

KNX Catalogue

Plan for intelligent future safety

Building control systems



P135240



P135568



P135573

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.

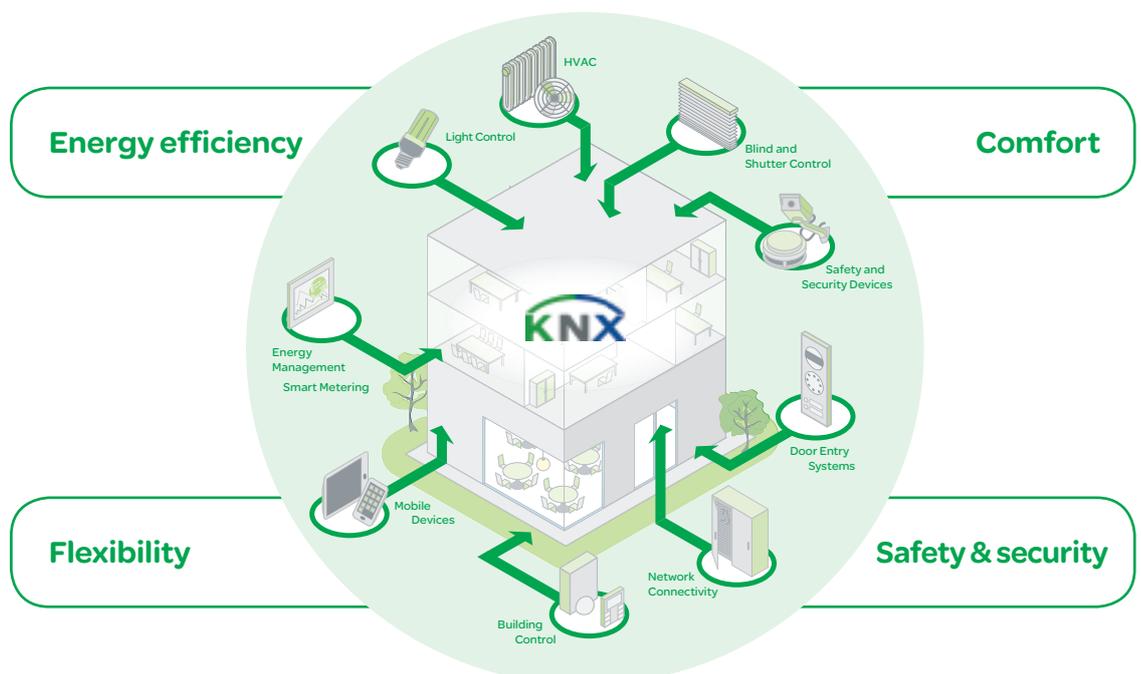
Safety and security

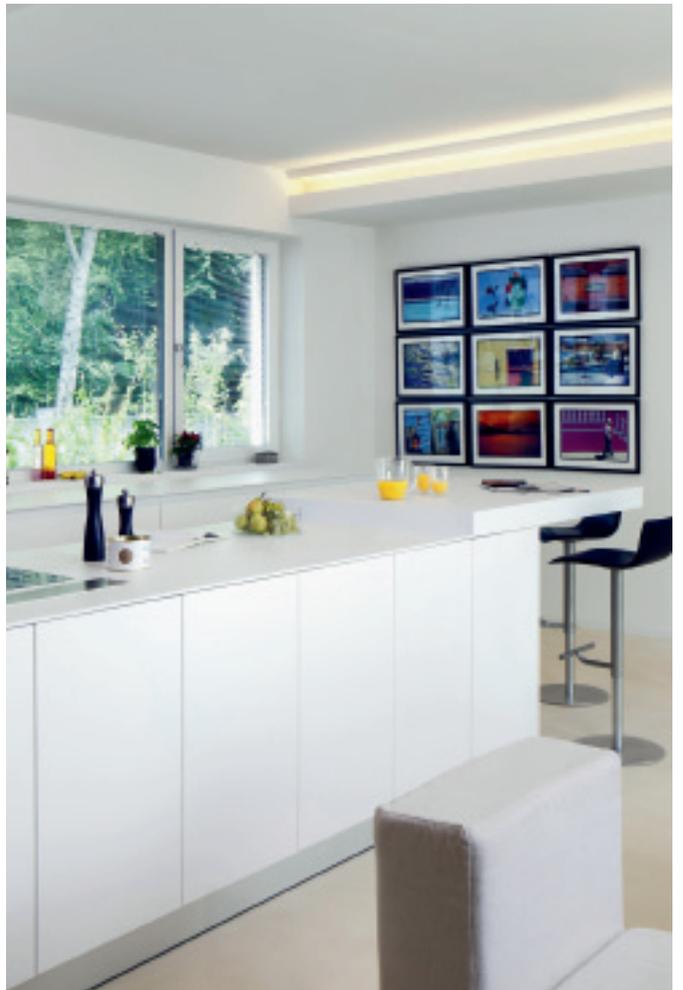
To let residents feel as safe as possible, building technology must be able to react in a fast and intelligent way in any situation and at any time. No matter whether the building is full of life or quiet.

