered per block. Telegrams: 1 bit, 1 byte, 2 bytes.  
 Normal operation and surveillance operation, master, slave, safety pause, disable function. Sensitivity, brightness and staircase timer can be set using the ETS or the potentiometer. Two movement sensors: the sensitivity and range can be set separately for each sensor. Self-adjusting staircase timer.  
**Angle of detection:** 180°  
**Number of movement sensors:** 2, sector-orientated, adjustable (ETS)  
**Recommended mounting height:** 1 m to 2,5 m  
**Range:** at 2.15 m mounting height: Approx. 9 m on all sides, adjustable in 10 steps (rotary switch or ETS)  
**Detection brightness:** Infinite setting from approx. 10 lux to approx.1000 lux (rotary switch) or from 10 lux to 2000 lux (ETS)  
**Overshoot time:** Adjustable in 6 steps from approx. 1 s to approx. 8 min (rotary switch) or adjustable from 1 s to 255 hours (ETS)  
**EC guidelines:** Low-voltage guideline 2006/95/EEC and EMC guideline 2004/108/EC  
**Contents:** With fixing frame and claws.  
 With bus connecting terminal.



## Movement detectors Unica Top



### KNX Movement detector 180



Version	Art. no.
■ aluminium	<b>MGU3.533.30</b>
■ graphite	<b>MGU3.533.12</b>

2 modules

In Unica Top design.

Movement detector for indoors.

When a movement is detected, a data telegram defined by the programming is transmitted.

With integrated bus coupler. The bus is connected using a bus connecting terminal.

**KNX software functions:** Five movement blocks: up to four functions can be triggered per block. Telegrams: 1 bit, 1 byte, 2 bytes.

Normal operation and surveillance operation, master, slave, safety pause, disable function.

Sensitivity, brightness and staircase timer can be set using the ETS or the potentiometer. Two movement sensors: the sensitivity and range can be set separately for each sensor. Self-adjusting staircase timer.

**Angle of detection:** 180°

**Number of movement sensors:** 2, sector-orientated, adjustable (ETS)

**Recommended mounting height:** 1 m to 2,5 m

**Range:** at 2.15 m mounting height: Approx. 9 m on all sides, adjustable in 10 steps (rotary switch or ETS)

**Detection brightness:** Infinite setting from approx. 10 lux to approx.1000 lux (rotary switch) or from 10 lux to 2000 lux (ETS)

**Overshoot time:** Adjustable in 6 steps from approx. 1 s to approx. 8 min (rotary switch) or adjustable from 1 s to 255 hours (ETS)

**EC guidelines:** Low-voltage guideline 2006/95/EEC and EMC guideline 2004/108/EC

**Contents:** With bus connecting terminal.



### KNX Movement detector 180



Version	Art. no.
■ aluminium	<b>MGU5.533.30</b>
■ graphite	<b>MGU5.533.12</b>

2 modules

In Unica Top design.

Movement detector for indoors.

When a movement is detected, a data telegram defined by the programming is transmitted.

With integrated bus coupler. The bus is connected using a bus connecting terminal.

**KNX software functions:** Five movement blocks: up to four functions can be triggered per block. Telegrams: 1 bit, 1 byte, 2 bytes.

Normal operation and surveillance operation, master, slave, safety pause, disable function.

Sensitivity, brightness and staircase timer can be set using the ETS or the potentiometer. Two movement sensors: the sensitivity and range can be set separately for each sensor. Self-adjusting staircase timer.

**Angle of detection:** 180°

**Number of movement sensors:** 2, sector-orientated, adjustable (ETS)

**Recommended mounting height:** 1 m to 2,5 m

**Range:** at 2.15 m mounting height: Approx. 9 m on all sides, adjustable in 10 steps (rotary switch or ETS)

**Detection brightness:** Infinite setting from approx. 10 lux to approx.1000 lux (rotary switch) or from 10 lux to 2000 lux (ETS)

**Overshoot time:** Adjustable in 6 steps from approx. 1 s to approx. 8 min (rotary switch) or adjustable from 1 s to 255 hours (ETS)

**EC guidelines:** Low-voltage guideline 2006/95/EEC and EMC guideline 2004/108/EC

**Contents:** With fixing frame.

With bus connecting terminal.

# Movement detector



## KNX Movement detector 180



Version	Art. no.
■ aluminium	<b>MGU50.533.30</b>
■ graphite	<b>MGU50.533.12</b>

2 modules

In Unica Top design.

Movement detector for indoors.

When a movement is detected, a data telegram defined by the programming is transmitted.

With integrated bus coupler. The bus is connected using a bus connecting terminal.

**KNX software functions:** Five movement blocks: up to four functions can be triggered per block. Telegrams: 1 bit, 1 byte, 2 bytes.

Normal operation and surveillance operation, master, slave, safety pause, disable function.

Sensitivity, brightness and staircase timer can be set using the ETS or the potentiometer. Two

movement sensors: the sensitivity and range can be set separately for each sensor. Self-adjusting staircase timer.

**Angle of detection:** 180°

**Number of movement sensors:** 2, sector-orientated, adjustable (ETS)

**Recommended mounting height:** 1 m to 2,5 m

**Range:** at 2.15 m mounting height: Approx. 9 m on all sides, adjustable in 10 steps (rotary switch or ETS)

**Detection brightness:** Infinite setting from approx. 10 lux to approx.1000 lux (rotary switch) or from 10 lux to 2000 lux (ETS)

**Overshoot time:** Adjustable in 6 steps from approx. 1 s to approx. 8 min (rotary switch) or adjustable from 1 s to 255 hours (ETS)

**EC guidelines:** Low-voltage guideline 2006/95/EEC and EMC guideline 2004/108/EC

**Contents:** With fixing frame and claws.

With bus connecting terminal.

# Movement detector

## KNX presence detector



### KNX ARGUS Presence Basic



Version	Art. no.
polar white	<b>MTN630719</b>
aluminium	<b>MTN630760</b>

Presence detection indoors.  
 If KNX ARGUS Presence detects smaller movements in the room, data telegrams are transmitted via KNX to control the lighting, blind or heating at the same time.  
 When the lighting is controlled by brightness-dependent movement detection, the device constantly monitors the brightness in the room. If sufficient natural light is at hand, the device switches the artificial light off even if a person is present. The overshoot time can be adjusted using the ETS.  
 With integrated bus coupling unit. For ceiling mounting in a size 60 mounting box, optimal installation at 2.5 m. Can also be mounted to ceilings using the surface mounting housing for ARGUS Presence.  
**KNX software functions:** Two movement/presence blocks: up to four functions can be triggered per block. Telegrams: 1 bit, 1 byte, 2 bytes.  
 Normal operation (no master/slave), safety pause, disable function. Self-adjusting staircase timer. Actual brightness value: can be specified via the internal and/or an external light sensor.  
**Angle of detection:** 360°  
**Range:** a radius of max. 7 m (at a mounting height of 2.50 m)  
**Number of levels:** 6  
**Number of zones:** 136 with 544 switching segments  
**Number of movement sensors:** 4  
**Light sensor:** internal light sensor infinitely adjustable from approx. 10 to 2000 Lux (ETS); external light sensor via KNX  
**EC Directives:** Low-voltage guideline 2006/95/EC and EMC guideline 2004/108/EC  
**Accessories:** Surface-mounted housing for ARGUS Presence MTN550619  
**Contents:** With bus connecting terminal and supporting plate.

### KNX ARGUS Presence



Version	Art. no.
aluminium	<b>MTN630860</b>
polar white	<b>MTN630819</b>

Presence detection indoors.  
 If KNX ARGUS Presence detects smaller movements in the room, data telegrams are transmitted via KNX to control the lighting, blind or heating at the same time.  
 When the lighting is controlled by brightness-dependent movement detection, the device constantly monitors the brightness in the room. If sufficient natural light is at hand, the device switches the artificial light off even if a person is present. The overshoot time can be adjusted using the ETS.  
 With integrated bus coupling unit. For ceiling mounting in a size 60 mounting box, optimal installation at 2.5 m. Can also be mounted to ceilings using the surface mounting housing for ARGUS Presence.  
**KNX software functions:** Five movement/presence blocks: up to four functions can be triggered per block. Telegrams: 1 bit, 1 byte, 2 bytes.  
 Normal operation, master, slave, monitoring, safety pause, disable function. Four movement sensors: the sensitivity and range can be set separately for each sensor. Self-adjusting staircase timer. Actual brightness value: can be detected via the internal and/or an external light sensor. Actual value correction.  
**Angle of detection:** 360°  
**Range:** a radius of max. 7 m (at a mounting height of 2.50 m)  
**Number of levels:** 6  
**Number of zones:** 136 with 544 switching segments  
**Number of movement sensors:** 4, separately adjustable  
**Light sensor:** internal light sensor infinitely adjustable from approx. 10 to 2000 Lux (ETS); external light sensor via KNX  
**EC Directives:** Low-voltage guideline 2006/95/EC and EMC guideline 2004/108/EC  
**Accessories:** Surface-mounted housing for ARGUS Presence MTN550619  
**Contents:** With bus connecting terminal and supporting plate.

# Movement detector



## KNX ARGUS Presence with light control and IR receiver



Version	Art. no.
polar white	<b>MTN630919</b>
aluminium	<b>MTN630960</b>

Presence detection indoors.

If KNX ARGUS Presence detects smaller movements in the room, data telegrams are transmitted via KNX to control the lighting, blind or heating at the same time.

When the lighting is controlled by brightness-dependent movement detection, the device constantly monitors the brightness in the room. If sufficient natural light is at hand, the device switches the artificial light off even if a person is present. The overshoot time can be adjusted using the ETS.

Light control enables the required brightness in a room to be achieved permanently. Dimming and the optional use of a second lighting group maintains a constant brightness.

Individual ARGUS Presence configurations can be changed or other KNX devices can be controlled remotely using the IR receiver.

With integrated bus coupling unit. For ceiling mounting in a size 60 mounting box, optimal installation at 2.5 m. Can also be mounted to ceilings using the surface mounting housing for ARGUS Presence.

**KNX software functions:** Five movement/presence blocks: up to four functions can be triggered per block. Telegrams: 1 bit, 1 byte, 2 bytes.

An additional light control block: brightness can be maintained constant by dimming and an additional adjustable level.

IR receiver function. IR configuration: setting the brightness threshold, staircase timer factors or range.

Normal operation, master, slave, monitoring, safety pause, disable function. Four movement sensors: the sensitivity and range can be set separately for each sensor. Self-adjusting staircase timer. Actual brightness value: can be detected via the internal and/or an external light sensor. Actual value correction.

**Angle of detection:** 360°

**Range:** a radius of max. 7 m (at a mounting height of 2.50 m)

**Number of levels:** 6

**Number of zones:** 136 with 544 switching segments

**Number of movement sensors:** 4, separately adjustable

**Light sensor:** internal light sensor infinitely adjustable from approx. 10 to 2000 Lux (ETS); external light sensor via KNX

**Number of IR channels:** 10 for controlling KNX devices, 10 for configuration

**EC Directives:** Low-voltage guideline 2006/95/EC and EMC guideline 2004/108/EC

**Accessories:** Surface-mounted housing for ARGUS Presence MTN550619

**Transmitter:** IR universal remote control MTN5761-0000

**Contents:** With bus connecting terminal and supporting plate.



## Surface-mounted housing for ARGUS Presence



Version	Art. no.
polar white	<b>MTN550619</b>

The surface-mounted housing for ARGUS Presence devices also allows them to be surface mounted.

- for surface-mounting of the LON Multi-Sensor LA-21 (art. no. 42320-104) and ILA-22 (art. no. 42320-105)

- colour: polar white (similar to RAL 9010)

**To be completed with:** ARGUS Presence MTN550590, ARGUS Presence with IR receiver and for extension unit operation MTN550591, KNX ARGUS Presence Basic MTN6307.., KNX ARGUS Presence MTN6308.., KNX ARGUS Presence with light control and IR receiver MTN6309..

# Movement detector



**KNX ARGUS Presence 180/2.20 m flush-mounted**



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN630444</b>
<input type="checkbox"/> polar white, glossy	<b>MTN630419</b>
<input type="checkbox"/> active white, glossy	<b>MTN630425</b>
<input checked="" type="checkbox"/> anthracite	<b>MTN630614</b>
<input type="checkbox"/> aluminium	<b>MTN630660</b>

For System M.

Presence detection indoors.

If KNX ARGUS Presence detects smaller movements in the room, data telegrams are transmitted via KNX to control the lighting, blind or heating at the same time.

When the lighting is controlled by brightness-dependent movement detection, the device constantly monitors the brightness in the room. If sufficient natural light is at hand, the device switches the artificial light off even if a person is present. The overshoot time can be adjusted using the ETS.

With integrated bus coupling unit. For wall mounting in a size 60 mounting box, optimal installation at 2.2 m. With anti-crawl protection.

**KNX software functions:** Five movement/presence blocks: up to four functions can be triggered per block. Telegrams: 1 bit, 1 byte, 2 bytes.

Normal operation, master, slave, monitoring, safety pause, disable function. Two movement sensors: the sensitivity and range can be set separately for each sensor. Self-adjusting staircase timer. Actual brightness value: can be detected via the internal and/or an external light sensor. Actual value correction.

**Angle of detection:** 180°

**Range:** 8 m right/left, 12 m to the front (for a mounting height of 2.20 m)

**Mounting height:** 2.2 m or 1.1 m at half the range

**Time:** adjustable in steps from 1 s to 8 min (potentiometer) or adjustable from 1 s to 255 hours (ETS)

**Number of levels:** 6

**Number of zones:** 46

**Number of movement sensors:** 2, separately adjustable

**Light sensor:** internal light sensor infinitely adjustable from approx. 10 to 2000 Lux (ETS); external light sensor via KNX

**EC Directives:** Low-voltage guideline 2006/95/EC and EMC guideline 2004/108/EC

**Contents:** With bus connecting terminal and supporting plate.

With cover segments to limit the area of detection.

## Other sensors



### KNX brightness and temperature sensor



Version	Art. no.
light grey	<b>MTN663991</b>

The sensor records brightness and temperature and transmits these values to the bus. It has a temperature sensor and a brightness sensor.

- 3 universal channels for single tasks or logic operations. Temperature and brightness threshold in any combination.
- Sun protection channel for blinds/roller shutter control. Objects for: twilight threshold, brightness threshold, drive control, automatic sun function, teaching, security.
- Automatic sun protection. Controls the blinds automatically during the day.
- Teaching object. With this, every brightness threshold can be reset by the touch of a key. Suitable for mounting on an outside wall.

With integrated bus coupler. The bus is connected using a bus connecting terminal.

**Power consumption:** max. 150 mW

**Sensors:** 2

**Temperature measurement range:** - 25 °C to + 55 °C (±5 % or ±1 degree)

**Brightness measurement range:** 1 to 100,000 lux (±20% or ±5 lux)

**Type of protection:** IP 54 according to DIN EN 60529 for vertical installation with cover

**Dimensions:** 110 x 72 x 54 mm



### KNX CO<sub>2</sub>, humidity and temperature sensor AP



Version	Art. no.
polar white	<b>MTN6005-0001</b>

The device is a combined sensor for CO<sub>2</sub>, temperature and humidity measurement (relative humidity).

It is used to monitor the air quality in meeting rooms, offices, schools/kindergartens, passive or low-energy houses and living areas without controlled ventilation.

The CO<sub>2</sub> content of the air is a verifiable indicator of the ambient air quality. The higher the CO<sub>2</sub> content, the worse the ambient air is.

**KNX software functions:** Threshold adjustment range: 500–2550 ppm. Object "Physical value": 0-9999 ppm. There are 3 independent measured value thresholds for CO<sub>2</sub> and relative humidity and a threshold for the temperature value. An action is carried out if the thresholds are not reached or if they are exceeded: Send priority. Switching, value. Each threshold has a locking object.

**Power supply:** bus voltage

**Current consumption from bus:** max. 10 mA

**Ambient temperature:** -5 °C ... +45 °C

**Measuring range, CO<sub>2</sub>:** 300 – 9999 ppm

**Measuring range, temperature:** 0 °C ... +40 °C

**Measuring range, humidity:** linear 20 % ... 100 %

**Type of protection:** IP 20 in accordance with DIN EN 60529

**Dimensions:** 74x74x31 mm

# Other sensors



## KNX Basic weather station



Version	Art. no.
polar white	<b>MTN663990</b>

The KNX Basic weather station records weather data, analyses these and can transmit them to the bus. The device has a wind sensor, precipitation sensor, temperature sensor and brightness sensor.

- Wind, brightness and temperature are each sent as a 2-byte value, rain as 1-byte. Wind can be sent either in m/s or km/h.
- 4 universal channels for single tasks or logic operations. Four logic functions per channel are possible.
- 3 sun protection channels for external blinds/roller shutter control. For example, this makes sun protection for up to three facades possible. Objects for: twilight threshold, brightness threshold, drive control, automatic sun function, teaching, security.
- Automatic sun protection. Controls the blinds automatically during the day.
- Teaching object. With this, every brightness threshold can be reset by the touch of a key.
- Integrated heating for rain sensor.

Suitable for mounting on an outside wall or with optional accessories on a corner or on a mast.

With integrated bus coupler. The bus is connected using a bus connecting terminal.

An additional AC 230 V power supply is required for the heating unit.

**Power supply:** AC 230 V

**Power consumption:** max. 10 mA with bus voltage

**Power consumption:** 10 W with heating

**Sensors:** 4

**Measuring range:** - 20 °C to + 55 °C

**Brightness range:** 1 to 100,000 lux

**Angle of detection:** 150°

**Type of protection:** IP 44 per EN 60529

**Dimensions:** 280 x 160 x 135 mm

**Accessories:** Mast and corner fastening for KNX Basic weather station MTN663992



## Mast and corner fastening for KNX Basic weather station



Version	Art. no.
	<b>MTN663992</b>

**To be completed with:** KNX Basic weather station MTN663990

## Other sensors



### Weather station REG-K/4-gang



Version	Art. no.
light grey	<b>MTN682991</b>

The weather station records and processes analogue sensor signals such as wind speed, brightness, twilight, precipitation and a DCF-77 signal. Up to four analogue sensors and the DCF-77 weather combi-sensor can be connected in any combination.

In connection with the 4-gang analogue input module, 8 analogue inputs are available, to which the connection is made using the sub-bus.

If DCF-77 weather combi-sensors are used, it is possible to access a pre-configured setting in the software.

The measured values are converted by the weather station into 1 byte / 2 byte telegrams (EIS 6/5 value). This enables bus devices (visualisation software, measured value displays) to access the control processes, generate signals or control weather-dependent processes. Programming is performed using the ETS tool for the weather station.

- Two limit values per sensor (not for rain)
- Connection of multiple wind sensors
- 14 signals can be evaluated
- Evaluation of DCF-77 time signal (date and time)
- Astro function
- Logic operation controller for application of limit-value-dependent actions (even external)
- Shading of individual façade segments
- Signal monitoring of the combi-sensors with object for the following protective measures
- Checking the wind signal for conclusiveness with object for the following protective measures
- Selective façade shading (for 4 façades) with adjustment of the basic brightness, façade alignment, angle of opening relative to the sun.
- External objects for intervention in basic brightness, angle of opening and limit values
- Alarm byte
- Continuity monitoring with report on the bus

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**Auxiliary voltage:** AC 24 V (+/-10 %)

**Analogue inputs:** 4

**Current interface:** 0 ... 20 mA, 4 ... 20 mA

**Voltage interface:** 0 ... 1 V, 0 ... 10 V

**Outputs:** DC 24 V, 100 mA

**Device width:** 4 modules = approx. 72 mm

**In KNX, to be completed with:** Power supply REG, AC 24 V/1 A MTN663529

**Accessories:** Analogue input module REG/4-gang MTN682192, Weather combi-sensor DCF-77 MTN663692, Wind sensor with 0-10 V interface MTN663591, Wind sensor with 0-10 V interface and heating MTN663592, Rain sensor MTN663595, Brightness sensor MTN663593, Twilight sensor MTN663594, Temperature sensor MTN663596

**Contents:** With bus connecting terminal and cable cover.



# Other sensors



### Weather combi-sensor DCF-77



Version	Art. no.
black	<b>MTN663692</b>

The weather combi-sensor includes a wind sensor, precipitation sensor, twilight sensor and three brightness sensors (East, South, West). With integral DCF77 receiver, antenna rotatable through 45° and integrated heater (protection against thawing and condensation). Suitable for external installation on a wall or a pole. The sensor is connected to an REG-K 4-gang weather station.

The weather data is evaluated in the weather station. The necessary power supplies are provided by the weather station with connected power supply REG.

**Power supply:** AC 24 V (+/- 15 %)

**Power consumption:** max. 600 mA (with heating)

**Sensors:** 6

**Wind speed:** 1 ... 40 m/s (≤ 0.5 m/s)

**Brightness:** 0 ... 110 klux (+/- 10 %)

**Twilight** 0 ... 250 lux

**Type of protection:** IP 65 when installed

**Temperature range:** - 40 °C ... + 60 °C (non-icing)

**Fixing method:** Mounting bracket

**Dimensions:** 130x200 mm (ØxH)

**In KNX, to be completed with:** Weather station REG-K/4-gang MTN682991



### Wind sensor with 0-10 V interface



Version	Art. no.
polar white	<b>MTN663591</b>

The wind sensor evaluates the wind speed and converts it into an analogue 0-10 V output voltage.

For external installation and connection to the weather station REG-K/4-gang or the analogue input REG-K/4-gang. These two devices provide the supply voltage necessary to operate the sensor.

**Measuring range:** 0.7 ... 40 m/s, linear

**Output:** 0 ... 10 V

**External power supply:**

**Voltage:** 24 V DC (18-32 V DC)

**Power consumption:** approx. 12 mA

**General specifications:**

**Type of protection:** IP 65

**Load:** max. 60 m/s transient

**Incoming cable:** 3 m, LiYY 6 x 0.25 mm<sup>2</sup>

**Fixing method:** Mounting bracket

**Mounting position:** vertical

**In KNX, to be completed with:** Weather station REG-K/4-gang MTN682991, Analogue input REG-K 4-gang MTN682191, Analogue input module REG/4-gang MTN682192

**Contents:** With mounting bracket.

### Wind sensor with 0-10 V interface and heating



Version	Art. no.
polar white	<b>MTN663592</b>

The wind sensor evaluates the wind speed and converts it into an analogue 0-10 V output voltage. The integrated heater can be operated via an external power supply of AC 24 V/500 mA for trouble-free operation in frosty weather.

For external installation and connection to the weather station REG-K/4-gang or the analogue input REG-K/4-gang. These two devices provide the supply voltage necessary to operate the sensor.