Combining building control with the technologies of the future



KNX combines modern building technologies in one system





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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.



P135639



P135644

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, CO₂ sensors automatically activate the ventilation system.



Roombox



P115377

ARGUS presence detector



P121071

KNX push-button plus with room temperature control unit



P117856

OptiLine



P135667



P135671

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 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.



P135683

Touch Panel 7"

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.



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KNX push-button plus with room temperature control unit

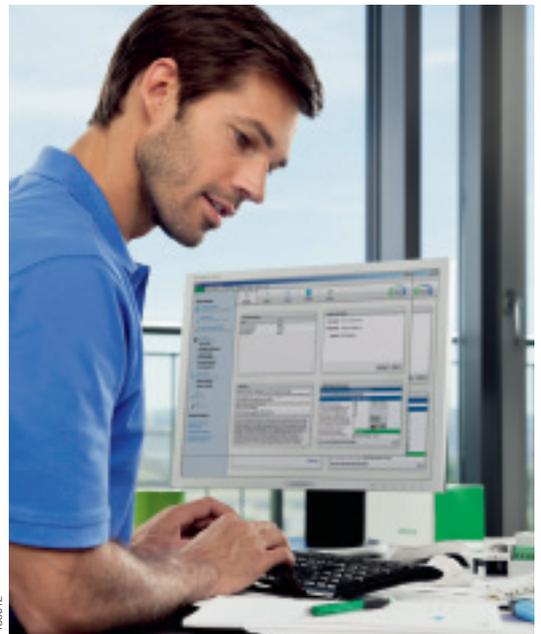


P135680

Flush-mounted movement detector



P135637



P135612

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 only 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.



P135641

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.

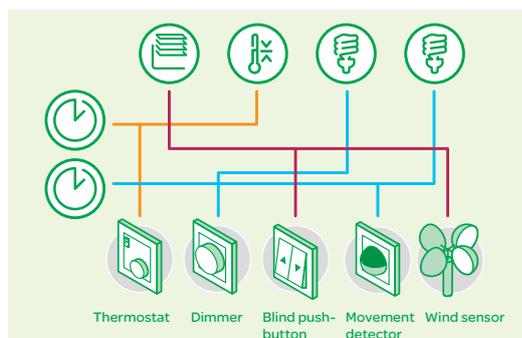


Simply intelligent: an installation bus carries all control signals within a building

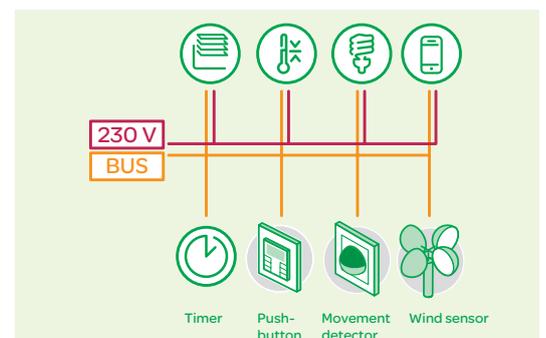
One bus for maximum flexibility

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

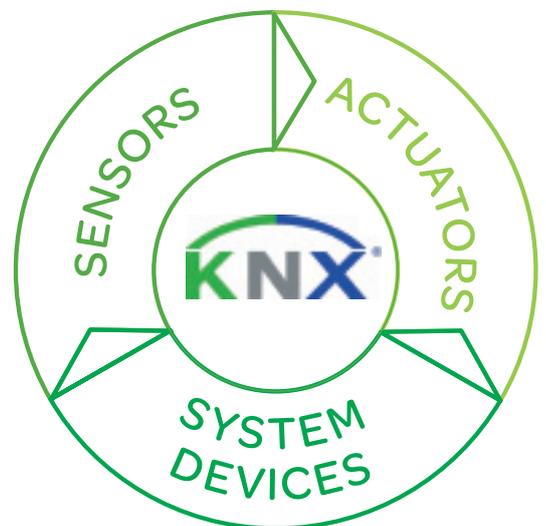
They are needed for the fundamental functioning of the system. They consist of power supply units for generating bus voltage, couplers for connecting bus segments and interfaces for connecting programming devices.