**Measuring range:** 0.7 ... 40 m/s, linear

**Output:** 0 ... 10 V

**External power supply:**

**Voltage:** 24 V DC (18-32 V DC)

**Power consumption:** approx. 12 mA

**Heating:** 24 V DC/AC PTC element (80° C)

**General specifications:**

**Type of protection:** IP 65

**Load:** max. 60 m/s transient

**Incoming cable:** 3 m, LiYY 6 x 0.25 mm<sup>2</sup>

**Fixing method:** Mounting bracket

**Mounting position:** vertical





**In KNX, to be completed with:** Weather station REG-K/4-gang MTN682991, Analogue input REG-K 4-gang MTN682191, Analogue input module REG/4-gang MTN682192

**Accessories:** Power supply REG, AC 24 V/1 A MTN663529

**Contents:** With mounting bracket.





# Other sensors





Rain sensor		Temperature sensor	
			
Version	Art. no.	Version	Art. no.
	<b>MTN663595</b>	light grey	<b>MTN663596</b>
<p>The rain sensor is used to record and evaluate precipitation and is intended for external mounting. A sensor evaluates the conductivity of the rainwater. The heating is controlled by a microprocessor which supplies an output signal of 0 V or 10 V. The end of the rainfall can be recorded almost immediately with the help of an in-built heater. The heater requires an additional voltage of 24 V AC or DC. For external installation and connection to the weather station REG-K/4-gang or the analogue input REG-K/4-gang. These two devices provide the supply voltage necessary to operate the sensor.</p> <p><b>Output:</b> 0 V dry, 10 V rain  <b>External power supply:</b>  <b>Voltage:</b> 24 V DC (15-30 V DC)  <b>Power consumption:</b> approx. 10 mA (without heating)  <b>Heating:</b> 24 V DC/AC max. 4.5 W  <b>General specifications:</b>  <b>Type of protection:</b> IP 65  <b>Incoming cable:</b> 3 m, UYY 5 x 0.25 mm<sup>2</sup>  <b>Fixing method:</b> Mounting bracket  <b>Mounting position:</b> approx. 45°  <b>In KNX, to be completed with:</b> Weather station REG-K/4-gang MTN682991, Analogue input REG-K 4-gang MTN682191, Analogue input module REG/4-gang MTN682192  <b>Accessories:</b> Power supply REG, AC 24 V/1 A MTN663529  <b>Contents:</b> With holder for installing the sensor on walls and masts.</p>		<p>The temperature is measured with the temperature sensor and converted into an analogue output signal of 0-10 V. For external installation and connection to the weather station REG-K/4-gang or the analogue input REG-K/4-gang. These two devices provide the supply voltage necessary to operate the sensor.</p> <p><b>Measuring range:</b> -30° C to +70° C linear  <b>Output:</b> 0 ... 10 V short-circuit-proof  <b>External power supply:</b>  <b>Voltage:</b> 24 V DC (15-30 V DC)  <b>Power consumption:</b> approx. 3 mA  <b>General specifications:</b>  <b>Incoming cable:</b> using PG7 screw fitting  <b>Recommended cable:</b> 3 x 0.25 mm<sup>2</sup>  <b>Type of protection:</b> IP 65  <b>Dimensions:</b> 58 x 35 x 64 (W x H x D)  <b>In KNX, to be completed with:</b> Weather station REG-K/4-gang MTN682991, Analogue input REG-K 4-gang MTN682191, Analogue input module REG/4-gang MTN682192</p>	

# Other sensors



Brightness sensor		Twilight sensor	
			
Version	Art. no.	Version	Art. no.
light grey	<b>MTN663593</b>	light grey	<b>MTN663594</b>
<p>The brightness sensor is required for recording and evaluating brightness. Brightness is recorded via a photoelectric diode and electronically converted into an analogue output signal of 0 V - 10 V.</p> <p>For external installation and connection to the weather station REG-K/4-gang or the analogue input REG-K/4-gang. These two devices provide the supply voltage necessary to operate the sensor.</p> <p><b>Measuring range:</b> 0 to 60,000 lux, linear  <b>Output:</b> 0 ... 10 V short-circuit-proof  <b>External power supply:</b>  <b>Voltage:</b> 24 V DC (15-30 V DC)  <b>Power consumption:</b> approx. 5 mA  <b>General specifications:</b>  <b>Incoming cable:</b> using PG7 screw fitting  <b>Recommended cable:</b> 3 x 0.25 mm<sup>2</sup>  <b>Type of protection:</b> IP 65  <b>Dimensions:</b> 58 x 35 x 64 (W x H x D)  <b>In KNX, to be completed with:</b> Weather station REG-K/4-gang MTN682991, Analogue input REG-K 4-gang MTN682191, Analogue input module REG/4-gang MTN682192</p>		<p>The twilight sensor is required to record and evaluate brightness. Brightness is recorded via a photoelectric diode and electronically converted into an analogue output signal of 0 V - 10 V.</p> <p>For external installation and connection to the weather station REG-K/4-gang or the analogue input REG-K/4-gang. These two devices provide the supply voltage necessary to operate the sensor.</p> <p><b>Measuring range:</b> 0 to 255 lux, linear  <b>Output:</b> 0 ... 10 V short-circuit-proof  <b>External power supply:</b>  <b>Voltage:</b> 24 V DC (15-30 V DC)  <b>Power consumption:</b> approx. 5 mA  <b>General specifications:</b>  <b>Incoming cable:</b> using PG7 screw fitting  <b>Recommended cable:</b> 3 x 0.25 mm<sup>2</sup>  <b>Type of protection:</b> IP 65  <b>Dimensions:</b> 58 x 35 x 64 (W x H x D)  <b>In KNX, to be completed with:</b> Weather station REG-K/4-gang MTN682991, Analogue input REG-K 4-gang MTN682191, Analogue input module REG/4-gang MTN682192</p>	



Analogue input REG-K 4-gang		Analogue input module REG/4-gang	
			
Version	Art. no.	Version	Art. no.
light grey	<b>MTN682191</b>	light grey	<b>MTN682192</b>
<p>The analogue input records and processes analogue sensor signals. Up to four analogue sensors can be connected in any combination. In connection with the analogue input module REG/4-gang, 8 analogue inputs are available, to which the connection is made using the sub-bus.</p> <p>Evaluation and limit value processing is performed in the analogue input. With continuity checking of the 4 ... 20 mA inputs.</p> <p>For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.</p> <p><b>Auxiliary voltage:</b> AC 24 V (+/-10 %)  <b>Analogue inputs:</b> 4  <b>Current interface:</b> 0 ... 20 mA, 4 ... 20 mA  <b>Voltage interface:</b> 0 ... 1 V, 0 ... 10 V  <b>Outputs:</b> DC 24 V, 100 mA  <b>Continuity checking:</b> 4 ... 20 mA  <b>Device width:</b> 4 modules = approx. 72 mm  <b>In KNX, to be completed with:</b> Power supply REG, AC 24 V/1 A MTN663529  <b>Accessories:</b> Analogue input module REG/4-gang MTN682192, Wind sensor with 0-10 V interface MTN663591, Wind sensor with 0-10 V interface and heating MTN663592, Rain sensor MTN663595, Brightness sensor MTN663593, Twilight sensor MTN663594, Temperature sensor MTN663596  <b>Contents:</b> With bus connecting terminal and cable cover.</p>		<p>Extension module to extend weather station REG-K/4-gang and analogue input REG-K/4-gang from 4 to 8 analogue outputs. Connections are made using the sub-bus. Up to four analogue sensors can be connected in any combination.</p> <p>Evaluation and limit value processing is performed in the analogue input or weather station. With continuity checking of the 4 ... 20 mA inputs.</p> <p>For installation on DIN rails TH35 according to EN 60715.</p> <p><b>Auxiliary voltage:</b> AC 24 V (+/-10 %)  <b>Rating:</b> max. 4 VA  <b>Analogue inputs:</b> 4  <b>Current interface:</b> 0 ... 20 mA, 4 ... 20 mA  <b>Voltage interface:</b> 0 ... 1 V, 0 ... 10 V (DC)  <b>A/D conversion:</b> 14 bit  <b>Outputs:</b> DC 24 V, 100 mA  <b>Continuity checking:</b> 4 ... 20 mA  <b>Device width:</b> 4 modules = approx. 72 mm  <b>In KNX, to be completed with:</b> Weather station REG-K/4-gang MTN682991, Analogue input REG-K 4-gang MTN682191, Power supply REG, AC 24 V/1 A MTN663529  <b>Accessories:</b> Wind sensor with 0-10 V interface MTN663591, Wind sensor with 0-10 V interface and heating MTN663592, Rain sensor MTN663595, Brightness sensor MTN663593, Twilight sensor MTN663594, Temperature sensor MTN663596  <b>Contents:</b> With sub-bus jumper.</p>	

## Time switch



### KNX Year Time Switch REG-K/8/800



Version	Art. no.
	<b>MTN6606-0008</b>

8-channel KNX time switch with year and astro program. Time switch with connection option for DCF and GPS antenna. To enable radio-controlled time synchronisation via DCF or GPS, the device needs to be fitted with the relevant antenna. Time and date can be issued on the bus.

The device can be programmed manually on the device itself or on the PC using software. After programming on the PC, all switching times are exported to a memory chip available as an accessory, and transmitted from this into one or more time switches.

- Comprehensive annual clock functions
- 8 channels
- 800 memory switching time locations
- 8 years power reserve (lithium battery)
- Text-oriented user interface in the display
- Display lighting (can be switched off)
- Astronomic switch function (automatic calculation of sunrise and sunset times for the whole year)
- Time synchronisation by connecting an external DCF or GPS antenna; in the case of GPS, additional positioning for astro program
- Time and date synchronisation for other bus devices
- Automatic changeover between summer and winter time
- Switch-off timer
- Holiday program
- 2 random programs
- Integrated operating hours counter
- ON/OFF switching times
- Impulse program
- Cycle program
- Switch preselection
- ON/OFF permanent switching
- PIN coding
- Interface for memory card (PC programming)
- Screwless terminals for 2 lines each

With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**Operating voltage:** Bus: DC 24 V

Mains: AC 110-240 V

**Shortest switching time:** 1 s

**Accuracy:** ≤ ±0.5s/day

**Power reserve:** 8 years

**Type of protection:** IP 20

**Device width:** 3 modules = approx. 54 mm

**In KNX, to be completed with:** DCF77 Antenna V2 MTN6606-0070, GPS Antenna MTN6606-0071

**Accessories:** IHP+ programming kit for PC CCT15860, IHP+ key CCT15861

### GPS Antenna



Version	Art. no.
	<b>MTN6606-0071</b>

Antenna for receiving the time by GPS radio signal. Connect the antenna to the year time switch.

Worldwide time synchronisation and positioning via GPS satellite signal reception. The antenna is connected using a 2-core cable (max. 100 m).

**In KNX, to be completed with:** KNX Year Time Switch REG-K/8/800 MTN6606-0008



# Other sensors



**DCF77 Antenna V2**



Version	Art. no.
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**MTN6606-0070**

Antenna for receiving the time by radio signal. Connect the antenna to the year time switch. To get the best reception, the antenna should not be installed in the cellar or the distribution system. It is connected via a separate 2-core, unshielded power line (max. 100 m), to which up to 5 year time switches can be connected. Incorrect polarity, short circuits and breaks in the antenna cable are each displayed visually.

**Type of protection:** IP 54

**In KNX, to be completed with:** KNX Year Time Switch REG-K/8/800 MTN6606-0008



**IHP+ key**



Version	Art. no.
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**CCT15861**

Memory card for saving and duplicating programs for time switches. The program created by the software is loaded to the memory chip and can then be imported to one or more time switches.

For IHP+ 1c/2c, ICAstro 1c/2c, IC100kp+ 1c/2c, IHP 1c 18 mm, IHP+ 1c 18 mm

**In KNX, to be completed with:** KNX Year Time Switch REG-K/8/800 MTN6606-0008



**IHP+ programming kit for PC**



Version	Art. no.
---------	----------

**CCT15860**

For IC Astro and IC 100kp+.

**In KNX, to be completed with:** KNX Year Time Switch REG-K/8/800 MTN6606-0008

**Accessories:** IHP+ key CCT15861

**Contents:** With adapter, memory chip, CD-ROM and 2 m USB cabel.

# Other sensors



### KNX timer REG-K



Version	Art. no.
light grey	<b>MTN677290</b>

The timer sends time and date to the bus and can be operated with or without a DCF77 antenna.

- Automatic changeover between summer and winter time (can be switched off)
- Own adjustable changeover rule
- The data can be sent periodically or on request
- Lithium cell: time stays the same in the event of loss of bus power

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**Accuracy:** 1 s/day, the application allows additional adjustment

**Reserve power:** 10 years

**Antenna line length:** max. 100 m

**Type of protection:** IP 20

**EC directives:** Low-voltage guideline 2006/95/EC and EMC directive 2004/108/EC

**Device width:** 2 modules = approx. 36 mm

**Accessories:** DCF77 antenna MTN668091



### DCF77 antenna



Version	Art. no.
light grey	<b>MTN668091</b>

Antenna for receiving the time by radio signal. The antenna should be connected to a year time switch REG-K/4/324 DCF-77.




**Type of protection:** IP 54

**In KNX, to be completed with:** KNX timer REG-K MTN677290

**Contents:** With mounting bracket.

## Other sensors



















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	Blind/switch actuator REG-K/ x/x/10 with manual mode		Switch actuator REG-K/8x230/6	Switch actuator REG-K/x230/10 with manual mode			
<b>Article number</b>	 MTN649908	MTN649912	 MTN646808	 MTN649202	MTN649204	MTN649208	MTN649212
<b>Number of switch contacts</b>	16	24	8	2	4	8	12
<b>Device width</b>	8 TE	12 TE	4 modules	2.5 modules	4 modules	4 modules	6 modules
<b>Manual mode</b> <ul style="list-style-type: none"> <li>■ Mechanical</li> <li>■ Electrical</li> <li>■ Reset by manual mode triggered actions</li> </ul>	— ■ (lockable) —	— — —	— — —	— — —	— ■ (lockable) —	— — —	— — —
<b>Connecting terminal (consumer load)</b>	Plug-in screw terminals		Plug-in screw terminals	Plug-in screw terminals			
<b>Nominal voltage, AC, 50-60 Hz</b>	AC 100-240 V		AC 230 V	AC 230 V			
<b>Nominal current</b>	10 A, $\cos\varphi = 0,6$		6 A, $\cos\varphi = 0,6$	10 A, $\cos\varphi = 1 / 10 A, \cos\varphi = 0,6$			
<b>Connection power max. at AC 230 V</b> <ul style="list-style-type: none"> <li>■ Incandescent lamps</li> <li>■ Halogen lamps</li> <li>■ Capacitive load</li> <li>■ Fluorescent lamps</li> </ul>	2000 W 1700 W 105 $\mu$ F 1800 W uncompensated, 1000 W parallel-compensated		1380 W 1380 W 105 $\mu$ F 1000 VA	2000 W 1700 W 105 $\mu$ F 1800 W uncompensated, 1000 W parallel-compensated			
<b>DC power supply</b>	not allowed		not allowed	not allowed			
<b>Software</b>							
<b>ON/OFF delay</b>	■		■	■			
<b>Staircase lighting function with/without manual OFF</b> <ul style="list-style-type: none"> <li>■ Retriggerable</li> <li>■ Fix (for all push-buttons the same time)</li> <li>■ Variable (for all push-buttons different times)</li> <li>■ Retriggerable and adding</li> <li>■ Retrigger to the higher time</li> <li>■ Prewarn</li> </ul>	■ ■ — — — ■		■ ■ — — — ■	■ ■ — — — ■			
<b>Flashing</b>	—		■	—			
<b>Make/Break contact adjustable</b>	■		■	■			
<b>Changeover contact adjustable</b>	—		■	—			
<b>Status/Status feedback</b> <ul style="list-style-type: none"> <li>■ Active</li> <li>■ Passive</li> <li>■ Manual mode: Identify and acknowledge / Reset</li> <li>■ Delayed per device / Delayed per channel</li> </ul>	■ ■ ■ / — — / ■		■ ■ — / — — / —	■ ■ ■ / — — / —			
<b>Behaviour of bus voltage failure / bus voltage recovery</b>	■ / ■		■ / ■	■ / ■			
<b>Scenes</b> <ul style="list-style-type: none"> <li>■ Sending delay</li> </ul>	5 —		8 —	5 —			
<b>Higher priority functions</b>	■ Disable function ■ Logic function or priority function		■ Disable function ■ Logic function or priority function	■ Disable function ■ Logic function or priority function			
<b>Disable function</b> <ul style="list-style-type: none"> <li>■ Behaviour of locking after bus voltage recovery</li> </ul>	■		■	■			
<b>Logic function</b> <ul style="list-style-type: none"> <li>■ Logic operation</li> <li>■ Value comparison / logic / gate function / filter / time delay</li> </ul>	■ — / — / — / — / —		■ — / — / — / — / —	■ — / — / — / — / —			
<b>Central function</b> <ul style="list-style-type: none"> <li>■ Time delay / Save changes</li> </ul>	■ — / —		■ — / —	■ — / —			
<b>Safety function</b>	—		—	—			
<b>Line monitoring (sending live signal)</b>	—		—	—			






# KNX

## Functions overview switch actuators

Switch actuator Basic REG-K/x/16 A with manual mode				Switch actuator REG-K/x230/16 with manual mode				Switch actuator REG-K/x230/16 with manual mode and current detection			
											
MTN6700-0002	MTN6700-0004	MTN6700-0008	MTN6700-0012	MTN647393	MTN647593	MTN647893	MTN648493	MTN647395	MTN647595	MTN647895	MTN648495
2	4	8	12	2	4	8	12	2	4	8	12
2.5 modules	4 modules	8 modules	12 modules	2.5 modules	4 modules	8 modules	12 modules	2.5 modules	4 modules	8 modules	12 modules
											
Screw terminals				Screw terminals				Screw terminals			
AC 100-240 V				AC 100-240 V	AC 230 V	AC 100-240 V	AC 230 V	AC 100-240 V	AC 230 V	AC 100-240 V	AC 100-240 V
16 A, $\cos\phi = 0.6$				16 A, $\cos\phi = 0.6$				16 A, $\cos\phi = 0.6$			
3600 W 2500 W 105 $\mu$ F 2000 VA				3600 W 2500 W 200 $\mu$ F 2500 VA				3600 W 2500 W 200 $\mu$ F 2500 VA			
not allowed				not allowed				Purely resistive loads allowed, DC 12-24 V, +10 %, 0,1 - 16 A			
—				■				■			
											
— (make contact)				■				■			
—				■				—			
											
— / —				— / —				■ / ■			
■ / ■				■ / ■				■ / ■			
—				8				8			
■ Logic function				■ Disable function ■ Logic function or priority function				■ Logic function ■ Disable function or priority function			
—				■				■			
											
— / — / — / — / —				— / — / — / — / —				■ / ■ / ■ / ■ / ■			
											
— / —				— / —				■ / ■			
—				—				■			
—				—				■			




# KNX

## Functions overview switch actuators

	Blind/switch actuator REG-K/ x/x/10 with manual mode		Switch actuator REG-K/8x230/6	Switch actuator REG-K/x230/10 with manual mode			
							
<b>Article number</b>	MTN649908	MTN649912	MTN646808	MTN649202	MTN649204	MTN649208	MTN649212
<b>Current detection</b>							
<ul style="list-style-type: none"> <li>■ AC/DC</li> <li>■ Display energy consumption*</li> <li>■ Several limit monitorings</li> <li>■ Switch counter</li> <li>■ Hours counter</li> <li>■ Combined counter (Switch and hour counter with limit monitoring)</li> </ul>	—	—	—	—	—	—	—
<b>Heating function</b>							
<ul style="list-style-type: none"> <li>■ Switching ON/OFF (2-point valve)</li> <li>■ Continuous (PWM)</li> <li>■ Cyclic surveillance of control value</li> <li>■ Locking in summer/winter mode</li> <li>■ Collected response „All valves closed“</li> <li>■ Current detection</li> <li>■ Valve protection cyclical / with telegram</li> <li>■ Valve protection feedback / status</li> <li>■ Behaviour when bus voltage fails / when bus voltage returns</li> </ul>	—	—	—	—	—	—	—
	— / —	— / —	— / —	— / —	— / —	— / —	— / —

# KNX

## Functions overview switch actuators

Switch actuator Basic REG-K/x/16 A with manual mode				Switch actuator REG-K/x230/16 with manual mode				Switch actuator REG-K/x230/16 with manual mode and current detection			
											
MTN6700-0002	MTN6700-0004	MTN6700-0008	MTN6700-0012	MTN647393	MTN647593	MTN647893	MTN648493	MTN647395	MTN647595	MTN647895	MTN648495
— — — — —				— — — — —				■ ■ ■ ■ ■ ■			
— — — — — — — — / — — / — — / —				— — — — — — — — / — — / — — / —				■ ■ ■ ■ ■ ■ ■ ■ ■ / ■ ■ / ■ ■ / ■			

## Switch actuators



## Switch actuator, flush-mounted/230/16



Version	Art. no.
polar white	<b>MTN629993</b>

For switching a load via a make contact. With integrated bus coupler and screw terminals. The device is connected to the bus with a bus connecting terminal. The actuator can be built into a 47 mm ceiling socket with hook or a flush-mounted switch box.

**KNX software functions:** Operation as break or make contact, delay functions for each channel, staircase lighting function with/without manual OFF function, cut-out warning for staircase lighting function, blocking and additional logic operation or priority control, scenes, status feedback function per channel, central function, comprehensive parameterisation for bus voltage failure and recovery, parameterisable download behaviour.

**Nominal voltage:** AC 100-240 V  $\pm 10\%$

**Operating voltage:** min. AC 90 V - max. AC 265 V

**Mains frequency:** 50-60 Hz  $\pm 10\%$

**Nominal current:** 16 A, ohmic load  $\cos\phi = 1$

10 A, inductive load  $\cos\phi = 0,6$

**Nominal load**

**Incandescent lamps:** AC 100 V, max. 1173 W

AC 230 V, max. 2700 W

AC 240 V, max. 2817 W

**Halogen lamps:** AC 100 V, max. 739 W

AC 230 V, max. 1700 W

AC 240 V, max. 1773 W

**Fluorescent lamps:** AC 100 V, max. 434 VA

AC 230 V, max. 1000 VA

AC 240 V, max. 1043 VA

parallel-compensated

**Capacitive load:** AC 230 V, 10 A, max. 105  $\mu\text{F}$

**Dimensions:** 51x52x29 mm (WxHxD)

**Contents:** With bus connecting terminal.

# Switch actuators



## KNX switch actuator 16 A FM with 2 inputs



Version

Art. no.

**MTN6003-0001**

1-gang switch actuator with two inputs for installation in a size 60 switch box or ceiling socket-outlet with hook. Floating contacts can be connected to the two inputs.

The first input is assigned to the actuator at the factory, enabling operation without programming.

Connection to 230 V via a flexible cable, approx. 20 cm long. The inputs and the KNX are connected via a 6-core, approx. 30 cm long, connecting cable. The connecting cable for the inputs can be extended to a max. of 5 m.

### KNX software functions: Switch actuator functions:

Operation as break contact or make contact. Selection of default position on bus voltage failure/recovery. Switch on and/or off delay. Time switch function. Switching. Status feedback. Logic operation. Disable function or priority control. Status feedback object can be inverted.

### Input function:

Free assignment of the switching, dimming, blind and valuator functions. Locking object.

Behaviour when bus voltage recovers.

Switching: two switch objects per input. Command on rising/falling edge (ON, OFF, TOGGLE, no reaction).

Dimming: Single surface and dual-surface operation. Time between dimming and switching and dim step values. Telegram repetition and send stop telegram.

Blinds: Command on rising edge (none, UP, DOWN, TOGGLE). Operation concept (Step - Move - Step or Move - Step). Time between short and long operation. Slat adjustment time.

Valuator and lightscene ext. input: Edge (push-button as make contact, push-button as break contact, switch) and value on edge. Value adjustment via long push-button action for valuator. Lightscene ext. unit with memory function.

**Nominal voltage:** AC 230 V

**Nominal current:** 16 A, ohmic load

**Switch contact:** Make contact, floating relay contact

**Nominal output**

**Incandescent lamps:** AC 230 V, max. 2500 W

**Halogen lamps:** AC 230 V, max. 2200 W

**LV halogen lamps:** max. 1000 VA, wound transformer  
max. 1000 W, electronic transformers

**Capacitive load:** AC 230 V, 10 A, max. 105 µF

**Inputs:** 2

**Temperature range:** -5 °C to 45 °C

**Type of protection:** IP 20

**Dimensions:** 53x53x28 (WxHxD)

**Note:** For installation in a double box or an electronic box (Kaiser). There must be a minimum gap of 4mm between the 230V connection and the connection for the KNX/Inputs (SELV)

# Switch actuators



## 2-gang switch actuator 6 A FM with 2 inputs



Version

Art. no.

**MTN6003-0002**

2-gang switch actuator with two inputs for installation in a size 60 switch box. Floating contacts can be connected to the two inputs.

The inputs have already been assigned to the corresponding actuators at the factory, enabling operation without programming.

Connection to 230 V via a flexible cable, approx. 20 cm long. The inputs and the KNX are connected via a 6-core, approx. 30 cm long, connecting cable. The connecting cable for the inputs can be extended to a max. of 5 m.

### KNX software functions: Switch actuator functions:

Operation as break contact or make contact. Selection of default position on bus voltage failure/recovery. Switch on and/or off delay. Time switch function. Switching. Status feedback. Logic operation. Disable function or priority control. Status feedback object can be inverted.

### Input function:

Free assignment of the switching, dimming, blind and valuator functions. Locking object.

Behaviour when bus voltage recovers.

Switching: two switch objects per input. Command on rising/falling edge (ON, OFF, TOGGLE, no reaction).

Dimming: Single surface and dual-surface operation. Time between dimming and switching and dim step values. Telegram repetition and send stop telegram.

Blinds: Command on rising edge (none, UP, DOWN, TOGGLE), Operation concept (Step - Move - Step or Move - Step). Time between short and long operation. Slat adjustment time.

Valuator and Scene ext. input: Edge (push-button as make contact, push-button as break contact, switch) and value on edge. Value adjustment via long push-button action for valuator.

Scene ext. unit with memory function.

**Nominal voltage:** AC 230 V

**Nominal current:** 6 A, ohmic load

**Switch contacts:** 2x make contacts

**Nominal output**

**Incandescent lamps:** AC 230 V, max. 1200 W

**Halogen lamps:** AC 230 V, max. 1200 W

**LV halogen lamps:** max. 500 VA, wound transformer

max. 500 W, electronic transformers

**Capacitive load:** AC 230 V, 6 A, max. 14  $\mu$ F

**Inputs:** 2

**Temperature range:** -5 °C to 45 °C

**Type of protection:** IP 20

**Dimensions:** 53x53x28 (WxHxD)

**Note:** For installation in a double box or an electronic box (Kaiser). There must be a minimum gap of 4mm between the 230V connection and the connection for the KNX/Inputs (SELV)

# Switch actuators



## Switch actuator REG-K/2x230/10 with manual mode



Version	Art. no.
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light grey	<b>MTN649202</b>
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For independent switching of up to 2 loads via make contacts. The function of the switching channels is freely configurable. All switching outlets can be operated manually using push-button operation.

Channel status display via LEDs. A green LED indicates readiness for operation.

With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Operation as break contact/make contact. Programmable behaviour for download. Delay functions for each channel. Staircase lighting function with/without manual OFF function. Cut-out warning for staircase lighting function. Scenes. Central function. Disable function. Logic operation or priority control. Status feedback function for each channel.

**Power supply:**

**Nominal voltage:** AC 230 V, 50-60 Hz

**For each switch output:**

**Nominal current:** 10 A,  $\cos\phi = 1$ ; 10 A,  $\cos\phi = 0.6$

**Incandescent lamps:** AC 230 V, max. 2000 W

**Halogen lamps:** AC 230 V, max. 1700 W

**Fluorescent lamps:** AC 230 V, max. 1800 W, uncompensated  
AC 230 V, max. 1000 W with parallel compensation

**Capacitive load:** AC 230 V, max. 105  $\mu\text{F}$

**Device width:** 2.5 modules = approx. 45 mm

**Contents:** With bus connecting terminal and cable cover.



## KNX Switch Actuator Basic REG-K/2x/16 A with manual mode



Version	Art. no.
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	<b>MTN6700-0002</b>
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For independent switching of 2 loads via make contacts. All switch outputs can be operated with manual switches. With integrated bus coupling unit.

A green LED indicates readiness for operation after the application has been loaded.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Staircase lighting function with/without manual OFF function, cut-out warning for staircase lighting function, logic operation, status feedback per channel, central function, parameterisation for bus voltage failure and recovery.

**Rated voltage (nominal voltage):** AC 100-240 V, 50-60 Hz

**Tolerance range:** min. AC 90 V - max. AC 265 V

**For each switching contact:**

**Nominal current:** 16 A, inductive load  $\cos\phi = 0,6$

**Nominal load**

**Incandescent lamps:** AC 100 V, max. 1600 W

AC 230 V, max. 3600 W

AC 240 V, max. 3840 W

**Halogen lamps:** AC 100 V, max. 1080 W

AC 230 V, max. 2500 W

AC 240 V, max. 2500 W

**Fluorescent lamps:** AC 100 V, max. 900 VA

AC 230 V, max. 2000 VA

AC 240 V, max. 2000 VA

parallel-compensated

**Capacitive load:** AC 230 V, 16 A, max. 105  $\mu\text{F}$

**Device width:** 2.5 modules = approx. 45 mm

**Contents:** With bus connecting terminal and cable cover.

# Switch actuators



## Switch actuator REG-K/2x230/16 with manual mode



Version	Art. no.
light grey	<b>MTN647393</b>

For independent switching of two loads via make contacts. With integrated bus coupler and screw terminals. The 230 V switch output can be operated with a manual switch.

A green LED indicates readiness for operation after the application has been loaded.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Operation as break or make contact, delay functions for each channel, staircase lighting function with/without manual OFF function, cut-out warning for staircase lighting function, blocking and additional logic operation or priority control, scenes, status feedback function per channel, central function, comprehensive parameterisation for bus voltage failure and recovery, parameterisable download behaviour.

**Nominal voltage:** AC 100-240 V  $\pm 10\%$

**Operating voltage:** min. AC 90 V - max. AC 265 V

**Mains frequency:** 50-60 Hz  $\pm 10\%$

**For each switching contact:**

**Nominal current:** 16 A, inductive load  $\cos\phi = 0,6$

**Nominal load**

**Incandescent lamps:** AC 100 V, max. 1600 W

AC 230 V, max. 3600 W

AC 240 V, max. 3840 W

**Halogen lamps:** AC 100 V, max. 1086 W

AC 230 V, max. 2500 W

AC 240 V, max. 2608 W

**Fluorescent lamps:** AC 100 V, max. 1086 VA

AC 230 V, max. 2500 VA

AC 240 V, max. 2608 VA

parallel-compensated

**Capacitive load:** AC 230 V, 16 A, max. 200  $\mu\text{F}$

**Device width:** 2.5 modules = approx. 45 mm

**Contents:** With bus connecting terminal and cable cover.



# Switch actuators



## Switch actuator REG-K/2x230/16 with manual mode and current detection



Version	Art. no.
light grey	<b>MTN647395</b>

For independent switching of two loads via make contacts. The actuator has integrated current detection that measures the load current on each channel. All 230 V switch outputs can be operated with manual switches. With integrated bus coupling unit.

A green LED indicates that the device is ready for operation once the application has been loaded. The load is connected with screw terminals.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Operation as break contact or make contact. Staircase lighting function with/without manual OFF function and switch-off warning. Delay functions. Scenes. Logic function. Blocking or priority control. Feedback function. Status. Central function with delay. Parameterisation for bus voltage failure and recovery. Behaviour for download.

Current detection function: Behaviour when value exceeds/falls short of the threshold value. Energy, operating and switch on counter with limit value monitoring.

Flash function.

**For alternating current (AC) per channel:**

**Nominal voltage:** AC 100-240 V  $\pm 10\%$

**Operating voltage:** min. AC 90 V - max. AC 265 V

**Mains frequency:** 50-60 Hz  $\pm 10\%$

**Nominal current:** 16 A, inductive load  $\cos\varphi = 0,6$

**Nominal load**

**Incandescent lamps:** AC 100 V, max. 1600 W

AC 230 V, max. 3600 W

AC 240 V, max. 3840 W

**Halogen lamps:** AC 100 V, max. 1086 W

AC 230 V, max. 2500 W

AC 240 V, max. 2608 W

**Fluorescent lamps:** AC 100 V, max. 1086 VA

AC 230 V, max. 2500 VA

AC 240 V, max. 2608 VA

parallel-compensated

**Capacitive load:** AC 230 V, 16 A, max. 200  $\mu\text{F}$

**Motor load:** AC 100 V, max. 434 W

AC 230 V, max. 1000 W

AC 240 V, max. 1043 W

**For direct current (DC) per channel:**

**Nominal voltage:** DC 12-24 V, 0.1-16 A

**Nominal current:** 16 A

**Current detection (load current):**

**Detection range:** 0.1 A to 16 A (sine effective value or DC)

**Sensing accuracy:**  $\pm 8\%$  of the current value at hand (sine) and  $\pm 100$  mA

**Frequency:** 50/60 Hz, for alternating current (AC)

**Description:** 100 mA

**Device width:** 2.5 modules = approx. 45 mm

**Contents:** With bus connecting terminal and cable cover.

# Switch actuators



## Switch actuator REG-K/4x230/10 with manual mode



Version	Art. no.
light grey	<b>MTN649204</b>

For independent switching of up to 4 loads via make contacts. The function of the switching channels is freely configurable. All switching outlets can be operated manually using push-button operation.

Channel status display via LEDs. A green LED indicates readiness for operation.

With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Operation as break contact/make contact. Programmable behaviour for download. Delay functions for each channel. Staircase lighting function with/without manual OFF function. Cut-out warning for staircase lighting function. Scenes. Central function. Disable function. Logic operation or priority control. Status feedback function for each channel.

**Power supply:**

**Nominal voltage:** AC 230 V, 50-60 Hz

**For each switch output:**

**Nominal current:** 10 A,  $\cos\phi = 1$ ; 10 A,  $\cos\phi = 0.6$

**Incandescent lamps:** AC 230 V, max. 2000 W

**Halogen lamps:** AC 230 V, max. 1700 W

**Fluorescent lamps:** AC 230 V, max. 1800 W, uncompensated

AC 230 V, max. 1000 W with parallel compensation

**Capacitive load:** AC 230 V, max. 105  $\mu\text{F}$

**Device width:** 4 modules = approx. 72 mm

**Contents:** With bus connecting terminal and cable cover.



## KNX Switch Actuator Basic REG-K/4x/16 A with manual mode



Version	Art. no.
	<b>MTN6700-0004</b>

For independent switching of 4 loads via make contacts. All switch outputs can be operated with manual switches. With integrated bus coupling unit.

A green LED indicates readiness for operation after the application has been loaded.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Staircase lighting function with/without manual OFF function, cut-out warning for staircase lighting function, logic operation, status feedback per channel, central function, parameterisation for bus voltage failure and recovery.

**Rated voltage (nominal voltage):** AC 100-240 V, 50-60 Hz

**Tolerance range:** min. AC 90 V - max. AC 265 V

**For each switching contact:**

**Nominal current:** 16 A, inductive load  $\cos\phi = 0,6$

**Nominal load**

**Incandescent lamps:** AC 100 V, max. 1600 W

AC 230 V, max. 3600 W

AC 240 V, max. 3840 W

**Halogen lamps:** AC 100 V, max. 1080 W

AC 230 V, max. 2500 W

AC 240 V, max. 2500 W

**Fluorescent lamps:** AC 100 V, max. 900 VA

AC 230 V, max. 2000 VA

AC 240 V, max. 2000 VA

parallel-compensated

**Capacitive load:** AC 230 V, 16 A, max. 105  $\mu\text{F}$

**Device width:** 4 modules = approx. 72 mm

**Contents:** With bus connecting terminal and cable cover.

# Switch actuators



## Switch actuator REG-K/4x230/16 with manual mode



Version

Art. no.

light grey

**MTN647593**

For independent switching of four loads via make contacts. With integrated bus coupler 2 and screw terminals. The 230 V switch output can be operated with a manual switch.

A green LED indicates readiness for operation after the application has been loaded.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Operation as break or make contact, delay functions for each channel, staircase lighting function with/without manual OFF function, cut-out warning for staircase lighting function, blocking and additional logic operation or priority control, scenes, status feedback function per channel, central function, comprehensive parameterisation for bus voltage failure and recovery, parameterisable download behaviour.

**Nominal voltage:** AC 230 V, 50-60 Hz

**For each switching contact:**

**Nominal current:** 16 A,  $\cos\varphi = 0,6$

**Incandescent lamps:** AC 230 V, max. 3600 W

**Halogen lamps:** AC 230 V, max. 2500 W

**Fluorescent lamps:** AC 230 V, max. 2500 VA

**Capacitive load:** AC 230 V, 16 A, max. 200  $\mu\text{F}$

**Device width:** 4 modules = approx. 72 mm

**Contents:** With bus connecting terminal and cable cover.

# Switch actuators



### Switch actuator REG-K/4x230/16 with manual mode and current detection



Version	Art. no.
light grey	<b>MTN647595</b>

For independent switching of four loads via make contacts. The actuator has integrated current detection that measures the load current on each channel. All 230 V switch outputs can be operated with manual switches. With integrated bus coupling unit.

A green LED indicates that the device is ready for operation once the application has been loaded. The load is connected with screw terminals.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Operation as break contact or make contact. Staircase lighting function with/without manual OFF function and switch-off warning. Delay functions. Scenes. Logic function. Blocking or priority control. Feedback function. Status. Central function with delay. Parameterisation for bus voltage failure and recovery. Behaviour for download.

Current detection function: Behaviour when value exceeds/falls short of the threshold value. Energy, operating and switch on counter with limit value monitoring.

Flash function.

**Nominal voltage:** AC 230 V, 50 - 60 Hz

**Per switching contact:**

**Nominal current:** 16 A,  $\cos\phi = 0.6$

**Incandescent lamps:** AC 230 V, max. 3600 W

**Halogen lamps:** AC 230 V, max. 2500 W

**Fluorescent lamps:** AC 230 V, max. 2500 VA, with parallel compensation

**Capacitive load:** AC 230 V, 16 A, max. 200  $\mu\text{F}$

**Motor load:** AC 230 V, max. 1000 W

**Current detection load current:**

**Detection range:** 0.1 A to 16 A (sine effective value or DC)

**Sensing accuracy:** +/- 8% of the current value at hand (sine) and +/- 100 mA

**Frequency:** 50/60 Hz

**Description:** 100 mA

**Device width:** 4 modules = approx. 72 mm

**Contents:** With bus connecting terminal and cable cover.



### Switch actuator REG-K/8x230/6



Version	Art. no.
light grey	<b>MTN646808</b>

For independent switching of eight loads via make contacts. With integrated bus coupler and plug-in screw terminals.

A green LED indicates readiness for operation after the application has been loaded.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Operation as break or make contact, delay functions for each channel, staircase lighting function with/without manual OFF function, cut-out warning for staircase lighting function, blocking and additional logic operation or priority control, scenes, status feedback function per channel, central function, comprehensive parameterisation for bus voltage failure and recovery, parameterisable download behaviour.

**Nominal voltage:** AC 230 V, 50-60 Hz

**For each switching contact:**

**Nominal current:** 6 A,  $\cos\phi = 0.6$

**Incandescent lamps:** AC 230 V, max. 1380 W

**Halogen lamps:** AC 230 V, max. 1380 W

**Fluorescent lamps:** AC 230 V, max. 1000 VA

**Capacitive load:** AC 230 V, 6 A, max. 105  $\mu\text{F}$

**Device width:** 4 modules = approx. 72 mm

**Contents:** With bus connecting terminal and cable cover.

# Switch actuators



### Switch actuator REG-K/8x230/10 with manual mode



Version	Art. no.
light grey	<b>MTN649208</b>

For independent switching of up to 8 loads via make contacts. The function of the switching channels is freely configurable. All switching outlets can be operated manually using push-button operation.

Channel status display via LEDs. A green LED indicates readiness for operation.

With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Operation as break contact/make contact. Programmable behaviour for download. Delay functions for each channel. Staircase lighting function with/without manual OFF function. Cut-out warning for staircase lighting function. Scenes. Central function. Disable function. Logic operation or priority control. Status feedback function for each channel.

**Power supply:**

**Nominal voltage:** AC 230 V, 50-60 Hz

**For each switch output:**

**Nominal current:** 10 A,  $\cos\phi = 1$ ; 10 A,  $\cos\phi = 0.6$

**Incandescent lamps:** AC 230 V, max. 2000 W

**Halogen lamps:** AC 230 V, max. 1700 W

**Fluorescent lamps:** AC 230 V, max. 1800 W, uncompensated

AC 230 V, max. 1000 W with parallel compensation

**Capacitive load:** AC 230 V, max. 105  $\mu\text{F}$

**Device width:** 4 modules = approx. 72 mm

**Contents:** With bus connecting terminal and cable cover.



### KNX Switch Actuator Basic REG-K/4x/16 A with manual mode



Version	Art. no.
	<b>MTN6700-0008</b>

For independent switching of 8 loads via make contacts. All switch outputs can be operated with manual switches. With integrated bus coupler.

A green LED indicates readiness for operation after the application has been loaded.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Staircase lighting function with/without manual OFF function, cut-out warning for staircase lighting function, logic operation, status feedback per channel, central function, parameterisation for bus voltage failure and recovery.

**Rated voltage (nominal voltage):** AC 100-240 V, 50-60 Hz

**Tolerance range:** min. AC 90 V - max. AC 265 V

**For each switching contact:**

**Nominal current:** 16 A, inductive load  $\cos\phi = 0,6$

**Nominal load**

**Incandescent lamps:** AC 100 V, max. 1600 W

AC 230 V, max. 3600 W

AC 240 V, max. 3840 W

**Halogen lamps:** AC 100 V, max. 1080 W

AC 230 V, max. 2500 W

AC 240 V, max. 2500 W

**Fluorescent lamps:** AC 100 V, max. 900 VA

AC 230 V, max. 2000 VA

AC 240 V, max. 2000 VA

parallel-compensated

**Capacitive load:** AC 230 V, 16 A, max. 105  $\mu\text{F}$

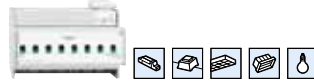
**Device width:** 8 modules = approx. 144 mm

**Contents:** With bus connecting terminal and cable cover.

# Switch actuators



## Switch actuator REG-K/8x230/16 with manual mode



Version	Art. no.
light grey	<b>MTN647893</b>

For independent switching of 8 loads via make contacts. All 230 V switch outputs can be operated with manual switches. With integrated bus coupler.

The device is connected to the mains via screw terminals; every second L connection is bridged internally. A green LED indicates readiness for operation after the application has been loaded.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Operation as break or make contact, delay functions for each channel, staircase lighting function with/without manual OFF function, cut-out warning for staircase lighting function, blocking and additional logic operation or priority control, scenes, status feedback function per channel, central function, comprehensive parameterisation for bus voltage failure and recovery, parameterisable download behaviour.

**Nominal voltage:** AC 100-240 V  $\pm 10\%$

**Operating voltage:** min. AC 90 V - max. AC 265 V

**Mains frequency:** 50-60 Hz  $\pm 10\%$

**For each switching contact:**

**Nominal current:** 16 A, inductive load  $\cos\varphi = 0,6$

**Nominal load**

**Incandescent lamps:** AC 100 V, max. 1600 W

AC 230 V, max. 3600 W

AC 240 V, max. 3840 W

**Halogen lamps:** AC 100 V, max. 1086 W

AC 230 V, max. 2500 W

AC 240 V, max. 2608 W

**Fluorescent lamps:** AC 100 V, max. 1086 VA

AC 230 V, max. 2500 VA

AC 240 V, max. 2608 VA

parallel-compensated

**Capacitive load:** AC 230 V, 16 A, max. 200  $\mu\text{F}$

**Device width:** 8 modules = approx. 144 mm

**Contents:** With bus connecting terminal and cable cover.

# Switch actuators



## Switch actuator REG-K/8x230/16 with manual mode and current detection



Version	Art. no.
light grey	<b>MTN647895</b>

For independently switching 8 loads via make contacts. The actuator has integrated current detection that measures the load current on each channel. All 230 V switch outputs can be operated with manual switches. With integrated bus coupling unit.

A green LED indicates that the device is ready for operation once the application has been loaded. The load is connected with screw terminals.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Operation as break contact or make contact. Staircase lighting function with/without manual OFF function and switch-off warning. Delay functions. Scenes. Logic function. Blocking or priority control. Feedback function. Status. Central function with delay. Parameterisation for bus voltage failure and recovery. Behaviour for download.

Current detection function: Behaviour when value exceeds/falls short of the threshold value. Energy, operating and switch on counter with limit value monitoring.

Flash function.

### For alternating current (AC) per channel:

**Nominal voltage:** AC 100-240 V  $\pm 10\%$

**Operating voltage:** min. AC 90 V - max. AC 265 V

**Mains frequency:** 50-60 Hz  $\pm 10\%$

**Nominal current:** 16 A, inductive load  $\cos\varphi = 0,6$

### Nominal load

**Incandescent lamps:** AC 100 V, max. 1600 W

AC 230 V, max. 3600 W

AC 240 V, max. 3840 W

**Halogen lamps:** AC 100 V, max. 1086 W

AC 230 V, max. 2500 W

AC 240 V, max. 2608 W

**Fluorescent lamps:** AC 100 V, max. 1086 VA

AC 230 V, max. 2500 VA

AC 240 V, max. 2608 VA

parallel-compensated

**Capacitive load:** AC 230 V, 16 A, max. 200  $\mu\text{F}$

**Motor load:** AC 100 V, max. 434 W

AC 230 V, max. 1000 W

AC 240 V, max. 1043 W

### For direct current (DC) per channel:

**Nominal voltage:** DC 12-24 V, 0.1-16 A

**Nominal current:** 16 A

### Current detection (load current):

**Detection range:** 0.1 A to 16 A (sine effective value or DC)

**Sensing accuracy:**  $\pm 8\%$  of the current value at hand (sine) and  $\pm 100$  mA

**Frequency:** 50/60 Hz, for alternating current (AC)

**Description:** 100 mA

**Device width:** 8 modules = approx. 144 mm

**Contents:** With bus connecting terminal and cable cover.

# Switch actuators



## Switch actuator REG-K/12x230/10 with manual mode



Version	Art. no.
light grey	<b>MTN649212</b>

For independent switching of up to 12 loads via make contacts. The function of the switching channels is freely configurable. All switching outlets can be operated manually using push-button operation.

Channel status display via LEDs. A green LED indicates readiness for operation.

With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Operation as break contact/make contact. Programmable behaviour for download. Delay functions for each channel. Staircase lighting function with/without manual OFF function. Cut-out warning for staircase lighting function. Scenes. Central function. Disable function. Logic operation or priority control. Status feedback function for each channel.