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.





P135613



P135610

System devices (selection)



P123596

Power supply unit



P123575

KNX logic module



P123583

USB interface
REG-K



P123580

Line coupler



P123581

IP Router

Sensors (selection)



P121044

KNX push-button



P121077

Movement detector



P121045

Room temperature
control unit



P123537

Binary input



P115985

Anemometer

Actuators (selection)



P131329

Switch actuator



P126735

Dimming actuator



P123544

Heating actuator



P126739

Blind actuator



P135242

KNX DALI-Gateway

Energy efficiency with KNX

Rising prices are not the only reason that energy is such an important issue. The desire for careful husbanding of resources is the result of increased energy awareness. KNX-based energy efficiency solutions from Schneider Electric permit energy management from a single source.



Schneider Electric offers extensive KNX energy efficiency solutions

Active energy saving

Energy saving solutions intermesh and can be perfectly harmonised with one another in order to put together the right system for every need. KNX systems can be expanded with additional solution components in such a way that even special areas are covered. This allows maximum energy savings while maintaining full comfort!

Measuring consumption and reducing it automatically

The PowerLogic EGX300 from Schneider Electric is an integrated gateway server and collects the consumption data for electricity, water, gas, oil and district heating. These data are stored and shown via the browser.

The KNX Energy Meter makes it possible to record 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.

Actuator channels can be controlled depending on timers, brightness, temperature and movement sensors or meters to achieve additional energy-savings.



Switch actuators with current detection



KNX Energy Meter



PowerLogic EGX300



Roombox



Consumption data display in the web interface of the EGX300

Calculating energy efficiency with the SeeTool

With the SeeTool, making energy efficiency a reality is simple. Right from the planning phase, it indicates specific saving potential in the KNX installation and delivers building control solutions that make full use of the potential.



Energy efficiency implemented with ease – with the SeeTool

Fewer products, more efficient solutions

When suggesting solutions, the SeeTool has access to a selected range of Schneider Electric KNX products. Our basic approach was to attain maximum efficiency using as few components as necessary - not just with a view to energy consumption but to keeping down costs of purchasing and installation too.

Precise results for precise requirements

Based on your data, the SeeTool will provide specific solution proposals – including the components required and circuit diagrams. The potential compared to a conventional installation will be worked out for each solution, providing values that you can use to make plans and calculations.

Demonstrate your competence

The SeeTool will prepare all results in a detailed results report. The solutions, facts and figures the report provides you with will enable you to demonstrate your competence and expertise. This will allow you to save energy and costs for your customers – thereby making yourself priceless.

Certified and tested

The SeeTool has been certified by an independent testing institute, the VTT Technical Research Centre of Finland, which tested the calculations of potential savings and automation solutions on which these are based and confirmed their authenticity.

Free-to-use

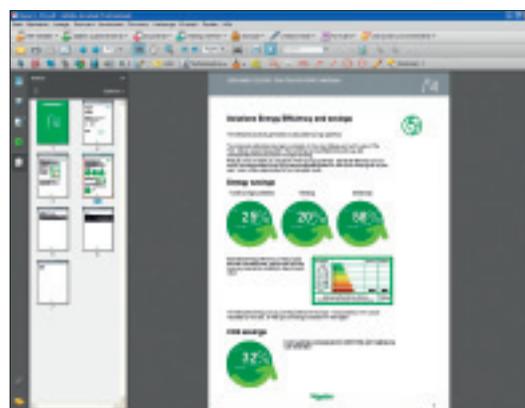
The SeeTool is available free-of-charge and can be used conveniently and simply on a computer.

SeeTool project planning



During inputting

For ease of input, the tool provides preset "sets". The lower area of the program window displays the energy savings in comparison to conventional installations.



Displaying results

When all room parameters have been input and all sets been selected, the program will generate solution-based results and calculate realistic saving potential. This will be prepared as a PDF, which you may print and/or save.