**Power supply:**

**Nominal voltage:** AC 230 V, 50 - 60 Hz

**External auxiliary voltage (optional):** AC 110 - 240 V, 50 - 60 Hz, max. 2 VA

**For each switch output:**

**Nominal current:** 10 A,  $\cos\phi = 1$ ; 10 A,  $\cos\phi = 0.6$

**Incandescent lamps:** AC 230 V, max. 2000 W

**Halogen lamps:** AC 230 V, max. 1700 W

**Fluorescent lamps:** AC 230 V, max. 1800 W, uncompensated

AC 230 V, max. 1000 W parallel-compensated

**Capacitive load:** AC 230 V, max. 105  $\mu\text{F}$

**Device width:** 6 modules = approx. 108 mm

**Contents:** With bus connecting terminal and cable cover.



# Switch actuators



**KNX Switch Actuator Basic REG-K/4x/16 A with manual mode**



Version	Art. no.
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**MTN6700-0012**

For independent switching of 12 loads via make contacts. All switch outputs can be operated with manual switches. With integrated bus coupler.  
 A green LED indicates readiness for operation after the application has been loaded.  
 For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.  
**KNX software functions:** Staircase lighting function with/without manual OFF function, cut-out warning for staircase lighting function, logic operation, status feedback per channel, central function, parameterisation for bus voltage failure and recovery.  
**Rated voltage (nominal voltage):** AC 100-240 V, 50-60 Hz  
**Tolerance range:** min. AC 90 V - max. AC 265 V  
**For each switching contact:**  
**Nominal current:** 16 A, inductive load  $\cos\phi = 0,6$   
**Nominal load**  
**Incandescent lamps:** AC 100 V, max. 1600 W  
 AC 230 V, max. 3600 W  
 AC 240 V, max. 3840 W  
**Halogen lamps:** AC 100 V, max. 1080 W  
 AC 230 V, max. 2500 W  
 AC 240 V, max. 2500 W  
**Fluorescent lamps:** AC 100 V, max. 900 VA  
 AC 230 V, max. 2000 VA  
 AC 240 V, max. 2000 VA  
 parallel-compensated  
**Capacitive load:** AC 230 V, 16 A, max. 105  $\mu\text{F}$   
**Device width:** 12 modules = approx. 216 mm  
**Contents:** With bus connecting terminal and cable cover.

# Switch actuators



## Switch actuator REG-K/12x230/16 with manual mode



Version	Art. no.
light grey	<b>MTN648493</b>

For independent switching of 12 loads via make contacts. All 230 V switch outputs can be operated with manual switches. With integrated bus coupler.

The device is connected to the mains via screw terminals; every second L connection is bridged internally. A green LED indicates readiness for operation after the application has been loaded.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Operation as break or make contact, delay functions for each channel, staircase lighting function with/without manual OFF function, cut-out warning for staircase lighting function, blocking and additional logic operation or priority control, scenes, status feedback function per channel, central function, comprehensive parameterisation for bus voltage failure and recovery, parameterisable download behaviour.

**Nominal voltage:** AC 230 V, 50-60 Hz

**Per switch contact:**

**Nominal current:** 16 A,  $\cos\phi = 0.6$

**Incandescent lamps:** AC 230 V, max. 3600 W

**Halogen lamps:** AC 230 V, max. 2500 W

**Fluorescent lamps:** AC 230 V, max. 2500 VA

**Capacitive load:** AC 230 V, 16 A, max. 200  $\mu\text{F}$

**Device width:** 12 modules = approx. 216 mm

**Contents:** With bus connecting terminal and cable cover.

# Switch actuators



## Switch actuator REG-K/12x230/16 with manual mode and current detection



Version	Art. no.
light grey	<b>MTN648495</b>

For independently switching 12 loads via make contacts. The actuator has integrated current detection that measures the load current on each channel. All 230 V switch outputs can be operated with manual switches. With integrated bus coupling unit.

A green LED indicates that the device is ready for operation once the application has been loaded. The load is connected with screw terminals.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Operation as break contact or make contact. Staircase lighting function with/without manual OFF function and switch-off warning. Delay functions. Scenes. Logic function. Blocking or priority control. Feedback function. Status. Central function with delay. Parameterisation for bus voltage failure and recovery. Behaviour for download.

Current detection function: Behaviour when value exceeds/falls short of the threshold value. Energy, operating and switch on counter with limit value monitoring.

Flash function.

**For alternating current (AC) per channel:**

**Nominal voltage:** AC 100-240 V  $\pm 10\%$

**Operating voltage:** min. AC 90 V - max. AC 265 V

**Mains frequency:** 50-60 Hz  $\pm 10\%$

**Nominal current:** 16 A, inductive load  $\cos\varphi = 0,6$

**Nominal load**

**Incandescent lamps:** AC 100 V, max. 1600 W

AC 230 V, max. 3600 W

AC 240 V, max. 3840 W

**Halogen lamps:** AC 100 V, max. 1086 W

AC 230 V, max. 2500 W

AC 240 V, max. 2608 W

**Fluorescent lamps:** AC 100 V, max. 1086 VA

AC 230 V, max. 2500 VA

AC 240 V, max. 2608 VA

parallel-compensated

**Capacitive load:** AC 230 V, 16 A, max. 200  $\mu\text{F}$

**Motor load:** AC 100 V, max. 434 W

AC 230 V, max. 1000 W

AC 240 V, max. 1043 W

**For direct current (DC) per channel:**

**Nominal voltage:** DC 12-24 V, 0.1-16 A

**Nominal current:** 16 A

**Current detection (load current):**

**Detection range:** 0.1 A to 16 A (sine effective value or DC)

**Sensing accuracy:**  $\pm 8\%$  of the current value at hand (sine) and  $\pm 100$  mA

**Frequency:** 50/60 Hz, for alternating current (AC)

**Description:** 100 mA




**Device width:** 12 modules = approx. 216 mm

**Contents:** With bus connecting terminal and cable cover.

# KNX




## Overview rail mounted devices

### blind actuators

	Blind actuator REG-K/4x/6	Blind actuator REG-K/4x24/6 with manual mode	Roller shutter actuator REG-K/4x/10 with manual mode	
				
<b>Article number</b>	<b>MTN646704</b>	<b>MTN648704</b>	<b>MTN649704</b>	
<b>Number of channels</b>	4	4	4	
<b>Device width</b>	4 modules	4 modules	4 modules	
<b>Manual mode push-buttons</b>	—	■	■	
<b>Connecting terminal (consumer load)</b>	Plug-in screw terminals	Plug-in screw terminals	Plug-in screw terminals	
<b>Nominal voltage, AC, 50-60 Hz</b>	AC 230 V	—	AC 100-240 V	
<b>Nominal voltage, DC</b>	—	DC 24 V, ±10 %	—	
<b>Nominal current</b>	6 A, cosφ = 0,6	6 A	10 A, cosφ = 0,6	
<b>Auxiliary power (optional)</b>	—	—	—	
<b>Software</b>				
<b>Configuration switching or blind</b>	—	—	—	
<b>Defining blind type</b>	■	■	—	
<b>Slat functionality</b>	■	■	—	
<b>Calibration (reference movement)</b>	■	■	■	
<b>Movement range limit</b>	■	■	■	
<b>Pause on reverse on change in direction</b>	■	■	■	
<b>Extended drive parameters</b>	■	■	■	
<b>Control by</b>				
■ manual mode via the push-buttons of the actuator	—	■	■	
■ automatic objects or preset objects	■	■	■	
■ manual operation via objects	■	■	■	
<b>Manual mode enable/disable when bus voltage fails</b>	—	—	—	
<b>Locking manual operation via objects</b>	■	■	■	
<b>Weather alarm functions</b>				
■ Wind alarm	3	3	3	
■ Rain alarm	1	1	1	
■ Frost alarm	1	1	1	
■ Set the order of priority	■	■	■	
■ Behaviour at start/end of the wether alarm	■	■	■	
<b>Alarm functions</b>				
■ Behavior at the start/end of the alarm	■	■	■	
<b>Set the order of priority for higher-level functions</b> (alarm, weather alarm, locking, movement range)	■	■	■	
<b>Scenes</b>	4	5	5	
<b>Disable function</b>				
■ Behavior at the start/end of the locking	■	■	■	
<b>Behaviour of bus voltage failure / bus voltage recovery / download</b>	■ / ■ / ■	■ / ■ / ■	■ / ■ / ■	
<b>Status messages</b>				
■ Hight	■	■	■	
■ Slat	■	■	—	
■ Automatic	■	■	■	
■ Drive locking or movement range limit	■	■	■	

# KNX

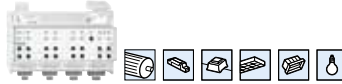
## Overview rail mounted devices blind actuators

Blind actuator REG-K/x/10 with manual mode	Blind actuator REG-K/8x/10 with manual mode	Blind/switch actuator REG-K/x/x/10 with manual mode
 <b>MTN649802</b>   <b>MTN649804</b>	 <b>MTN649808</b>	 <b>MTN649908</b>   <b>MTN649912</b>
2   4	8	8   12
4 modules	8 modules	8 modules   12 modules
■	■	■
Plug-in screw terminals	Plug-in screw terminals	Plug-in screw terminals
AC 100-240 V	AC 230 V	AC 100-240 V
—	—	—
10 A, cos $\phi$ = 0,6	10 A, cos $\phi$ = 0,6	10 A, cos $\phi$ = 0,6
—	AC 110-240 V, 50-60 Hz, max. 2 VA	AC 110-240 V, 50-60 Hz, max. 2 VA
—	—	■
■	■	■
■	■	■
■	■	■
■	■	—
■	■	■
■	■	■
■	■	■
■	■	■
■	■	■
—	■ (Precondition: auxiliary power)	■ (Precondition: auxiliary power)
■	■	—
3 1 1 ■ ■	3 1 1 ■ ■	1 1 — ■ ■
■	■	—
■	■	—
5	5	5
■	■	—
■ / ■ / ■	■ / ■ / ■	■ / ■ / ■
■ ■ ■ ■	■ ■ ■ ■	■ ■ — —

## Blind/switch actuators



## Blind/switch actuator REG-K/8x/16x/10 with manual mode



Version	Art. no.
light grey	<b>MTN649908</b>

For independent control of up to 8 blind/roller shutter drives or for switching up to 16 loads via make contacts. The function of the blind or switching channels is freely configurable. All blind/switch outputs can be operated manually using push-buttons.

The bus is connected using a bus connecting terminal; a data rail is not necessary. Channel status display via LEDs. A green LED indicates readiness for operation.

With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Blind functions: Blind type. Running time. Idle time. Step interval. Weather alarm. 8-bit positioning for height and slats. Scenes. Status and feedback function.

**Switch actuator functions:** Operation as break contact/make contact. Programmable behaviour for download. Delay functions for each channel. Staircase lighting function with/without manual OFF function. Cut-out warning for staircase lighting function. Scenes. Central function. Disable function. Logic operation or priority control. Status feedback function for each channel.

**Nominal voltage:** AC 100-240 V  $\pm 10\%$

**Operating voltage:** min. AC 90 V - max. AC 265 V

**Mains frequency:** 50-60 Hz  $\pm 10\%$

**For each blind output:**

**Nominal current:** 10 A, inductive load  $\cos\phi = 0.6$

**Motor load:** AC 100 V, max. 434 W

AC 230 V, max. 1000 W

AC 240 V, max. 1043 W

**For each switch output:**

**Nominal current:** 10 A, ohmic load  $\cos\phi = 1$

10 A, inductive load  $\cos\phi = 0.6$

**Nominal load**

**Incandescent lamps:** AC 100 V, max. 869 W

AC 230 V, max. 2000 W

AC 240 V, max. 2086 W

**Halogen lamps:** AC 100 V, max. 739 W

AC 230 V, max. 1700 W

AC 240 V, max. 1773 W

**Fluorescent lamps:** AC 100 V, max. 434 VA

AC 230 V, max. 1000 VA

AC 240 V, max. 1043 VA

parallel-compensated

**Capacitive load:** AC 230 V, 10 A, max. 105  $\mu\text{F}$

**External auxiliary voltage (optional):**

**Nominal voltage:** AC 110-240 V  $\pm 10\%$

**Operating voltage:** min. AC 92 V - max. AC 265 V

**Device width:** 8 modules = approx. 144 mm

**Note:** The blind actuator/switch actuator cannot be used in conjunction with the weather-dependent automatic functions of the weather combi-sensor/DCF77 art. no. MTN663692. If you require these functions then use the blind actuators art. no. MTN6498...

**Contents:** With bus connecting terminal and cable cover.

## Blind/switch actuators



## Blind / switch actuator REG-K/12x/24x/10 with manual mode



Version	Art. no.
light grey	<b>MTN649912</b>

For independent control of up to 12 blind/roller shutter drives or for switching up to 24 loads via make contacts. The function of the blind or switching channels is freely configurable. All blind/switch outputs can be operated manually using push-buttons.

Channel status display via LEDs. A green LED indicates readiness for operation.

With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** **Blind functions:** Blind type. Running time. Idle time. Step interval. Weather alarm. 8-bit positioning for height and slats. Scenes. Status and feedback function.

**Switch actuator functions:** Operation as break contact/make contact. Programmable behaviour for download. Delay functions for each channel. Staircase lighting function with/without manual OFF function. Cut-out warning for staircase lighting function. Scenes. Central function. Disable function. Logic operation or priority control. Status feedback function for each channel.

**Nominal voltage:** AC 100-240 V  $\pm 10\%$

**Operating voltage:** min. AC 90 V - max. AC 265 V

**Mains frequency:** 50-60 Hz  $\pm 10\%$

**For each blind output:**

**Nominal current:** 10 A, inductive load  $\cos\phi = 0.6$

**Motor load:** AC 100 V, max. 434 W

AC 230 V, max. 1000 W

AC 240 V, max. 1043 W

**For each switch output:**

**Nominal current:** 10 A, ohmic load  $\cos\phi = 1$

10 A, inductive load  $\cos\phi = 0.6$

**Nominal load**

**Incandescent lamps:** AC 100 V, max. 869 W

AC 230 V, max. 2000 W

AC 240 V, max. 2086 W

**Halogen lamps:** AC 100 V, max. 739 W

AC 230 V, max. 1700 W

AC 240 V, max. 1773 W

**Fluorescent lamps:** AC 100 V, max. 434 VA

AC 230 V, max. 1000 VA

AC 240 V, max. 1043 VA

parallel-compensated

**Capacitive load:** AC 230 V, 10 A, max. 105  $\mu\text{F}$

**External auxiliary voltage (optional):**

**Nominal voltage:** AC 110-240 V  $\pm 10\%$

**Operating voltage:** min. AC 92 V - max. AC 265 V

**Device width:** 12 modules = approx. 216 mm

**Note:** The blind actuator/switch actuator cannot be used in conjunction with the weather-dependent automatic functions of the weather combi-sensor/DCF77 art. no. MTN663692. If you require these functions then use the blind actuators art. no. MTN6498...

**Contents:** With bus connecting terminal and cable cover.

## Blind actuators



### Blind actuator REG-K/2x/10 with manual mode



Version	Art. no.
light grey	<b>MTN649802</b>

For independent control of 2 blind/roller shutter drives. The function of the blind channels is freely configurable. All blind outputs can be operated manually using push-button operation. Channel status display via LEDs. A green LED indicates readiness for operation. With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Blind functions: Blind type. Running time. Idle time. Step interval. Differentiated disable functions and weather alarms. 8-bit positioning for height and slat. Scenes. Manual/automatic mode. Differentiated status and status feedback functions.

**For each blind output:**  
**Nominal voltage:** AC 100-240 V ±10%  
**Operating voltage:** min. AC 90 V - max. AC 265 V  
**Mains frequency:** 50-60 Hz ±10%  
**Nominal current:** 10 A, inductive load  $\cos\varphi = 0.6$   
**Motor load:** AC 100 V, max. 434 W  
 AC 230 V, max. 1000 W  
 AC 240 V, max. 1043 W  
**Device width:** 4 modules = approx. 72 mm  
**Contents:** With bus connecting terminal and cable cover.



### Blind actuator REG-K/4x24/6 with manual mode



Version	Art. no.
light grey	<b>MTN648704</b>

For independent control of 4 blind/roller shutter drives. The function of the blind channels is freely configurable. All blind outputs can be operated manually using push-button operation. Channel status display via LEDs. A green LED indicates readiness for operation. With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Blind functions: Blind type. Running time. Idle time. Step interval. Differentiated disable functions and weather alarms. 8-bit positioning for height and slat. Scenes. Manual/automatic mode. Differentiated status and status feedback functions.

**For each blind output:**  
**Nominal voltage:** DC 24 V ±10 %  
**Nominal current:** 6 A  
**Load types:** 24 V direct current drives  
**Device width:** 4 modules = approx. 72 mm  
**Contents:** With bus connecting terminal and cable cover.



## Blind actuators



## Blind actuator REG-K/4x/6



Version	Art. no.
light grey	<b>MTN646704</b>

For independent control of 4 blind/roller shutter drives. With integrated bus coupler and plug-in screw terminals.

A green LED indicates readiness for operation after the application has been loaded.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Blind functions: Blind type. Running time. Idle time. Step interval. Weather alarms. 8-bit positioning for height and slats. Scenes. Automatic function. Differentiated status and feedback functions.

**For each blind output:**

**Nominal voltage:** AC 230 V, 50-60 Hz

**Nominal current:** 6 A,  $\cos\phi = 0.6$

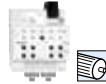
**Motor load:** AC 230 V, max. 1000 W

**Device width:** 4 modules = approx. 72 mm

**Contents:** With bus connecting terminal and cable cover.



## Roller shutter actuator REG-K/4x/10 with manual mode



Version	Art. no.
light grey	<b>MTN649704</b>

For independent control of 4 roller shutter drives. The function of the roller shutter channels is freely configurable. All roller shutter outputs can be operated manually using push-button operation.

Channel status display via LEDs. A green LED indicates readiness for operation.

With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Roller shutter functions: Running time. Idle time. Differentiated disable functions and weather alarms. 8-bit positioning for height. Scenes. Manual/automatic function. Differentiated status and status feedback functions.

**For each roller shutter output:**

**Nominal voltage:** AC 100-240 V  $\pm 10\%$

**Operating voltage:** min. AC 90 V - max. AC 265 V

**Mains frequency:** 50-60 Hz  $\pm 10\%$

**Nominal current:** 10 A, inductive load  $\cos\phi = 0.6$

**Motor load:** AC 100 V, max. 434 W

AC 230 V, max. 1000 W

AC 240 V, max. 1043 W

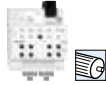
**Device width:** 4 modules = approx. 72 mm

**Contents:** With bus connecting terminal and cable cover.

# Blind actuators



**Blind actuator REG-K/4x/10 with manual mode**



Version	Art. no.
light grey	<b>MTN649804</b>

For independent control of 4 blind/roller shutter drives. The functions of the blind channels is freely configurable. All blind outputs can be operated manually using push-button operation. Channel status display via LEDs. A green LED indicates readiness for operation. With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Blind type. Running time. Idle time. Step interval. Differentiated disable functions and weather alarms. 8-bit positioning for height and slat. Scenes. Manual/automatic mode. Differentiated status and status feedback functions.

**For each blind output:**  
**Nominal voltage:** AC 100-240 V ±10%  
**Operating voltage:** min. AC 90 V - max. AC 265 V  
**Mains frequency:** 50-60 Hz ±10%  
**Nominal current:** 10 A, inductive load  $\cos\phi = 0.6$   
**Motor load:** AC 100 V, max. 434 W  
 AC 230 V, max. 1000 W  
 AC 240 V, max. 1043 W  
**Device width:** 4 modules = approx. 72 mm  
**Contents:** With bus connecting terminal and cable cover.



**Blind actuator REG-K/8x/10 with manual mode**



Version	Art. no.
light grey	<b>MTN649808</b>

For independent control of 8 blind/roller shutter drives. The functions of the blind channels is freely configurable. All blind outputs can be operated manually using push-buttons. Channel status display via LEDs. A green LED indicates readiness for operation. With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Blind type. Running time. Idle time. Step interval. Differentiated disable functions and weather alarms. 8-bit positioning for height and slat. Scenes. Manual/automatic mode. Differentiated status and status feedback functions.

**For each blind output:**  
**Nominal voltage:** AC 230 V, 50 - 60 Hz  
**Nominal current:** 10 A,  $\cos\phi = 0.6$   
**Motor load:** AC 230 V, max. 1000 W  
**External auxiliary voltage (optional):** AC 110-240 V, 50-60 Hz, max. 2 VA  
**Device width:** 8 modules = approx. 144 mm  
**Contents:** With bus connecting terminal and cable cover.

## Blind actuators



## KNX blind actuator FM with 3 inputs



Version

Art. no.

MTN6003-0004

1-gang blind actuator with three inputs for installation in a size 60 switch box. Floating contacts can be connected to the three inputs.

The inputs have already been assigned to the actuator at the factory, enabling operation without programming.

Connection to 230 V via a flexible cable, approx. 20 cm long. The inputs and the KNX are connected via a 6-core, approx. 30 cm long, connecting cable. The connecting cable for the inputs can be extended to a max. of 5 m.

**KNX software functions: Blind actuator function:**

Operation mode: Blinds, roller shutters, awnings or ventilation flaps. Raising or lowering times with extension for the upper limit position. Status feedback of the position or of the slat position. Active/passive status feedback, cycl. status feedback function. Up to 5 safety functions (3 wind alarms, 1 rain alarm, 1 frost alarm). Cycl. monitoring. Sun protection function with fixed and variable positions. Shading controls with heating/cooling automatic mode and presence function. Behaviour when bus voltage fails/recovers. Status feedback delay after bus voltage recovery. Priority function. 8 Scene function. Memory function for scenes.

**Input function:**

Free assignment of the switching, dimming, blind and valuator functions. Locking object.

Behaviour when bus voltage recovers.

Switching: two switch objects per input. Command on rising/falling edge (ON, OFF, TOGGLE, no reaction).

Dimming: Single surface and dual-surface operation. Time between dimming and switching and dim step values. Telegram repetition and send stop telegram.

Blinds: Command on rising edge (none, UP, DOWN, TOGGLE), Operation concept (Step - Move - Step or Move - Step). Time between short and long operation. Slat adjustment time.

Valuator and Scene ext. input: Edge (push-button as make contact, push-button as break contact, switch) and value on edge. Value adjustment via long push-button action for valuator.

Scene ext. unit with memory function.

**Nominal voltage:** AC 230 V, 50/60 Hz

**Switching current:** 3 A, AC1

**Nominal output**

**Motor:** AC 230 V, 600 VA

**Inputs:** 3

**Temperature range:** -5 °C to 45 °C

**Type of protection:** IP 20

**Dimensions:** 53x53x28 (WxHxD)

**Note:** For installation in a double box or an electronic box (Kaiser). There must be a minimum gap of 4mm between the 230V connection and the connection for the KNX/Inputs (SELV)

# Blind actuators



## KNX blind and heating actuator with 3 inputs



Version

Art. no.

**MTN6003-0006**

1-gang blind actuator and 1-gang heating actuator with three inputs for installation in a size 60 switch box. Floating contacts can be connected to the inputs.

The inputs have already been assigned to the actuator at the factory, enabling operation without programming.

Connection to 230 V via a flexible cable, approx. 20 cm long. The inputs and the KNX are connected via a 6-core, approx. 30 cm long, connecting cable. The connecting cable for the inputs can be extended to a max. of 5 m.

### KNX software functions: Blind actuator function:

Operation mode: Blinds, roller shutters, awnings or ventilation flaps. Raising or lowering times with extension for the upper limit position. Status feedback of the position or of the slat position. Active/passive status feedback, cycl. status feedback function. Up to 5 safety functions (3 wind alarms, 1 rain alarm, 1 frost alarm). Cycl. monitoring. Sun protection function with fixed and variable positions. Shading controls with heating/cooling automatic mode and presence function. Behaviour when bus voltage fails/recovers. Status feedback delay after bus voltage recovery. Priority function. 8 Scene function. Memory function for scenes.

### Heating actuator function:

Can be controlled by a control value (1 bit or 1 byte). Status indication (1 bit or 1 byte). Valve control (de-energised open/closed). Summer or winter mode can be selected. Cyclical monitoring of control value. Emergency mode and alarm signal. Priority control (forced setting for summer and winter mode with different values). Behaviour when bus voltage recovers and fails. Overload or short circuit signal. Control of the valve drives (switching or via PWM). Function to protect valves from sticking.

### Input function:

Free assignment of the switching, dimming, blind and valuator functions. Locking object.

Behaviour when bus voltage recovers.

Switching: two switch objects per input. Command on rising/falling edge (ON, OFF, TOGGLE, no reaction).

Dimming: Single surface and dual-surface operation. Time between dimming and switching and dim step values. Telegram repetition and send stop telegram.

Blinds: Command on rising edge (none, UP, DOWN, TOGGLE), Operation concept (Step - Move - Step or Move - Step). Time between short and long operation. Slat adjustment time.

Valuator and Scene ext. input: Edge (push-button as make contact, push-button as break contact, switch) and value on edge. Value adjustment via long push-button action for valuator. Scene ext. unit with memory function.

**Nominal voltage:** AC 230 V, 50/60 Hz

### Blind output

**Switching current:** 3 A, AC1

### Nominal output

**Motor:** AC 230 V, 600 VA

### Heating output

**Switch contact:** Triac

**Nominal current:** 5 to 25 mA, max. 2 valve drives

**Inputs:** 3

**Temperature range:** -5 °C to 45 °C




**Type of protection:** IP 20

**Dimensions:** 53x53x28 (WxHxD)

**Note:** For installation in a double box or an electronic box (Kaiser). There must be a minimum gap of 4mm between the 230V connection and the connection for the KNX/Inputs (SELV)








# Functions overview dimming actuators

	KNX univers. dimming actuator LL REG-K/2x230/300 W	KNX univers. dimming actuator LL REG-K/4x230/250 W	Universal dimming actuator REG-K/4x230/150 W	
				
<b>Article number</b>	<b>MTN6710-0002</b>	<b>MTN6710-0004</b>	<b>MTN649315</b>	
<b>Number of channels</b>	2	4	4	
<b>Device width</b>	4 modules	8 modules	6 modules	
<b>Manual operation push-buttons</b>	■	■	■	
<b>Connecting terminal (consumer load)</b>	Plug-in screw terminals	Plug-in screw terminals	Plug-in screw terminals	
<b>Nominal voltage</b>	AC 220-230 V, 50/60 Hz	AC 220-230 V, 50/60 Hz	AC 220-230 V, 50/60 Hz	
<b>Nominal power at 230 V</b>				
■ Configuration of 4 channels	—	4 x 250 W/VA	4 x 150 W/VA	
■ Configuration of 3 channels	—	1 x 420 W/VA, 2 x 250 W/VA	1x300 W/VA, 2x150 W/VA	
■ Configuration of 2 channels	2x300 W/VA	2x420 W/VA	2x300 W/VA	
■ Configuration of 1 channel	1x420 W/VA	1x420 W/VA	1x300 W/VA	
<b>Minimum resistive load</b>	4 W	4 W	25 W	
<b>Minimum resistive-inductive load</b>	25 VA	25 VA	50 VA	
<b>Minimum resistive-capacitive load</b>	4 W	4 W	50 VA	
<b>Automatic load detection / leading edge (RL-LED, ESL, CFL)</b>	■ / ■	■ / ■	■ / —	
<b>Connection of different Phases</b>	■	■	—	
<b>Relay for load separation</b>	■	■	—	
<b>Input for extension unit operation, lockable (switching, staircase lighting function)</b>	—	—	AC 230 V, 50/60 Hz, for mechanical push-buttons	
<b>Software</b>				
<b>Manual operation enable/disable via bus</b>	■	■	■	
<b>Dimming function</b>				
■ Minimum dimming value / Maximum dimming value	■ / ■	■ / ■	■ / ■	
■ Starting behaviour / Memory function / 50% brightness (ESL/CFL)	■ / ■ / ■	■ / ■ / ■	■ / ■ / —	
■ Dimming object switches channel	■	■	■	
■ Value object switches channel	■	■	■	
■ Same dimming time at central function and scenes	■	■	■	
■ Delay times for ON and OFF	■	■	■	
■ Base dimming curve with 3 thresholds	■	■	■	
■ Dimming time reduction via object	■	■	■	
■ 4 preconfigured dimming sets for the dimming time reduction*	■	■	■	
<b>Staircase lighting function with/without manual OFF</b>	■	■	■	
■ Retriggerable	■	■	■	
■ Not retriggerable	■	■	■	
■ Time addable	■	■	■	
■ Prewarn	■	■	■	
<b>Scenes (1 byte)</b>	8	8	8	
<b>Central function</b>	■	■	■	
<b>Higher priority function</b>	■ Disable function ■ Logic operation or priority function	■ Disable function ■ Logic operation or priority function	■ Disable function ■ Logic operation or priority function	
<b>Logic operation</b>				
■ AND, OR	■	■	■	
■ Switch object has an inverted impact to the logic operation	■	■	■	
<b>Disable function</b>				
■ Behaviour of locking after bus voltage recovery	■	■	■	
■ Behavior at the start/end of the locking	■	■	■	
<b>Behaviour of main voltage recovery / bus voltage recovery / download / bus voltage failure</b>	■ / ■ / ■ / —	■ / ■ / ■ / —	— / ■ / ■ / —	
<b>Status messages</b>				
■ Switch	■	■	■	
■ Brightness value	■	■	■	
■ Error	■	■	■	

4 switchable speed sets with 6 values. This corresponds to 24 storable dimming speeds for: Switch on, switch off staircase timer, dim, values, scenes, higher priority functions.

# Functions overview dimming actuators

Universal dimming actuator REG-K/4x230/250 W	Universal dimming actuator REG-K/2x230/300 W	Universal dimming actuator REG-K/230/500 W	Universal dimming actuator REG-K/230/1000 W	Dimming actuator REG-K/2x230/300 W
 <b>MTN649325</b>	 <b>MTN649330</b>	 <b>MTN649350</b>	 <b>MTN649310</b>	 <b>MTN646630</b>
4	2	1	1	2
8 modules	4 modules	4 modules	4 modules	6 modules
■	■	■	■	—
Plug-in screw terminals	Plug-in screw terminals	Plug-in screw terminals	Plug-in screw terminals	Plug-in screw terminals
AC 220-230 V, 50/60 Hz	AC 220-230 V, 50/60 Hz	AC 220-230 V, 50/60 Hz	AC 110-230 V, 50/60 Hz; 0.22-4.3 A 110 V, 50 Hz: 24-480 VA 230V, 50 Hz: 50-1000 VA 110 V, 60 Hz: 24-400 VA 230V, 60 Hz: 50-850 VA	AC 230 V, 50 Hz
4 x 250 W/VA 1 x 500 W/VA, 2 x 250 W/VA 2x500 W/VA 1x500 W/VA	— — 2x300 W/VA 1x500 W/VA	— — — 1x500 W/VA	— — — 1x1000 W/VA	— — 2x300 W/VA —
25 W	25 W	25 W	25 W	25 W
50 VA	50 VA	50 VA	50 VA	25 VA
50 VA	50 VA	50 VA	50 VA	—
■ / —	■ / —	■ / —	■ / —	—
■	—	—	—	—
—	—	—	—	—
—	AC 230 V, 50/60 Hz, for mechanical push-buttons	AC 230 V, 50/60 Hz, for mechanical push-buttons	AC 110-230 V, 50/60 Hz, for mechanical push-buttons	—
■	■	■	■	—
■ / ■ ■ / ■ / — ■ ■ ■ ■ ■ ■ ■	■ / ■ ■ / ■ / — ■ ■ ■ ■ ■ ■ ■	■ / ■ ■ / ■ / — ■ ■ ■ ■ ■ ■ ■	■ / ■ ■ / ■ / — ■ ■ ■ ■ ■ ■ ■	■ / — ■ / — / — Only OFF — — — 1 Threshold at 50 % — —
■ ■ ■ ■	■ ■ ■ ■	■ ■ ■ ■	■ ■ ■ ■	— — — —
8	8	8	8	—
■	■	■	■	—
■ Disable function ■ Logic operation or priority function	■ Disable function ■ Logic operation or priority function	■ Disable function ■ Logic operation or priority function	■ Disable function ■ Logic operation or priority function	—
■ ■	■ ■	■ ■	■ ■	— —
■ ■	■ ■	■ ■	■ ■	— —
— / ■ / ■ / —	— / ■ / ■ / —	— / ■ / ■ / —	— / ■ / ■ / —	— / ■ / — / ■
■ ■ ■	■ ■ ■	■ ■ ■	■ ■ ■	■ — —

## Dimming actuators



### KNX universal dimming actuator LL REG-K/2x230/300 W



Version	Art. no.	
light grey	<b>MTN6710-0002</b>	<b>New</b>

LED/ESL/CFL dimmer

For switching and dimming **dimmable LED lamps**, incandescent lamps, HV halogen lamps, LV halogen lamps using dimmable wound transformers or electronic transformers or dimmable compact fluorescent lamps.

**(leading and trailing-edge phases)**

With integral bus coupler, screw terminals, short-circuit, open circuit and excess temperature protection with soft start lamp start.

Different phases can be connected.

The dimmer actuator automatically recognises the connected load. This happens in the background when switching on. Combinations of ohmic and inductive, or ohmic and capacitive loads can also be connected. Combinations of inductive and capacitive loads must not be connected. No flickering of LEDs in switched-off state.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal.

**KNX software functions:** Dimming operation by KNX, dimming and emergency operation by manual switch, enable/block manual mode by bus, automatic dimming operating mode or leading edge phase for certain LED/ESL/CFL lamps, load separation possible in OFF state, various dimming curves and dimming rates, same dimming time, minimum/maximum dimming value, starting behaviour, memory function, 50% brightness when starting ESL/CFL lamp, dimming/value object switches channel, ON/OFF delay, staircase lighting function (with/without manual OFF function, non-/retriggerable, time accumulating, warning function), scenes (up to 8 internally stored brightness values can be retrieved), central function, logic operations (AND/OR) or priority control, disable function (behaviour of locking), status feedback (switching state, brightness value, fault), behaviour on mains voltage recovery/bus voltage recovery/download.

**Nominal voltage:** AC 220 - 230 V, 50/60 Hz

**Channels:** 2 (different phases possible)

**Nominal power:** 2 x 300 W/VA

1 channel: 1 x 420 W/VA

**Minimum load/channel:** 4 W (ohmic)

4 W (ohmic-capacitive)

25 VA (ohmic-inductive)

**Device width:** 4 HP = approx. 72 mm

**Note:** Information about the "Dimming LED lamps" can be obtained on the Internet at "Schneider-Electric dimmer test". <http://schneider-electric.dimmer-test.com>

**Contents:** With bus connecting terminal and cable cover.



# Dimming actuators/control units



**KNX universal dimming actuator LL REG-K/4x230/250 W**



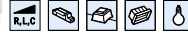
Version	Art. no.	
light grey	<b>MTN6710-0004</b>	<b>New</b>

LED/ESL/CFL dimmer  
 For switching and dimming **dimnable LED lamps**, incandescent lamps, HV halogen lamps, LV halogen lamps using dimmable wound transformers or electronic transformers or dimmable compact fluorescent lamps.  
**(leading and trailing-edge phases)**  
 With integral bus coupler, screw terminals, short-circuit, open circuit and excess temperature protection with soft start lamp start.  
 Different phases can be connected.  
 The dimmer actuator automatically recognises the connected load. This happens in the background when switching on. Combinations of ohmic and inductive, or ohmic and capacitive loads can also be connected. Combinations of inductive and capacitive loads must not be connected. No flickering of LEDs in switched-off state.  
 For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal.  
**KNX software functions:** Dimming operation by KNX, dimming and emergency operation by manual switch, enable/block manual mode by bus, automatic dimming operating mode or leading edge phase for certain LED/ESL/CFL lamps, load separation possible in OFF state, various dimming curves and dimming rates, same dimming time, minimum/maximum dimming value, starting behaviour, memory function, 50% brightness when starting ESL/CFL lamp, dimming/value object switches channel, ON/OFF delay, staircase lighting function (with/without manual OFF function, non-/retriggerable, time accumulating, warning function), scenes (up to 8 internally stored brightness values can be retrieved), central function, logic operations (AND/OR) or priority control, disable function (behaviour of locking), status feedback (switching state, brightness value, fault), behaviour on mains voltage recovery/bus voltage recovery/download.  
**Nominal voltage:** AC 220 - 230 V, 50/60 Hz  
**Channels:** 4 (different phases possible)  
**Nominal power:** 4 x 250 W/VA  
 3 channels: 1 x 420 W/VA and 2 x 250 W/VA  
 2 channels: 2 x 420 W/VA  
**Minimum load/channel:** 4 W (ohmic)  
 4 W (ohmic-capacitive)  
 25 VA (ohmic-inductive)  
**Device width:** 8 HP = approx. 144 mm  
**Note:** Information about the "Dimming LED lamps" can be obtained on the Internet at "Schneider-Electric dimmer test". <http://schneider-electric.dimmer-test.com>  
**Contents:** With bus connecting terminal and cable cover.

# Dimming actuators/control units



### Universal dimming actuator REG-K/4x230/150 W



Version	Art. no.
light grey	<b>MTN649315</b>

AC 230 V, 50-60 Hz

For switching and dimming incandescent lamps, HV halogen lamps and LV halogen lamps using dimmable wound transformers or electronic transformers.

**(Phase control and phase alignment)**

With integral bus coupler, screw terminals, short-circuit, open-circuit and excess temperature protection with soft start function.

The dimming actuator automatically recognises the connected load. Combinations of ohmic and inductive, or ohmic and capacitive loads can also be connected. Combinations of inductive and capacitive loads must not be connected.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Dimming operation via KNX, extension units and on the device, different dimming curves and dimming speeds, the same dimming time, memory function, ON/OFF delay, staircase time function with/without manual OFF function, scenes (up to eight stored brightness values can be retrieved), central function, logic operation or priority control, blocking function, status feedback.

**Nominal voltage:** AC 220 - 230 V, 50/60 Hz

**Nominal power/channel:** max. 150 W/VA

25 W minimum load (ohmic)

50 VA minimum load (ohmic/inductive/capacitive)

**Input (extension unit operation):** AC 230 V, 50/60 Hz (same phase as the dimming channels)

**Device width:** 6 modules = approx. 105 mm

**Extension unit operation:** Extension TELE insert MTN573998

**Contents:** With bus connecting terminal and cable cover.



### Universal dimming actuator REG-K/4x230/250 W



Version	Art. no.
light grey	<b>MTN649325</b> <span style="color: red;">Discontinued</span>

AC 230 V, 50-60 Hz

For switching and dimming incandescent lamps, HV halogen lamps and LV halogen lamps using dimmable wound transformers or electronic transformers (Automatic load detection).

**(Phase control and phase alignment)**

The connection of different outer conductors is allowed.

With integral bus coupler, screw terminals, short-circuit, open-circuit and excess temperature protection with soft start function. For installation onto DIN rails EN 50022.

The dimming actuator automatically recognises the connected load. Combinations of ohmic and inductive, or ohmic and capacitive loads can also be connected. Combinations of inductive and capacitive loads must not be connected.

Bus connection is via bus terminals; a data rail is not necessary.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Dimming operation via KNX, Dimming operation on the device, different dimming curves and dimming speeds, the same dimming time, memory function, ON/OFF delay, staircase time function with/without manual OFF function, scenes (up to eight stored brightness values can be retrieved), central function, logic operation or priority control, blocking function, status feedback.

**Nominal voltage:** AC 220 - 230 V, 50/60 Hz

**Channels:** 4 (different phases possible)

**Nominal power:** 4 x 250 W/VA

3 channels: 1 x 500 W/VA and 2 x 250 W/VA

2 channels: 2 x 500 W/VA

**Minimum load/channel:** 25 W (ohmic)

50 VA (ohmic-inductive/ohmic-capacitive)

**Device width:** 8 HP = approx. 144 mm

**Contents:** With bus connecting terminal and cable cover.

# Dimming actuators/control units



## Universal dimming actuator REG-K/2x230/300 W



Version	Art. no.	
light grey	<b>MTN649330</b>	<b>Discontinued</b>

AC 230 V, 50-60 Hz  
 For switching and dimming incandescent lamps, HV halogen lamps and LV halogen lamps using dimmable wound transformers or electronic transformers.  
**(Phase control and phase alignment)**  
 With integral bus coupler, screw terminals, short-circuit, open-circuit and excess temperature protection with soft start function.  
 The dimming actuator automatically recognises the connected load. Combinations of ohmic and inductive, or ohmic and capacitive loads can also be connected. Combinations of inductive and capacitive loads must not be connected.  
 For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.  
**KNX software functions:** Dimming operation via KNX, extension units and on the device, different dimming curves and dimming speeds, the same dimming time, memory function, ON/OFF delay, staircase time function with/without manual OFF function, scenes (up to eight stored brightness values can be retrieved), central function, logic operation or priority control, blocking function, status feedback.  
**Nominal voltage:** AC 220 - 230 V, 50/60 Hz  
**Nominal power/channel:** max. 300 W/VA  
 25 W minimum load (ohmic)  
 50 W minimum load (ohmic/inductive/capacitive)  
**Input (extension unit operation):** AC 230 V, 50/60 Hz (same phase as the dimming channels)  
**Device width:** 4 modules = approx. 72 mm  
**Extension unit operation:** Extension TELE insert MTN573998  
**Contents:** With bus connecting terminal and cable cover.



## Universal dimming actuator REG-K/230/500 W



Version	Art. no.	
light grey	<b>MTN649350</b>	

AC 230 V, 50-60 Hz  
 For switching and dimming incandescent lamps, HV halogen lamps and LV halogen lamps using dimmable wound transformers or electronic transformers.  
**(Phase control and phase alignment)**  
 With integral bus coupler, screw terminals, short-circuit, open-circuit and excess temperature protection with soft start function.  
 The dimming actuator automatically recognises the connected load. Combinations of ohmic and inductive, or ohmic and capacitive loads can also be connected. Combinations of inductive and capacitive loads must not be connected.  
 For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.  
**KNX software functions:** Dimming operation via KNX, extension units and on the device, different dimming curves and dimming speeds, the same dimming time, memory function, ON/OFF delay, staircase time function with/without manual OFF function, scenes (up to eight stored brightness values can be retrieved), central function, logic operation or priority control, blocking function, status feedback.  
**Nominal voltage:** AC 220 - 230 V, 50/60 Hz  
**Nominal power/channel:** max. 500 W/VA  
 25 W minimum load (ohmic)  
 50 VA minimum load (ohmic/inductive/capacitive)  
**Input (extension unit operation):** AC 230 V, 50/60 Hz (same phase as the dimming channel)  
**Device width:** 4 modules = approx. 72 mm  
**Extension unit operation:** Extension TELE insert MTN573998  
**Contents:** With bus connecting terminal and cable cover.



#### Universal dimming actuator REG-K/230/1000 W



Version	Art. no.
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light grey	<b>MTN649310</b>
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AC 230 V, 50-60 Hz

For switching and dimming incandescent lamps, HV halogen lamps and LV halogen lamps using dimmable wound transformers or electronic transformers.

**(Phase control and phase alignment)**

With integral bus coupler, screw terminals, short-circuit, open-circuit and excess temperature protection with soft start function.

The dimming actuator automatically recognises the connected load. Combinations of ohmic and inductive, or ohmic and capacitive loads can also be connected. Combinations of inductive and capacitive loads must not be connected.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Dimming operation via KNX, extension units and on the device, different dimming curves and dimming speeds, the same dimming time, memory function, ON/OFF delay, staircase time function with/without manual OFF function, scenes (up to eight stored brightness values can be retrieved), central function, logic operation or priority control, blocking function, status feedback.

**Nominal voltage:** AC 110-230 V  $\pm 10\%$

**Operating voltage:** min. AC 92 V - max. AC 253 V

**Mains frequency:** 50/60 Hz  $\pm 2\%$

**Nominal load**

**Ohmic loads:** AC 110 V /50 Hz, 14-480 W

AC 230 V /50 Hz, 30-1000 W

AC 110 V /60 Hz, 14-400 W

AC 230 V /60 Hz, 30-850 W

**Inductive/capacitive loads:** AC 110 V /50 Hz, 24-480 VA

AC 230 V /50 Hz, 50-1000 VA

AC 110 V /60 Hz, 24-400 VA

AC 230 V /60 Hz, 50-850 VA

**Input (extension unit operation):** AC 110-230 V, 50/60 Hz (same phase as the dimming channel)

**Device width:** 4 modules = approx. 72 mm

**Extension unit operation:** Extension TELE insert MTN573998

**Contents:** With bus connecting terminal and cable cover.



#### Dimming actuator REG-K/2x230/300 W



Version	Art. no.
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light grey	<b>MTN646630</b>
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AC 230 V, 50 Hz

For switching and dimming incandescent lamps and dimmable, wound transformers (ohmic / inductive load).

**(Phase control)**

With integral bus coupler, plug-in screw terminals, short-circuit and overload protection and soft start function to protect the lamps.

Readiness for operation is indicated by a green LED after the application has been loaded, and an overload of one channel or both channels is indicated by a flashing light.

**KNX software functions:** Starting behaviour, memory function, dimming speed, switching off by relative dimming, configurable minimum brightness and behaviour on bus voltage failure/recovery are programmable.

**Nominal voltage:** AC 230 V, 50 Hz

**Nominal power/channel:** max. 300 W/VA

**Minimum load:** 25 W/VA

**Short-circuit protection:** via fuse

**Device width:** 6 modules = approx. 108 mm

**Contents:** With bus connecting terminal and cable cover.



#### KNX universal dimming actuator FM 50-210 W/VA with 2 inputs



Version

Art. no.

MTN6003-0003

1-gang universal dimming actuator with two inputs for installation in a size 60 switch box. Floating contacts can be connected to the two inputs.

The inputs have already been assigned to the actuator at the factory, enabling operation without programming.

Connection to 230 V via a flexible cable, approx. 20 cm long. The inputs and the KNX are connected via a 6-core, approx. 30 cm long, connecting cable. The connecting cable for the inputs can be extended to a max. of 5 m.

#### KNX software functions: Dimming actuator function:

Switching and dimming lamps. Switch on and dimming behaviour can be adjusted. Feedback of the switching state and the brightness value. "Soft ON", "Soft OFF" and time dimmer. Dimming or jumping to brightness values. Time-delayed switch off when a switch off brightness is not reached. Short circuit and load failure signal. Scene operation. Blocked operation via an object with parameterisable brightness value at the beginning and the end of blocking. Behaviour of the dimming actuator after bus voltage recovery.

#### Input function:

Free assignment of the switching, dimming, blind and valuator functions. Locking object. Behaviour when bus voltage recovers.

Switching: two switch objects per input. Command on rising/falling edge (ON, OFF, TOGGLE, no reaction).

Dimming: Single surface and dual-surface operation. Time between dimming and switching and dim step values. Telegram repetition and send stop telegram.

Blinds: Command on rising edge (none, UP, DOWN, TOGGLE), Operation concept (Step - Move - Step or Move - Step). Time between short and long operation. Slat adjustment time.

Valuator and Scene ext. input: Edge (push-button as make contact, push-button as break contact, switch) and value on edge. Value adjustment via long push-button action for valuator. Scene ext. unit with memory function.

**Nominal voltage:** AC 230 V, 50/60 Hz

#### Connected load

**Ohmic load:** AC 230 V, 50 to 210 W

**Incandescent lamps:** AC 230 V, 50 to 210 W

**Halogen lamps:** AC 230 V, 50 to 210 W

**LV halogen lamps:** 50 to 210 W/VA, wound transformer

50 to 210 W, electronic transformers

**Inputs:** 2

**Type of protection:** IP 20

**Dimensions:** 53x53x28 (WxHxD)

**Note:** For installation in a double box or an electronic box (Kaiser). There must be a minimum gap of 4mm between the 230V connection and the connection for the KNX/Inputs (SELV)

## Control units 1-10 V



## Control unit 0-10 V REG-K/1-gang with manual mode



Version	Art. no.
light grey	<b>MTN647091</b>

For connecting devices with 0-10 V interface to KNX. With integrated bus coupler and screw terminals (230 V) or plug-in screw terminals (0-10 V). Each individual 230 V switch output can be operated manually with a manual switch.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Different dimming curves and dimming speeds, the same dimming time, memory function, ON/OFF delay, staircase time function with/without manual OFF function, scenes (up to eight stored brightness values can be retrieved), central function, logic operation or priority control, blocking function, status feedback, behaviour on bus voltage recovery.

**Switch contact:** for switching the electronic ballasts/transformers

**Nominal voltage:** AC 100-240 V  $\pm 10\%$

**Operating voltage:** min. AC 90 V - max. AC 265 V

**Mains frequency:** 50-60 Hz  $\pm 10\%$

**Nominal current:** 16 A, inductive load  $\cos\phi = 0.6$

**Nominal load**

**Incandescent lamps:** AC 100 V, max. 1600 W

AC 230 V, max. 3600 W

AC 240 V, max. 3840 W

**Halogen lamps:** AC 100 V, max. 1086 W

AC 230 V, max. 2500 W

AC 240 V, max. 2608 W

**Fluorescent lamps:** AC 100 V, max. 1086 VA

AC 230 V, max. 2500 VA

AC 240 V, max. 2608 VA

parallel-compensated

**Capacitive load:** AC 100 V, max. 1600 W, 200  $\mu\text{F}$

AC 230 V, max. 3600 W, 200  $\mu\text{F}$

AC 240 V, max. 3840 W, 200  $\mu\text{F}$

**0-10 V interface:** 0.12-100 mA

**Voltage range:** DC 0-10 V

**Device width:** 2.5 HP = approx. 45 mm

**Contents:** With bus connecting terminal and cable cover.



#### Control unit 0-10 V REG-K/3-gang with manual mode



Version	Art. no.
light grey	<b>MTN646991</b>

For connecting devices with 0-10 V interface to KNX. With integrated bus coupler and screw terminals (230 V) or plug-in screw terminals (0-10 V). Each individual 230 V switch output can be operated manually with a manual switch.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Different dimming curves and dimming speeds, the same dimming time, memory function, ON/OFF delay, staircase time function with/without manual OFF function, scenes (up to eight stored brightness values can be retrieved), central function, logic operation or priority control, blocking function, status feedback, behaviour on bus voltage recovery.

**Switch contact:** for switching the electronic ballasts/transformers

**Nominal voltage:** AC 230 V, 50-60 Hz

**Nominal current:** 16 A,  $\cos\varphi = 0.6$

**Switching capacity:** AC 230 V, 3600 W,  $\cos\varphi = 1$

**Capacitive load:** AC 230 V, 16 A, 200  $\mu\text{F}$

**Incandescent lamps:** AC 230 V, max. 3600 W

**Halogen lamps:** AC 230 V, max. 2500 W

**Fluorescent lamps:**

AC 230 V, max. 3600 VA, uncompensated

AC 230 V, max. 2500 VA, with parallel compensation

**LV- halogen lamps with wound transformer:** max. 2000 VA

**0-10 V interface:** 0.12-100 mA

**Voltage range:** DC 0-10 V

**Device width:** 4 HP = ca. 72 mm

**Contents:** With bus connecting terminal and cable cover.

## DALI gateways



### KNX DALI gateway REG-K/1/16(64)/64/IP1



Version	Art. no.
	<b>MTN6725-0001</b>

The KNX DALI gateway connects KNX to the DALI bus. The gateway is a category I control device with an integrated DALI power supply for the EBs (electronic ballasts / electronic control gear).

It supports the switching and dimming of up to 64 EBs in 16 groups and the control up to 16 scenes. The 64 EBs can be controlled individually or in groups. Error messages of individual EBs or each connected lamp can be transmitted to the KNX and visualised.

DALI commissioning and configuration, as well as group assignment and scene setting, can be carried out using:

- the device (display and operating buttons which can be optionally disabled)
- the integrated Web server
- via a software plugin window communicating via a KNX or IP-connection

#### Web server functions:

Access via the LAN network using a PC, PDA or web panel. Commissioning is also made easier using a WLAN adapter. The internal web pages can be used to start up the device, and to configure, operate and display all important functions.

- Two separate user profiles with their own password
- Effect module with 16 effects and a total of up to 500 steps
- Configuring: scenes, effects, service, maintenance, burn-in, operating hours
- Operating: device, EBs and groups
- Displays: Status and error messages

With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Switching, dimming and value object per group or EB. Staircase timer function, status objects, delays between status feedbacks. Detailed error messages per EB and group. Test of DALI EBs for emergency lighting with central battery or built-in battery with selectable test intervals. Parallel broadcast triggering of all EBs, switch-on/switch-off. Dimming speeds for relative dimming and dimming values. Dimming value max./min. Various modes (normal, permanent, night, panic). Operating hours counter and automatic burn-in per EB.

**Supply voltage:** AC/DC 100-240 V, 50/60 Hz

**Outputs:** DALI D+, D-, DC 16-18 V (basic insulation, not SELV), max. 128 mA, short circuit-proof

**Interfaces:** KNX, Ethernet RJ-45, DALI

**Type:** Category I control device (single master)

**Wire range:** Supply or DALI: 1.5-2.5 mm<sup>2</sup>

**Type of protection:** IP 20

**Device width:** 4 modules = approx. 72 mm

**Contents:** With bus connecting terminal.



# Other actuators

## Other actuators

■ The devices have protection type IP 20 and can only be used indoors. Devices with a different type of protection are labelled separately.



### Analogue actuator REG-K/4-gang



Version	Art. no.
light grey	<b>MTN682291</b>

The output channels can be parameterised for different current and voltage signals to control different analogue variables (e.g. servomotors). The actuator has four analogue outputs. For use in connection with the analogue actuator module REG/4-gang, 8 analogue outputs are provided. Connections are made using the sub-bus. With continuity checking of the current outputs.  
 For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.  
**Auxiliary voltage:** AC 24 V (+/-10 %)  
**Analogue outputs:** 4  
**Current signals:** 0 ... 20 mA, 4 ... 20 mA  
**Voltage signals:** 0 ... 1 V, 0.. 10 V  
**Continuity checking:** 4 ... 20 mA  
**Outputs:** DC 24 V, 100 mA (total)  
**Device width:** 4 modules = approx. 72 mm  
**In KNX, to be completed with:** Power supply REG, AC 24 V/1 A MTN663529  
**Accessories:** Analogue actuator module REG/4-gang MTN682292  
**Contents:** With bus connecting terminal and cable cover.

### Analogue actuator module REG/4-gang



Version	Art. no.
light grey	<b>MTN682292</b>

Extension module to extend analogue actuator REG-K/4-gang from 4 to 8 analogue outputs. Connections are made using the sub-bus. The output channels can be independently parameterised for different current and voltage signals to control different control values (e.g. servomotors).  
 For installation on DIN rails TH35 according to EN 60715.  
**Auxiliary voltage:** AC 24 V (+/-10 %)  
**Analogue outputs:** 4  
**Current signals:** 0 ... 20 mA, 4 ... 20 mA  
**Voltage signals:** 0 ... 1 V, 0.. 10 V (DC)  
**Continuity checking:** 4 ... 20 mA  
**Outputs:** DC 24 V, 100 mA (total)  
**Device width:** 4 modules = approx. 72 mm  
**In KNX, to be completed with:** Analogue actuator REG-K/4-gang MTN682291  
**Contents:** With sub-bus jumper.

## Room temperature control unit System M



### Push-button 2-gang plus with room temperature control unit



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN6212-0344</b>
<input type="checkbox"/> polar white, glossy	<b>MTN6212-0319</b>
<input type="checkbox"/> active white, glossy	<b>MTN6212-0325</b>
<input checked="" type="checkbox"/> anthracite	<b>MTN6212-0414</b>
<input type="checkbox"/> aluminium	<b>MTN6212-0460</b>

For System M.

Convenient control unit with 4 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light.

With room temperature control unit and display.

With 5 red LEDs.

The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day (external trigger), display mode, time, switching times and brightness of the display.

The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.

With integrated bus coupler. The bus is connected using a bus connecting terminal.

**KNX software functions:**

**Functions of the push-buttons:**

Switching, toggling, dimming, blind control (relative or absolute), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions, timed control with synchronisation, notification functions, the cyclic reading of external temperature values, fan control, operating modes, move setpoints.

**Functions of the room temperature control unit:**

Controller type: 2-step control, continuous PI controller, switching PI controller (PWM)

Output: continuous in the range 0 to 100% or switching ON/OFF

Controller mode:

- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- Heating and cooling with one controller output
- 2-step heating with 2 control outputs
- 2-step cooling with 2 control outputs
- 2-step heating and cooling with 4 control outputs

Operating modes: Comfort, comfort extension, standby, night reduction, frost/heat protection

Move all setpoints, save all setpoint temperatures and operating modes when reset, external temperature monitoring, additional output of the control value as 1 byte value on the PWM.

Monitoring function for the actual temperature, valve protection function.

Scene function.

Operation: Menu.

**Contents:** With bus connecting terminal and supporting plate.

Screw for protection against dismantling.

With protective hood for plaster.



#### Push-button 4-gang plus with room temperature control unit



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN6214-0344</b>
<input type="checkbox"/> polar white, glossy	<b>MTN6214-0319</b>
<input type="checkbox"/> active white, glossy	<b>MTN6214-0325</b>
<input checked="" type="checkbox"/> anthracite	<b>MTN6214-0414</b>
<input type="checkbox"/> aluminium	<b>MTN6214-0460</b>

For System M.

Convenient control unit with 8 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light.

With room temperature control unit and display.

With integrated piezoelectric buzzer to display alarm states and IR receiver. All functions of the respective buttons can be controlled via IR remote control.

With 9 red LEDs.

The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day (external trigger), display mode, time, switching times and brightness of the display.

The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.

With integrated bus coupler. The bus is connected using a bus connecting terminal.

#### KNX software functions:

##### Functions of the push-buttons:

Switching, toggling, dimming, blind control (relative or absolute), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions, timed control with synchronisation, notification functions, the cyclic reading of external temperature values, fan control, operating modes, move setpoints.

##### Functions of the room temperature control unit:

Controller type: 2-step control, continuous PI controller, switching PI controller (PWM)

Output: continuous in the range 0 to 100% or switching ON/OFF

Controller mode:

- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- Heating and cooling with one controller output
- 2-step heating with 2 control outputs
- 2-step cooling with 2 control outputs
- 2-step heating and cooling with 4 control outputs

Operating modes: Comfort, comfort extension, standby, night reduction, frost/heat protection

Move all setpoints, save all setpoint temperatures and operating modes when reset, external temperature monitoring, additional output of the control value as 1 byte value on the PWM.

Monitoring function for the actual temperature, valve protection function.

Scene function.

Operation: Menu.

**Transmitter:** IR universal remote control MTN5761-0000

**To be completed with:** M-Smart frame, 2-gang without central bridge piece MTN4788.., M-Arc frame, 2-gang without central bridge piece MTN4858.., M-Star frame, 2-gang without central bridge piece MTN4668.., MTN4768.., MTN4868.., M-Plan frames, 2-gang without central bridge piece MTN4888.., MTN5158.., Metal frame, 2-gang without central bridge piece M-Elegance MTN4038.., Real glass frame, 2-gang without central bridge piece M-Elegance MTN4048..

**Contents:** With bus connecting terminal and supporting plate.

Screw for protection against dismantling.

With protective hood for plaster.

# Room temperature control units



## Room temperature control unit with display



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN6241-0344</b>
<input type="checkbox"/> polar white, glossy	<b>MTN6241-0319</b>
<input type="checkbox"/> active white, glossy	<b>MTN6241-0325</b>
<input checked="" type="checkbox"/> anthracite	<b>MTN6241-0414</b>
<input type="checkbox"/> aluminium	<b>MTN6241-0460</b>

For System M.

KNX Room temperature control unit with display, labelling field, operation and status LED. The 4 buttons allow to shift set values and change operation modes.

With 5 red LEDs.

The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day (external trigger), display mode, time, switching times and brightness of the display.

With integrated bus coupler. The bus is connected using a bus connecting terminal.

**KNX software functions:**

**Functions of the room temperature control unit:**

Controller type: 2-step control, continuous PI controller, switching PI controller (PWM)

Output: continuous in the range 0 to 100% or switching ON/OFF

Controller mode:

- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- Heating and cooling with one controller output
- 2-step heating with 2 control outputs
- 2-step cooling with 2 control outputs
- 2-step heating and cooling with 4 control outputs

Operating modes: Comfort, comfort extension, standby, night reduction, frost/heat protection

Move all setpoints, save all setpoint temperatures and operating modes when reset, external temperature monitoring, additional output of the control value as 1 byte value on the PWM.

Monitoring function for the actual temperature, valve protection function.

**Functions of the push-buttons:**

Selection of 1- 4 operating modes each push-button. Move setpoint.

**Accessories:** Protective hood for plaster System M MTN627591

**Contents:** With bus connecting terminal and supporting plate.

Screw for protection against dismantling.

With protective hood for plaster.

# Room temperature control units



## KNX Room temperature control unit, flush-mounted/PI with 4-gang push-button interface



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN616744</b>
<input type="checkbox"/> polar white, glossy	<b>MTN616719</b>
<input type="checkbox"/> active white, glossy	<b>MTN616725</b>
<input checked="" type="checkbox"/> anthracite	<b>MTN616814</b>
<input type="checkbox"/> aluminium	<b>MTN616860</b>

For System M.

The device is a room temperature control unit and a binary input. Depending on the operating mode, the current temperature setpoint value and the room temperature, a control value for the heating or cooling control unit is transmitted to the KNX. The temperature can either be recorded by the internal or the external temperature sensor which must be connected to the push-button interface.

The push-button interface generates an internal signal voltage for connecting max. four conventional push-buttons or floating contacts. Of these, two inputs can be used to connect low current LEDs.

With integrated bus coupler. The bus is connected using a bus connecting terminal.

**KNX software functions:**

**Functions of the room temperature control unit:**

Controller type: 2-step control, continuous PI control, switching PI control (PWM)

Output: continuous in the range 0 to 100% or switching ON/OFF

**Controller mode:**

- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- Heating and cooling with one controller output
- 2-step heating with 2 control outputs
- 2-step cooling with 2 control outputs

Operating modes: comfort, comfort extension, standby, night economy, frost/heat protection

Operation: Setpoint adjustment can be parameterised in the range with adjusting wheel; presence push-button functions can be parameterised/switched off

Valve protection, controller disable

**Push-button interface functions:**

Switching, dimming, external blinds, valuator (dimming valuator, extension unit for light scenes with/without memory function, temperature valuator, brightness valuator).

**Push-button interface:** up to 4 inputs, 2 of which can be used as outputs and one for connecting the remote sensor.

**Output voltage:** 5 V (SELV)

**Output current:** max. 0.8 mA

**Max. cable length:** Inputs/outputs max. 5 m, remote sensor max. 50 m

**Accessories:** Remote sensor for room temperature control unit UP/PI MTN616790



## Remote sensor for room temperature control unit UP/PI



Version	Art. no.
black	<b>MTN616790</b>

Temperature sensor the floor/room temperature measurement

**Cable length:** 4 m (2 x 0.75 mm<sup>2</sup>)

**To be completed with:** KNX Room temperature control unit, flush-mounted/PI with 4-gang push-button interface

System M MTN6167..., MTN6168..., Artec/Tracent/Antique MTN6169..

# Room temperature control units



## Room temperature control unit for properties



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN6221-0344</b>
<input type="checkbox"/> polar white, glossy	<b>MTN6221-0319</b>
<input type="checkbox"/> active white, glossy	<b>MTN6221-0325</b>
<input checked="" type="checkbox"/> anthracite	<b>MTN6221-0414</b>
<input type="checkbox"/> aluminium	<b>MTN6221-0460</b>

For System M.

KNX room temperature control unit for properties with integrated bus coupler. Depending on the operating mode, the current temperature setpoint value and the actual room temperature, a control value for the heating or cooling control unit is transmitted to the KNX. The temperature can optionally be measured by the internal or by an external bus temperature sensor. The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. Operating mode, nominal value, control function settings made only via the bus. The device does not have any operating and display elements.

With integrated bus coupler. The bus is connected using a bus connecting terminal.

**KNX software functions:**

**Functions of the room temperature control unit:**

Controller type: 2-step control, continuous PI controller, switching PI controller (PWM)

Output: continuous in the range 0 to 100% or switching ON/OFF

Controller mode:

- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- Heating and cooling with one controller output
- 2-step heating with 2 control outputs
- 2-step cooling with 2 control outputs
- 2-step heating and cooling with 4 control outputs

Operating modes: Comfort, comfort extension, standby, night reduction, frost/heat protection

Move all setpoints, save all setpoint temperatures and operating modes when reset, external temperature monitoring, additional output of the control value as 1 byte value on the PWM.

Monitoring function for the actual temperature, valve protection function.

Operation: only via bus telegrams.

**Contents:** With bus connecting terminal and supporting plate.

With protective hood for plaster.

## Room temperature control unit Artec, Tracent, Antique



## Push-button 2-gang plus with room temperature control unit



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN6212-4044</b>
<input type="checkbox"/> polar white, glossy	<b>MTN6212-4019</b>
<input type="checkbox"/> aluminium	<b>MTN6212-4060</b>
<input type="checkbox"/> stainless steel	<b>MTN6212-4146</b>

For Artec, Tracent, Antique.

Convenient control unit with 4 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light.

With room temperature control unit and display.

With 5 blue LEDs.

The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day (external trigger), display mode, time, switching times and brightness of the display.

The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.

With integrated bus coupler. The bus is connected using a bus connecting terminal.

**KNX software functions:****Functions of the push-buttons:**

Switching, toggling, dimming, blind control (relative or absolute), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions, timed control with synchronisation, notification functions, the cyclic reading of external temperature values, fan control, operating modes, move setpoints.

**Functions of the room temperature control unit:**

Controller type: 2-step control, continuous PI controller, switching PI controller (PWM)

Output: continuous in the range 0 to 100% or switching ON/OFF

Controller mode:

- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- Heating and cooling with one controller output
- 2-step heating with 2 control outputs
- 2-step cooling with 2 control outputs
- 2-step heating and cooling with 4 control outputs

Operating modes: Comfort, comfort extension, standby, night reduction, frost/heat protection

Move all setpoints, save all setpoint temperatures and operating modes when reset, external temperature monitoring, additional output of the control value as 1 byte value on the PWM.

Monitoring function for the actual temperature, valve protection function.

Scene function.

Operation: Menu.

**Contents:** With bus connecting terminal and supporting plate.

Screw for protection against dismantling.

With protective hood for plaster.

# Room temperature control units



## Push-button 4-gang plus with room temperature control unit



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN6214-4044</b>
<input type="checkbox"/> polar white, glossy	<b>MTN6214-4019</b>
<input type="checkbox"/> aluminium	<b>MTN6214-4060</b>
<input type="checkbox"/> stainless steel	<b>MTN6214-4146</b>

For Artec, Tracent, Antique.

Convenient control unit with 8 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light.

With room temperature control unit and display.

With integrated piezoelectric buzzer to display alarm states and IR receiver. All functions of the respective buttons can be controlled via IR remote control.

With 9 blue LEDs.

The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day (external trigger), display mode, time, switching times and brightness of the display.

The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.

With integrated bus coupler. The bus is connected using a bus connecting terminal.

### KNX software functions:

#### Functions of the push-buttons:

Switching, toggling, dimming, blind control (relative or absolute), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions, timed control with synchronisation, notification functions, the cyclic reading of external temperature values, fan control, operating modes, move setpoints.

#### Functions of the room temperature control unit:

Controller type: 2-step control, continuous PI controller, switching PI controller (PWM)

Output: continuous in the range 0 to 100% or switching ON/OFF

#### Controller mode:

- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- Heating and cooling with one controller output
- 2-step heating with 2 control outputs
- 2-step cooling with 2 control outputs
- 2-step heating and cooling with 4 control outputs

Operating modes: Comfort, comfort extension, standby, night reduction, frost/heat protection

Move all setpoints, save all setpoint temperatures and operating modes when reset, external temperature monitoring, additional output of the control value as 1 byte value on the PWM.

Monitoring function for the actual temperature, valve protection function.

Scene function.

Operation: Menu.

**Transmitter:** IR universal remote control MTN5761-0000

**To be completed with:** Artec frame, 1.5-gang MTN4819..

**Contents:** With bus connecting terminal and supporting plate.

Screw for protection against dismantling.

With protective hood for plaster.



# Room temperature control units



## Room temperature control unit with display



Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	<b>MTN6241-4044</b>
<input type="checkbox"/> polar white, glossy	<b>MTN6241-4019</b>
<input type="checkbox"/> aluminium	<b>MTN6241-4060</b>
<input type="checkbox"/> stainless steel	<b>MTN6241-4146</b>

For Artec, Tracent, Antique.

KNX Room temperature control unit with display, labelling field, operation and status LED. The 4 buttons allow to shift set values and change operation modes.

With 5 blue LEDs.

The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day (external trigger), display mode, time, switching times and brightness of the display.

With integrated bus coupler. The bus is connected using a bus connecting terminal.

**KNX software functions:**

**Functions of the room temperature control unit:**

Controller type: 2-step control, continuous PI controller, switching PI controller (PWM)

Output: continuous in the range 0 to 100% or switching ON/OFF

Controller mode:

- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- Heating and cooling with one controller output
- 2-step heating with 2 control outputs
- 2-step cooling with 2 control outputs
- 2-step heating and cooling with 4 control outputs

Operating modes: Comfort, comfort extension, standby, night reduction, frost/heat protection

Move all setpoints, save all setpoint temperatures and operating modes when reset, external temperature monitoring, additional output of the control value as 1 byte value on the PWM.

Monitoring function for the actual temperature, valve protection function.

**Functions of the push-buttons:**

Selection of 1- 4 operating modes each push-button. Move setpoint.

**Contents:** With bus connecting terminal and supporting plate.

Screw for protection against dismantling.

With protective hood for plaster.

# Room temperature control units



## KNX Room temperature control unit, flush-mounted/PI with 4-gang push-button interface



Version	Art. no.
<input type="checkbox"/> white, glossy	<b>MTN616944</b>
<input type="checkbox"/> polar white, glossy	<b>MTN616919</b>
<input type="checkbox"/> aluminium	<b>MTN616960</b>
<input type="checkbox"/> varnished stainless steel	<b>MTN616946</b>

For Artec, Trancent, Antique.

The device is a room temperature control unit and a binary input. Depending on the operating mode, the current temperature setpoint value and the room temperature, a control value for the heating or cooling control unit is transmitted to the KNX. The temperature can either be recorded by the internal or the external temperature sensor which must be connected to the push-button interface.

The push-button interface generates an internal signal voltage for connecting max. four conventional push-buttons or floating contacts. Of these, two inputs can be used to connect low current LEDs.

With integrated bus coupler. The bus is connected using a bus connecting terminal.

**KNX software functions:**

**Functions of the room temperature control unit:**

Controller type: 2-step control, continuous PI control, switching PI control (PWM)

Output: continuous in the range 0 to 100% or switching ON/OFF

Controller mode:

- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- Heating and cooling with one controller output
- 2-step heating with 2 control outputs
- 2-step cooling with 2 control outputs

Operating modes: comfort, comfort extension, standby, night economy, frost/heat protection

Operation: Setpoint adjustment can be parameterised in the range with adjusting wheel; presence push-button functions can be parameterised/switched off

Valve protection, controller disable

**Push-button interface functions:**

Switching, dimming, external blinds, valuator (dimming valuator, extension unit for light scenes with/without memory function, temperature valuator, brightness valuator).

**Push-button interface:** up to 4 inputs, 2 of which can be used as outputs and one for connecting the remote sensor.

**Output voltage:** 5 V (SELV)

**Output current:** max. 0.8 mA

**Max. cable length:** Inputs/outputs max. 5 m, remote sensor max. 50 m

**Accessories:** Remote sensor for room temperature control unit UP/PI MTN616790



## Remote sensor for room temperature control unit UP/PI



Version	Art. no.
black	<b>MTN616790</b>

Temperature sensor the floor/room temperature measurement

**Cable length:** 4 m (2 x 0.75 mm<sup>2</sup>)

**To be completed with:** KNX Room temperature control unit, flush-mounted/PI with 4-gang push-button interface

System M MTN6167..., MTN6168..., Artec/Trancent/Antique MTN6169..

## Room temperature control unit Altira



### KNX Room temperature control unit with display



Version	Art. no.
■ white	<b>ALB45154</b>
■ aluminium	<b>ALB46154</b>

2 modules

In Altira design.

KNX Room temperature control unit with display and 4 buttons. 2 buttons allow to shift set values and change operation modes, the other 2 buttons are used for navigation in the menu. The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day (external trigger), display mode, time, switching times and brightness of the display.

With integrated bus coupler. The bus is connected using a bus connecting terminal.

**KNX software functions:**

**Functions of the room temperature control unit:**

Controller type: 2-step control, continuous PI controller, switching PI controller (PWM)

Output: continuous in the range 0 to 100% or switching ON/OFF

Controller mode:

- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- Heating and cooling with one controller output
- 2-step heating with 2 control outputs
- 2-step cooling with 2 control outputs
- 2-step heating and cooling with 4 control outputs

Operating modes: Comfort, comfort extension, standby, night reduction, frost/heat protection

Move all setpoints, save all setpoint temperatures and operating modes when reset, external temperature monitoring, additional output of the control value as 1 byte value on the PWM.

Monitoring function for the actual temperature, valve protection function.

**Functions of the push-buttons:**

Selection of 1- 4 operating modes each push-button. Move setpoint.

**Contents:** With bus connecting terminal.

## Room temperature control unit Unica



### KNX Room temperature control unit with display



Version	Art. no.
<input type="checkbox"/> white	<b>MGU3.534.18</b>
<input type="checkbox"/> ivory	<b>MGU3.534.25</b>

2 modules

In Unica design.

KNX Room temperature control unit with display and 4 buttons. 2 buttons allow to shift set values and change operation modes, the other 2 buttons are used for navigation in the menu. The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day (external trigger), display mode, time, switching times and brightness of the display.

With integrated bus coupler. The bus is connected using a bus connecting terminal.

**KNX software functions:**

**Functions of the room temperature control unit:**

Controller type: 2-step control, continuous PI controller, switching PI controller (PWM)

Output: continuous in the range 0 to 100% or switching ON/OFF

Controller mode:

- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- Heating and cooling with one controller output
- 2-step heating with 2 control outputs
- 2-step cooling with 2 control outputs
- 2-step heating and cooling with 4 control outputs

Operating modes: Comfort, comfort extension, standby, night reduction, frost/heat protection

Move all setpoints, save all setpoint temperatures and operating modes when reset, external temperature monitoring, additional output of the control value as 1 byte value on the PWM.

Monitoring function for the actual temperature, valve protection function.

**Functions of the push-buttons:**

Selection of 1- 4 operating modes each push-button. Move setpoint.

**Contents:** With bus connecting terminal.

# Room temperature control units



## KNX Room temperature control unit with display



Version	Art. no.
<input type="checkbox"/> white	<b>MGU5.534.18</b>
<input type="checkbox"/> ivory	<b>MGU5.534.25</b>

2 modules

In Unica design.

KNX Room temperature control unit with display and 4 buttons. 2 buttons allow to shift set values and change operation modes, the other 2 buttons are used for navigation in the menu. The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day (external trigger), display mode, time, switching times and brightness of the display.

With integrated bus coupler. The bus is connected using a bus connecting terminal.

**KNX software functions:**

**Functions of the room temperature control unit:**

Controller type: 2-step control, continuous PI controller, switching PI controller (PWM)

Output: continuous in the range 0 to 100% or switching ON/OFF

Controller mode:

- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- Heating and cooling with one controller output
- 2-step heating with 2 control outputs
- 2-step cooling with 2 control outputs
- 2-step heating and cooling with 4 control outputs

Operating modes: Comfort, comfort extension, standby, night reduction, frost/heat protection

Move all setpoints, save all setpoint temperatures and operating modes when reset, external temperature monitoring, additional output of the control value as 1 byte value on the PWM.

Monitoring function for the actual temperature, valve protection function.

**Functions of the push-buttons:**

Selection of 1- 4 operating modes each push-button. Move setpoint.

**Contents:** With fixing frame.

With bus connecting terminal.

# Room temperature control units



## KNX Room temperature control unit with display



Version	Art. no.
<input type="checkbox"/> white	<b>MGU50.534.18</b>
<input checked="" type="checkbox"/> ivory	<b>MGU50.534.25</b>

2 modules

In Unica design.

KNX Room temperature control unit with display and 4 buttons. 2 buttons allow to shift set values and change operation modes, the other 2 buttons are used for navigation in the menu. The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day (external trigger), display mode, time, switching times and brightness of the display.

With integrated bus coupler. The bus is connected using a bus connecting terminal.

**KNX software functions:**

**Functions of the room temperature control unit:**

Controller type: 2-step control, continuous PI controller, switching PI controller (PWM)

Output: continuous in the range 0 to 100% or switching ON/OFF

Controller mode:

- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- Heating and cooling with one controller output
- 2-step heating with 2 control outputs
- 2-step cooling with 2 control outputs
- 2-step heating and cooling with 4 control outputs

Operating modes: Comfort, comfort extension, standby, night reduction, frost/heat protection

Move all setpoints, save all setpoint temperatures and operating modes when reset, external temperature monitoring, additional output of the control value as 1 byte value on the PWM.

Monitoring function for the actual temperature, valve protection function.

**Functions of the push-buttons:**

Selection of 1- 4 operating modes each push-button. Move setpoint.

**Contents:** With fixing frame and claws.

With bus connecting terminal.

## Room temperature control unit Unica Top



### KNX Room temperature control unit with display



Version	Art. no.
■ aluminium	<b>MGU3.534.30</b>
■ graphite	<b>MGU3.534.12</b>

2 modules

In Unica Top design.

KNX Room temperature control unit with display and 4 buttons. 2 buttons allow to shift set values and change operation modes, the other 2 buttons are used for navigation in the menu. The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day (external trigger), display mode, time, switching times and brightness of the display.

With integrated bus coupler. The bus is connected using a bus connecting terminal.

**KNX software functions:**

**Functions of the room temperature control unit:**

Controller type: 2-step control, continuous PI controller, switching PI controller (PWM)

Output: continuous in the range 0 to 100% or switching ON/OFF

Controller mode:

- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- Heating and cooling with one controller output
- 2-step heating with 2 control outputs
- 2-step cooling with 2 control outputs
- 2-step heating and cooling with 4 control outputs

Operating modes: Comfort, comfort extension, standby, night reduction, frost/heat protection

Move all setpoints, save all setpoint temperatures and operating modes when reset, external temperature monitoring, additional output of the control value as 1 byte value on the PWM.

Monitoring function for the actual temperature, valve protection function.

**Functions of the push-buttons:**

Selection of 1- 4 operating modes each push-button. Move setpoint.

**Contents:** With bus connecting terminal.

# Room temperature control units



## KNX Room temperature control unit with display



Version	Art. no.
■ aluminium	<b>MGU5.534.30</b>
■ graphite	<b>MGU5.534.12</b>

2 modules

In Unica Top design.

KNX Room temperature control unit with display and 4 buttons. 2 buttons allow to shift set values and change operation modes, the other 2 buttons are used for navigation in the menu. The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day (external trigger), display mode, time, switching times and brightness of the display.

With integrated bus coupler. The bus is connected using a bus connecting terminal.

**KNX software functions:**

**Functions of the room temperature control unit:**

Controller type: 2-step control, continuous PI controller, switching PI controller (PWM)

Output: continuous in the range 0 to 100% or switching ON/OFF

Controller mode:

- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- Heating and cooling with one controller output
- 2-step heating with 2 control outputs
- 2-step cooling with 2 control outputs
- 2-step heating and cooling with 4 control outputs

Operating modes: Comfort, comfort extension, standby, night reduction, frost/heat protection

Move all setpoints, save all setpoint temperatures and operating modes when reset, external temperature monitoring, additional output of the control value as 1 byte value on the PWM.

Monitoring function for the actual temperature, valve protection function.

**Functions of the push-buttons:**

Selection of 1- 4 operating modes each push-button. Move setpoint.

**Contents:** With fixing frame.

With bus connecting terminal.



# Room temperature control units



## KNX Room temperature control unit with display



Version	Art. no.
■ aluminium	<b>MGU50.534.30</b>
■ graphite	<b>MGU50.534.12</b>

2 modules

In Unica Top design.

KNX Room temperature control unit with display and 4 buttons. 2 buttons allow to shift set values and change operation modes, the other 2 buttons are used for navigation in the menu. The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day (external trigger), display mode, time, switching times and brightness of the display.

With integrated bus coupler. The bus is connected using a bus connecting terminal.

**KNX software functions:**

**Functions of the room temperature control unit:**

Controller type: 2-step control, continuous PI controller, switching PI controller (PWM)

Output: continuous in the range 0 to 100% or switching ON/OFF

Controller mode:

- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- Heating and cooling with one controller output
- 2-step heating with 2 control outputs
- 2-step cooling with 2 control outputs
- 2-step heating and cooling with 4 control outputs

Operating modes: Comfort, comfort extension, standby, night reduction, frost/heat protection

Move all setpoints, save all setpoint temperatures and operating modes when reset, external temperature monitoring, additional output of the control value as 1 byte value on the PWM.

Monitoring function for the actual temperature, valve protection function.

**Functions of the push-buttons:**

Selection of 1- 4 operating modes each push-button. Move setpoint.

**Contents:** With fixing frame and claws.

With bus connecting terminal.

## Devices for individual room temperature control



## KNX valve drive with status LED and 2 inputs



Version	Art. no.
	<b>MTN6921-0001</b>

EMO valve drive for heating valves. The device has 2 inputs for window contacts or presence detectors for instance.

Valve lift display via red LEDs. With automatic valve lift detection. The valve drive can be connected directly to the KNX. A separate power supply is not required. With integrated bus coupler.

**Power consumption:** max. 10 mA

**Lift:** max. 7,5 mm

**Positioning force:** 120 N

**Type of protection:** IP 21

**Protection class:** III as per EN 60730

**Installation:** Snaps onto the valve adapter

**Dimensions:** (H x W x D) 82 x 50 x 65 mm

**Contents:** With 2 valve adapters (VA10/VA78).

## KNX fan coil actuator REG-K



Version	Art. no.
light grey	<b>MTN645094</b>

For heating, ventilation and air conditioning control. For controlling fan convectors with up to three speeds, as well as for controlling three-step motor drives (continuous/pulse-width-modulated) or two-step thermal drives. The actuator supports 2-pipe and 4-pipe systems.

Two floating binary inputs for window contact and level contact for condensed water container, for example. Connection of 1-speed to 3-speed fans. The push-button plus with room temperature control can be used to activate the fan coil actuator.

With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions: Fan control:**

In automatic mode, the fan speeds are controlled dependently by the control value of the push-button plus. The three fan speeds and automatic mode can be switched via EIB telegram. The fan can be controlled either directly or via actuators / suitable dimming actuators. Fan speed feedback is possible via corresponding status feedback objects e.g. status LED of the push-button. The fan speed as well as the automatic status "(Auto)" can be displayed on the display of the push-button plus with TCU.

**Valve control:**

Type of controller: PI controller (PWM and continuous).

Controller mode: Heating and/or cooling with common or separate valve outputs.

Operating modes: The operating mode is selected in the push-button plus with TCU.

**Power supply:** AC 230 V  $\pm 10\%$ , 50/60 Hz

**Power consumption:** max. 3 VA

**Outputs:** 3 floating contacts (fan coil), 2 semi-conductor switches (valve connections)

**Switching capacity for valves:** 0.5 A, AC 24V - 230 V

**Additional relay switching capacity:** 16 A

**Fan relay switching capacity:** 8 A

**Inputs:** 2, max. cable length 5 m

**Operation:** Key for fan levels and heating/cooling mode

**Displays:** 9 status LEDs

**Device width:** 4 modules = approx. 72 mm

**Accessories:** Thermoelectric valve drive 230 V MTN639125, Thermoelectric valve drive 24 V MTN639126, Push-button 2-gang plus with room temperature control unit System M MTN6212-03.. /-04.., Artec MTN6212-40.. /-41.., Push-button 4-gang plus with room temperature control unit System M MTN6214-03.. /-04.., Artec MTN6214-40.. /-41..

# Room temperature control units



### Heating actuator REG-K/6x24/230/0.05A



Version	Art. no.
	<b>MTN6730-0001</b> <span style="color: red;">New</span>

For actuation of thermoelectric valve drives for heating or cooling ceilings. The heating actuator has 6 electronic outputs. Up to 4 valve drives can be connected to each output. The outputs are either switch activated (1 bit) or PWM signal (1 byte) activated. Each output is overload-protected and short-circuit-protected.

All outputs can be operated manually using push-button operation. Building site operation is possible.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Characteristics of valve drive (de-energised open/closed), PWM cycle time per channel, valve protection function per channel, cyclical monitoring of the control value per channel, operating hours counter, status indication per channel (nominal value, short circuit, overload, valve protection active, service mode, manual operation active, priority control active), summer and winter mode, locking each output in a forced position, behaviour on bus voltage failure and recovery, mains failure signal, group feedback, transmission of the largest 1 byte variable value.

**Nominal voltage:** AC 110-230 V, 50/60 Hz

**Outputs:** 6, electronic AC 24 V / 230 V

**Nominal current:** 0.05 ... 0.16 A, ohmic

**Switch-on current:** max. 1.5 A (2 s)

**Minimum load per used output:** 1 valve drive

**Number of valve drives:** max. 4 per output (230 V drives)  
max. 2 per output (24 V drives)

**Device width:** 4 modules = approx. 72 mm

**Accessories:** Thermoelectric valve drive 230 V MTN639125

Thermoelectric valve drive 24 V MTN639126

**Contents:** With bus connecting terminal and cable cover.



### Heating actuator REG-K/6x230/0.05 A



Version	Art. no.
light grey	<b>MTN645129</b> <span style="color: red;">Discontinued</span>

For actuation of thermoelectric valve drives for heating or cooling ceilings. The heating actuator has 6 electronic outputs. Up to 4 valve drives can be connected to each output. The outputs are either switch activated (1 bit) or PWM signal (1 byte) activated. Each output is overload-protected and short-circuit-protected.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**KNX software functions:** Cycle time, status feedback, summer and winter operation, cyclical monitoring of variables, locking each output in a forced position, behaviour on bus power failure and recovery, overload and short circuit status, mains power loss reporting, collective fault reporting connected to all valves, transmission of the largest 1 byte variable value.

**Nominal voltage:** AC 230 V, 50-60 Hz

**Outputs:** 6, electronic

**Nominal current:** 0.05 A, ohmic

**Starting current:** max. 1.5 A

**Minimum load per used output:** 1 valve drive

**Number of valve drives** max. 4 per output

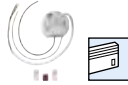
**Device width:** 4 modules = approx. 72 mm

**Accessories:** Thermoelectric valve drive 230 V MTN639125

**Contents:** With bus connecting terminal and cable cover.



#### KNX heating actuator FM with 3 inputs



Version

Art. no.

**MTN6003-0005**

1-gang heating actuator with three inputs for installation in a size 60 switch box. Floating contacts can be connected to the inputs.

Connection to 230 V via a flexible cable, approx. 20 cm long. The inputs and the KNX are connected via a 6-core, approx. 30 cm long, connecting cable. The connecting cable for the inputs can be extended to a max. of 5 m.

#### KNX software functions: Heating actuator function:

Can be controlled by a control value (1 bit or 1 byte). Status indication (1 bit or 1 byte). Valve control (de-energised open/closed). Summer or winter mode can be selected. Cyclical monitoring of control value. Emergency mode and alarm signal. Priority control (forced setting for summer and winter mode with different values). Behaviour when bus voltage recovers and fails. Overload or short circuit signal. Control of the valve drives (switching or via PWM). Function to protect valves from sticking.

#### Input function:

Free assignment of the switching, dimming, blind and valuator functions. Locking object.

Behaviour when bus voltage recovers.

Switching: two switch objects per input. Command on rising/falling edge (ON, OFF, TOGGLE, no reaction).

Dimming: Single surface and dual-surface operation. Time between dimming and switching and dim step values. Telegram repetition and send stop telegram.

Blinds: Command on rising edge (none, UP, DOWN, TOGGLE), Operation concept (Step - Move - Step or Move - Step). Time between short and long operation. Slat adjustment time.

Valuator and Scene ext. input: Edge (push-button as make contact, push-button as break contact, switch) and value on edge. Value adjustment via long push-button action for valuator.

Scene ext. unit with memory function.

**Nominal voltage:** AC 230 V, 50/60 Hz

**Switch contact:** Triac

**Nominal current:** 5 to 25 mA, max. 2 valve drives

**Inputs:** 3

**Temperature range:** -5 °C to 45 °C

**Type of protection:** IP 20

**Dimensions:** 53x53x28 (WxHxD)

**Note:** For installation in a double box or an electronic box (Kaiser). There must be a minimum gap of 4mm between the 230V connection and the connection for the KNX/Inputs (SELV)



#### KNX blind and heating actuator with 3 inputs



Version

Art. no.

MTN6003-0006

1-gang blind actuator and 1-gang heating actuator with three inputs for installation in a size 60 switch box. Floating contacts can be connected to the inputs.

The inputs have already been assigned to the actuator at the factory, enabling operation without programming.

Connection to 230 V via a flexible cable, approx. 20 cm long. The inputs and the KNX are connected via a 6-core, approx. 30 cm long, connecting cable. The connecting cable for the inputs can be extended to a max. of 5 m.

#### KNX software functions: Blind actuator function:

Operation mode: Blinds, roller shutters, awnings or ventilation flaps. Raising or lowering times with extension for the upper limit position. Status feedback of the position or of the slat position. Active/passive status feedback, cycl. status feedback function. Up to 5 safety functions (3 wind alarms, 1 rain alarm, 1 frost alarm). Cycl. monitoring. Sun protection function with fixed and variable positions. Shading controls with heating/cooling automatic mode and presence function. Behaviour when bus voltage fails/recovers. Status feedback delay after bus voltage recovery. Priority function. 8 Scene function. Memory function for scenes.

#### Heating actuator function:

Can be controlled by a control value (1 bit or 1 byte). Status indication (1 bit or 1 byte). Valve control (de-energised open/closed). Summer or winter mode can be selected. Cyclical monitoring of control value. Emergency mode and alarm signal. Priority control (forced setting for summer and winter mode with different values). Behaviour when bus voltage recovers and fails. Overload or short circuit signal. Control of the valve drives (switching or via PWM). Function to protect valves from sticking.

#### Input function:

Free assignment of the switching, dimming, blind and valuator functions. Locking object.

Behaviour when bus voltage recovers.

Switching: two switch objects per input. Command on rising/falling edge (ON, OFF, TOGGLE, no reaction).

Dimming: Single surface and dual-surface operation. Time between dimming and switching and dim step values. Telegram repetition and send stop telegram.

Blinds: Command on rising edge (none, UP, DOWN, TOGGLE), Operation concept (Step - Move - Step or Move - Step). Time between short and long operation. Slat adjustment time.

Valuator and Scene ext. input: Edge (push-button as make contact, push-button as break contact, switch) and value on edge. Value adjustment via long push-button action for valuator. Scene ext. unit with memory function.

**Nominal voltage:** AC 230 V, 50/60 Hz

#### Blind output

**Switching current:** 3 A, AC1

#### Nominal output

**Motor:** AC 230 V, 600 VA

#### Heating output

**Switch contact:** Triac

**Nominal current:** 5 to 25 mA, max. 2 valve drives

**Inputs:** 3

**Temperature range:** -5 °C to 45 °C

**Type of protection:** IP 20

**Dimensions:** 53x53x28 (WxHxD)

**Note:** For installation in a double box or an electronic box (Kaiser). There must be a minimum gap of 4mm between the 230V connection and the connection for the KNX/Inputs (SELV)



### Thermoelectric valve drive 230 V



Version	Art. no.
polar white	<b>MTN639125</b>

Thermoelectric valve drive for opening and closing valves. For 2-step or PWM control of heating, air conditioning and ventilation systems, individual room control of surface heaters, control of heating circuit distributors, radiators, convactor heaters, cooling ceilings. Operation is carried out by the heating actuator REG-K/ 6x230/0.05 A or a room temperature control unit (230 V) with 2-step or PWM output.

Valve adapters permit compatibility with a variety of valve bodies and heating circuit distributors.

- First-open function: The drive is factory-set to de-energised open. This allows the heating to be operated during the building shell phase.
- De-energised closed
- Functional display (open, closed, intermediate settings)
- Adjustment control
- Protection against dismantling
- Plug-in connecting cable
- Plug-in assembly

**Supply voltage:** AC 230 V, 50/60 Hz

**Starting current:** max. 300 mA for max. 200 ms

**Operating current:** 8 mA

**Power consumption:** 1.8 W

**Lift:** approx. 4 mm

**Running time:** 45 s/mm

**Positioning force:** 100 N

**Circulating medium temperature:** 0-100°C

**Type of protection:** IP 54 / II, in all installation positions

**Connecting cable:** 1 m, 2x0.75 mm<sup>2</sup> PVC

**Dimensions:** 60x44x61 mm (HxWxD)

**To be completed with:** Room temperature control insert with switch MTN536302/04

**In KNX, to be completed with:** Heating actuator REG-K/6x230/0.05 A MTN645129, KNX fan coil actuator REG-K MTN645094, KNX heating actuator FM with 3 inputs MTN6003-0005, KNX blind and heating actuator with 3 inputs MTN6003-0006

**Accessories:** Valve adapter VA50 for thermoelectric valve drive MTN639150, Valve adapter VA78 for thermoelectric valve drive MTN639178, Valve adapter VA80 for thermoelectric valve drive MTN639180

# Room temperature control units



### Thermoelectric valve drive 24 V



Version	Art. no.
polar white	<b>MTN639126</b>

Thermoelectric valve drive for opening and closing valves. For 2-step or PWM control of heating, air conditioning and ventilation systems, individual room control of surface heaters, control of heating circuit distributors, radiators, convector heaters, cooling ceilings. Fan coil actuator REG-K or a room temperature control unit (24 V) with 2-step or PWM output activates.

Valve adapters permit compatibility with a variety of valve bodies and heating circuit distributors.

- First-open function: The drive is factory-set to de-energised open. This allows the heating to be operated during the building shell phase.

- De-energised closed
- Functional display (open, closed, intermediate settings)
- Adjustment control
- Protection against dismantling
- Plug-in connecting cable
- Plug-in assembly

**Supply voltage:** AC/DC 24 V +20%/-10%, 0-60 Hz

**Starting current:** max. 250 mA for max. 2 min

**Operating current:** 75 mA

**Power consumption:** 1.8 W

**Lift:** approx. 4 mm

**Running time:** 45 s/mm

**Positioning force:** 100 N

**Medium temperature:** 0-100°C

**Type of protection/protection class:** IP 54 / II, in all installation positions

**Connecting cable:** 1 m, 2x0.75 mm² PVC

**Dimensions:** 60 x 44 x 61 mm (HxVxD)

**To be completed with:** Room temperature control insert with switch MTN536302/04, Power supply REG, AC 24 V/1 A MTN663529

**In KNX, to be completed with:** KNX fan coil actuator REG-K MTN645094, Power supply REG, AC 24 V/1 A MTN663529

**Accessories:** Valve adapter VA50 for thermoelectric valve drive MTN639150, Valve adapter VA78 for thermoelectric valve drive MTN639178, Valve adapter VA80 for thermoelectric valve drive MTN639180



### Valve adapter VA50 for thermoelectric valve drive



Version	Art. no.
	<b>MTN639150</b>

For Honeywell+Braukmann, Reich, Landis+Gyr, MNG, Cazzagniga. Valve adapters permit compatibility with a variety of valve bodies and heating circuit distributors

**To be completed with:** Thermoelectric valve drive 230 V MTN639125, Thermoelectric valve drive 24 V MTN639126

### Valve adapter VA78 for thermoelectric valve drive



Version	Art. no.
	<b>MTN639178</b>

For Danfoss RA. Valve adapters permit compatibility with a variety of valve bodies and heating circuit distributors

**To be completed with:** Thermoelectric valve drive 230 V MTN639125, Thermoelectric valve drive 24 V MTN639126



### Valve adapter VA80 for thermoelectric valve drive



Version	Art. no.
	<b>MTN639180</b>

For Heimeier, Herb, Onda, Schlösser (from 1993), Oventrop M30x1.5, TeSa.

Valve adapters permit compatibility with a variety of valve bodies and heating circuit distributors

**To be completed with:** Thermoelectric valve drive 230 V MTN639125, Thermoelectric valve drive 24 V MTN639126

## Power supplies



### Power supply REG, 24 V DC / 0.4 A



Version	Art. no.
light grey	<b>MTN693003</b>

Power supply for 24 V binary inputs.  
 For installation onto DIN rails EN 50022.  
 With integrated overload and short-circuit protection.  
 For installation on DIN rails TH35 according to EN 60715.  
**Primary supply:** AC 230 V, 48-63 Hz  
**Output voltage:** DC 24 V +/- 3 %  
**Output current:** max. 0.4 A  
**Output power:** max. 10 W  
**Device width:** 1 module = approx. 18 mm  
**For supplying power to:** Binary input REG-K/4x24 MTN644892, Binary input REG-K/8x24 MTN644792, KNX/IP router REG-K MTN680329



### Power supply REG, 24 V DC / 1.25 A



Version	Art. no.
light grey	<b>MTN693004</b>

Power supply for 24 V binary inputs, REG-K panel control, KNX/IP router REG-K, 10" IP Touch Panel.  
 With integrated overload and short-circuit protection.  
 For installation on DIN rails TH35 according to EN 60715.  
**Primary supply:** AC 100-240 V, 50-60 Hz  
**Output voltage:** DC 24 V +/- 3 %  
**Output current:** max. 1.25 A  
**Output power:** max. 30 W  
**Device width:** 4 modules = approx. 72 mm  
**For supplying power to:** Binary input REG-K/4x24 MTN644892, Binary input REG-K/8x24 MTN644792, KNX/IP router REG-K MTN680329, TeleController Plus REG-K MTN680790



### Power supply REG, AC 24 V/1 A



Version	Art. no.
light grey	<b>MTN663529</b>

Power supply for 24 V binary inputs, weather station REG-K/4-gang, analogue input module REG-K/4-gang, rain sensor, wind sensor with 0 - 10 V interface and heating, KNX/IP router REG-K.  
 With fuse.  
 For installation on DIN rails TH35 according to EN 60715.  
**Primary supply:** AC 230 V, +/- 10 %, 50-60 Hz  
**Output voltage:** AC 24 V  
**Output current:** max. 1 A  
**Fuse:** 5x20 mm, 250 V, T 160 mA  
**Device width:** 5 modules = approx. 90 mm  
**For supplying power to:** Binary input REG-K/8x24 MTN644792, Weather station REG-K/4-gang MTN682991, Analogue input module REG/4-gang MTN682192, Rain sensor MTN663595, Wind sensor with 0-10 V interface and heating MTN663592, KNX/IP router REG-K MTN680329, Thermoelectric valve drive 24 V MTN639126  
**Contents:** With spare fuse.



# Office Roombox

Roombox is a new innovative device for electrical distribution, protection, electrical energy metering and control for lighting, shutter and HVAC circuits in office buildings.

## 2 or 3 applications:

- Lighting circuits supply and control.
- Heating ventilation and air conditioning (HVAC) circuits supply and control.
- Shutter/roller blinds circuits supply and control.

DB123797



Roombox

DB123795



Left-hand side shutter output



Right-hand side shutter output



Window-side dimmable lighting output



Corridor-side dimmable lighting output



HVAC output  
(230 V valve actuator KNX only)



Window-side ON/OFF lighting output



Corridor-side ON/OFF lighting output

## Function

### Electrical distribution

- Power input: 1 x single phase 16 A, 230 V, +10 %, -15 % - 50 Hz (2.5 mm<sup>2</sup> cable).
- Power output: 12 x single phase of 600 VA max (1.5 mm<sup>2</sup> cable).

### Electrical protection

- Incomer main protection: 16 A, C curve.
- Individual output protection with warranted selectivity.
- Protection via static switch technology against:
  - short circuit: I<sub>cc</sub> = 10 kA
  - overload: I<sub>n</sub> = 2.6 A
  - earth leakage: I<sub>Δn</sub> = 10 mA.
- Remote reset capability of static switch.

### Energy metering

- Class 1 Energy meter providing kW/h reading for:
  - total roombox consumption.
- Class 2 Energy meter providing kW/h reading for:
  - total lighting consumption
  - total HVAC electrical consumption.

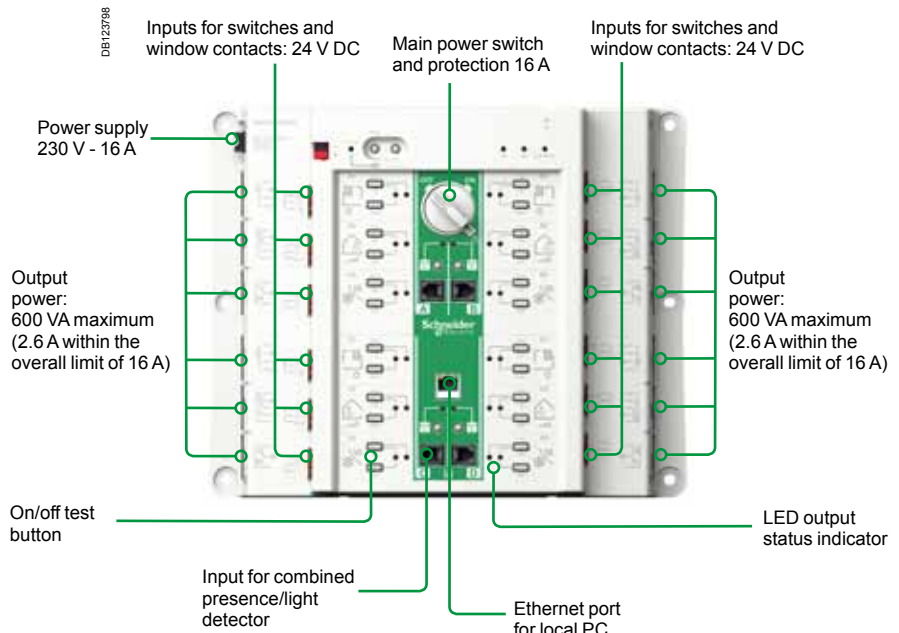
### Control

- Inputs:
  - 12 digital input for single / double gang push button or window contact
  - 4 combined analog and digital input for presence detection and light level sensor
  - optional RF zigbee antennae module compatible with self powered switches form Schneider Electric.
- Controlled outputs (as per reference):
  - lighting circuits: ON/OFF, Dimming – DALI
  - automated shutters and blinds: UP/DOWN/TILT (slat angle change) on 220-230 V motors
  - power supply to HVAC terminal controller or supply and control of 230 V valve
- Communication protocols: KNX.
- Configuration:
  - automatic inputs recognition with predefined settings and assignment
  - easy local zone assignment
  - predefined energy optimisation scenario.

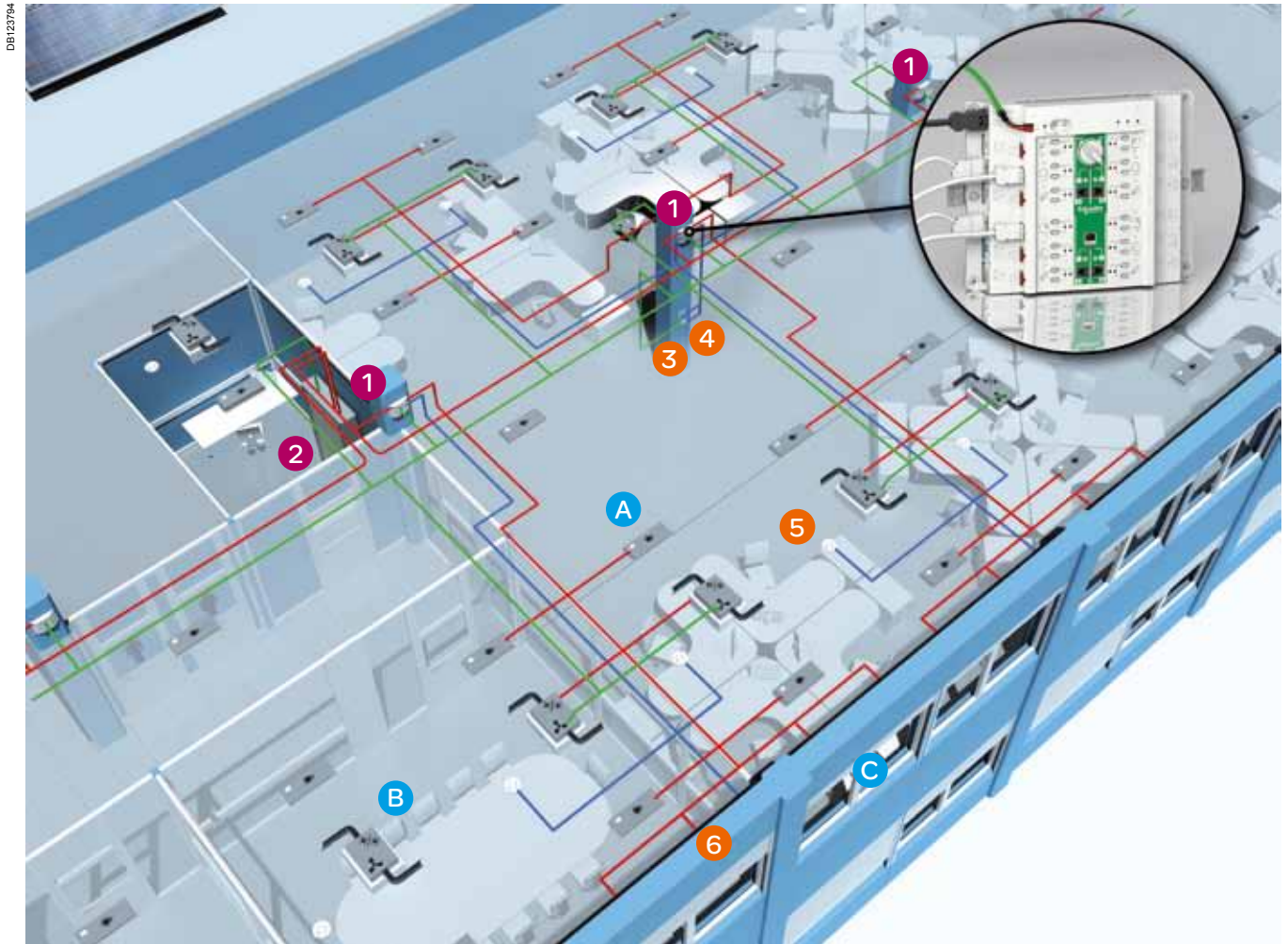
## Installation

- Horizontal or vertical mounting.
- 4 x M6 screws for direct surface mounting or Din rail fixing with standard accessories.

## Description



## Electrical and control architecture



- 1 Roombox
- 2 BMS  
Roombox works either on its own or as part of your BMS (on KNX)

### Upstream

- A single electrical circuit powers several Roombox units
- A single communication cable (KNX bus) links HVAC controllers and Roombox units to each other
- No additional cabling needed to link Roombox to your supervision system

### Downstream from Roombox

- Roombox powers and controls each system individually, which reduces the amount of cabling needed and makes installation in drop ceilings easier
- You can even opt for RF (radio frequency) instead of cabling downline from the Roombox

### Sensors

- 3 Pushbutton roller blind/shutter control or batteryless and wireless pushbutton
- 4 Pushbutton light control or batteryless and wireless pushbutton light control
- 5 Roombox multisensor motion detector and light sensor
- 6 Open/closed window contact

### Equipments

- A Lighting
- B Heating, Ventilation and Air Conditioning (HVAC)
- C Blinds/roller shutters

## Technical data

Office Roombox		KNX			
Reference	Standard product	ORBK4D4S4HW	ORBK4L4S4HW	ORBK8D0S4HW	ORBK8L0S4HW
<b>Power</b>					
Mains power input		16 A			
Output circuits		2.6 A, 600 VA max			
Metering		Class 1, Class 2			
<b>Communication protocol</b>					
KNX		■	■	■	■
<b>Controlled output power circuits x 12</b>					
<b>Lighting circuits <sup>(1)</sup></b>		<b>x 4</b>	<b>x 4</b>	<b>x 8</b>	<b>x 8</b>
ON/OFF		■	■	■	■
Dimming via DALI		■	No	■	No
Daylight harvesting		■	No	■	No
Presence control		■	■	■	■
<b>Automated shutters and roller blinds circuits</b>		<b>x 4</b>	<b>x 4</b>	<b>No</b>	<b>No</b>
UP/DOWN		■	■	No	No
TILT (slat angle change)		■	■	No	No
<b>HVAC circuits <sup>(2)</sup></b>		<b>x 4</b>	<b>x 4</b>	<b>x 4</b>	<b>x 4</b>
230 V power supply		■	■	■	■
230 V valve control		■	■	■	■
<b>Inputs x 16</b>					
<b>Pushbutton for lighting</b>		<b>x 4</b>	<b>x 4</b>	<b>x 8</b>	<b>x 8</b>
Input types		Single/double impulse pushbutton, rocker switch			
<b>Pushbutton for automated shutters and roller blinds</b>		<b>x 4</b>	<b>x 4</b>	<b>No</b>	<b>No</b>
Input types		Double impulse pushbutton			
<b>Window contact</b>		<b>x 4</b>	<b>x 4</b>	<b>x 4</b>	<b>x 4</b>
Input types		Normally closed (normally open configured via ETS)			
<b>Multi-sensor</b>		<b>x 4</b>	<b>x 4</b>	<b>x 4</b>	<b>x 4</b>
Input types		Analogue (1-10 V) for light level, Digital for presence			
<b>Connection</b>					
Mains supply		Wieland GST18, 3 poles			
Power outputs		Wieland GST15, 3, 4 or 5 poles according to load type			
Digital inputs		Wieland GST15, 3 poles with mechanical key			
Multi-sensor input		RJ12 jack			
<b>Environment</b>					
Operating temperature		0°C to + 50°C			
Storage temperature		-15°C to + 65°C			
Humidity		0-95 % non-condensing			
Degree of protection	When no connectors on	IP20			
	When all connectors on	IP30			
		IK07			
<b>Compliance with standards</b>					
Switches for fixed electrical installations		IEC/EN 60669-1			
Low voltage switch gear		IEC/EN 60947-4-2 and IEC/EN 60947-4-3			
Metering		IEC/EN 61557-12			
<b>Product information</b>					
Dimensions L x W x H (mm)		280 x 345 x 89			
Weight (g)		2500			
Material		Polycarbonate UL94 V0 rated			
Color		RAL 9003			

(1) Can be converted to a HVAC circuit through programming in KNX range.

(2) Can be converted to a ON/OFF lighting circuit through programming in KNX range.

## Office Roombox accessories



## Presence detector and light-level sensor



Version	Art. no.
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<b>MTN6901-0000</b>	
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Presence detection indoors. The presence and brightness sensor detects smaller movements in the room. The sensor is connected to the Roombox via the MTN6901-0003 (length 15 m) cable which is available as an accessory.

The sensor has two sockets allowing through-wiring to other presence and brightness sensors. The second presence detector detects movement but does not detect brightness. The extension cable MTN6901-0005 (length 15 m) for the presence and brightness sensor is available for this.

The sensor is installed in 68 mm ceiling openings. Area of application: e.g. offices, schools, public buildings, homes. Optimum installation height of 2.50 m. With the surface-mounted housing MTN6901-0001, the sensor can also be installed in non-suspended ceilings.

**Nominal voltage:** DC 16-24 V +10 %

**Current consumption:** max. 10 mA

**Connection:** to the Roombox via accessory cable (art. no. MTN6901-0003)

**Installation:** flush mounting or surface mounting surface-mounted housing

**Ceiling cut-out:** Ø 68 mm

**Mounting height:** optimal 2.5 m, at least 1.7 m

**Angle of detection:** 360°

**Range:** Diameter max. 8 m around the installation site (at 2,50 m mounting height).

**Number of levels:** 5

**Number of zones:** 71 with 284 switching segments

**Light sensor:** 0-10V corresponds to approx. 0 to 900 Lux

**Type of protection:** IP 20

**Ambient temperature:** +5 to +45 °C (operation)

**EC guidelines:** EMC guideline 2004/108/EEC

**Accessories:** Surface-mounted housing for presence detector and light-level sensor MTN6901-0001, Extension cable for presence detector and light-level sensor 15 m MTN6901-0005

**For Roombox, to be completed with:** Connection cable for presence detector and light-level sensor 15 m MTN6901-0003

## Surface-mounted housing for presence detector and light-level sensor



Version	Art. no.
---------	----------

<b>MTN6901-0001</b>	
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The surface-mounted housing for Presence detector and light-level sensor allows them to be surface mounted.

**Outer dimensions:** Ø 125 mm x 40 mm (Ø x D)

**Accessories from:** Presence detector and light-level sensor MTN6901-0000

## Connection cable for presence detector and light-level sensor 15 m



Version	Art. no.
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<b>MTN6901-0003</b>	
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**In KNX, to be completed with:** Presence detector and light-level sensor MTN6901-0000

# Office Roombox accessories



**Extension cable for presence detector and light-level sensor 15 m**



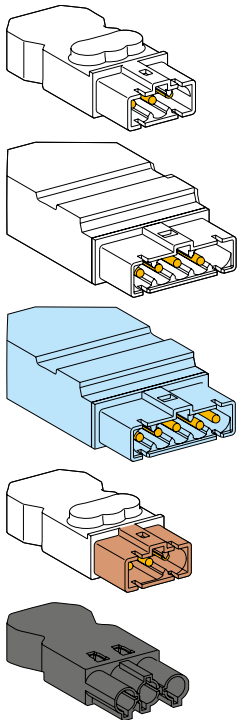
Version	Art. no.
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**MTN6901-0005**

**Accessories from:** Presence detector and light-level sensor MTN6901-0000



Type	Qty	Cat. no.
<b>DIN RAIL Mounting</b>		
DIN RAIL bolt for M6 screws	100	<b>NSYTDE6</b>
18 mm M6 screw with ring for DIN rail kit	100	<b>NSYS18M6H</b>



**Customer connector**

HVAC, LIGHT On/Off output, gesis MINI GST 15i3, 3 poles, white (pack of 50 pieces)	50	<b>ORBCL50</b>
Automated shutters output, gesis MINI GST 15i4, 4 poles, white (pack of 50 pieces)	50	<b>ORBCS50</b>
Lighting DALI output, gesis MINI GST 15i5, 5 poles, pastel blue (pack of 50 pieces)	50	<b>ORBCD50</b>
Wired input, gesis MINI GST 15i3, 3 poles, brown (pack of 50 pieces)	50	<b>ORBCI50</b>
Mains power supply input, gesis MINI GST 18i3, 3 poles, black (pack of 50 pieces)	50	<b>ORBCM50</b>

ALB45150	75	MGU50.530.30	81	MTN6214-4044	71,	MTN6606-0071	108	MTN617425	60
ALB45151	75	MGU50.531.12	81		160	MTN6700-0002	119	MTN617444	60
ALB45152	75	MGU50.531.18	78	MTN6214-4060	71,	MTN6700-0004	122	MTN617519	60
ALB45153	95	MGU50.531.25	78		160	MTN6700-0008	125	MTN617525	60
ALB45154	163	MGU50.531.30	81	MTN6214-4146	71,	MTN6700-0012	129	MTN617544	60
ALB46150	75	MGU50.532.12	81		160	MTN6710-0002	144	MTN617819	68
ALB46151	75	MGU50.532.18	78	MTN6221-0319	158	MTN6710-0004	145	MTN618319	60
ALB46152	75	MGU50.532.25	78	MTN6221-0325	158	MTN6725-0001	152	MTN618320	60
ALB46153	95	MGU50.532.30	81	MTN6221-0344	158	MTN6730-0001	171	MTN618419	60
ALB46154	163	MGU50.533.12	98	MTN6221-0414	158	MTN6901-0000	180	MTN618420	60
CCT15860	109	MGU50.533.18	96	MTN6221-0460	158	MTN6901-0001	180	MTN619119	64
CCT15861	109	MGU50.533.25	96	MTN6241-0319	156	MTN6901-0003	180	MTN619125	64
LSS100100	32	MGU50.533.30	98	MTN6241-0325	156	MTN6901-0005	181	MTN619144	64
LSS100200	33	MGU50.534.12	169	MTN6241-0344	156	MTN6903-6014	57	MTN619219	65
MGU3.530.12	79	MGU50.534.18	166	MTN6241-0414	156	MTN6903-6019	57	MTN619225	65
MGU3.530.18	76	MGU50.534.25	166	MTN6241-0460	156	MTN6903-6060	57	MTN619244	65
MGU3.530.25	76	MGU50.534.30	169	MTN6241-4019	161	MTN6903-6114	58	MTN619319	64
MGU3.530.30	79	MTN5761-0000	27	MTN6241-4044	161	MTN6903-6119	58	MTN619325	64
MGU3.531.12	79	MTN6003-0001	117	MTN6241-4060	161	MTN6903-6160	58	MTN619344	64
MGU3.531.18	76	MTN6003-0002	118	MTN6241-4146	161	MTN6903-6214	58	MTN619419	64
MGU3.531.25	76	MTN6003-0003	149	MTN6260-0307	44	MTN6903-6219	58	MTN619425	64
MGU3.531.30	79	MTN6003-0004	139	MTN6260-0310	45	MTN6903-6260	58	MTN619444	64
MGU3.532.12	79	MTN6003-0005	172	MTN6260-0315	46	MTN6903-6300	57	MTN619519	65
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MGU3.534.25	164	MTN6212-0414	62,	MTN6270-1119	53	MTN297844	31	MTN625160	64
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MGU5.533.25	96	MTN6214-0344	63,	MTN6270-5008	50	MTN616946	162	MTN626144	72
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