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.



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P135618



Profitability for your customers

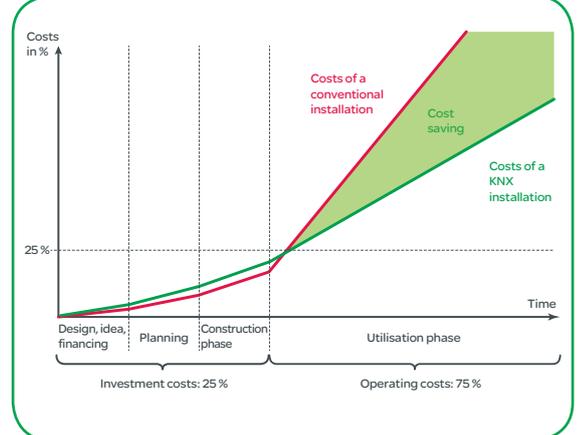
Factors that are decisive for the cost efficiency of a KNX installation include the ongoing operational costs and, in particular, the investment costs, compared to conventional systems. The required range of functions is quite decisive in this case, because KNX will very quickly make itself pay if the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

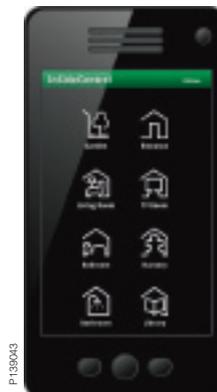
InSideControl



System supported
Apple iOS and Android

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 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 InSideControl IP-Gateway



Fast and easy
upgrade for existing
KNX installations

Click in, connect, configure and your app is ready!

With Schneider Electric InSideControl, mobile building control is a piece of cake. Just connect the KNX InSideControl IP-Gateway in the cabinet to the KNX Bus, install the free InSideControl App, and use the Schneider Electric InSideControl Builder for configuration.



KNX Access Control



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

Your 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.



Innovations

KNX DALI-Gateway



Combining the best of two systems: KNX and DALI connect to one another via the KNX DALI gateway

KNX and DALI: two standards, one efficient combination

The KNX DALI-Gateway connects KNX with electronic ballasts equipped with a DALI interface. The gateway is the DALI master and power supply for the ballasts. It enables up to 64 electronic ballasts in 16 groups to be switched and dimmed and can control 16 light scenes. Integration of DALI lighting control into KNX systems makes operation and maintenance easier thanks to convenient visualisation of operating statuses and faults.



P133242

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.



P133784

KNX Metering Gateway Modbus



Flexible: connect up to 10 Modbus meters to KNX with the KNX Metering Gateway

The easiest way to connect intelligence and efficiency

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. The KNX Metering Gateway is the Modbus RTU master and is supplied via the KNX bus system.



P133928

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		
Connections and displays						
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.

KNX power supply REG-K/160 mA



Version	Art. no.
light grey	MTN684016

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	MTN683816

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	MTN684032

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	MTN683832

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	MTN684064

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	MTN683890

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	MTN683901

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 ±10%

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

Mains frequency: 50-60 Hz ±10%

Output to power supply:

Output voltage: DC 30 V ±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	MTN668990

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.
	MTN668991

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	MTN680204

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.
Device width: 2 modules = approx. 36 mm
Contents: With 2 bus connecting terminals.



KNX/IP router REG-K



Version	Art. no.
light grey	MTN680329

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		Branch terminal, yellow/white	
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Version	Art. no.	Version	Art. no.
red/dark grey	MTN689701	yellow/white	MTN689702

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 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 remote control Distance 2010



Version	Art. no.
black	MTN570222

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.

- for recalling up to ten different room functions for lighting, sunblinds, etc.
- suitable for the articles LON Room Control Unit RCU-101 (System-M und ARTEC), LON Pushbutton MF-IR, RCP-80, RCP-81 and LON Multi-Sensor ILA-22

Battery: 2 microcells (IEC LR 03, AAA)
Range: up to 20 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 with IR receiver and for extension unit operation MTN550591, 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 , Unica , Unica Top , Unica , Unica Top , Unica
Contents: Without battery.



Logic module



KNX Logic module Basic REG-K



Version	Art. no.
light grey	MTN676090

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	MTN6600-0603

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	MTN6503-0201

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	MTN296044
<input type="checkbox"/> polar white, glossy	MTN296019
<input type="checkbox"/> active white, glossy	MTN296025
<input checked="" type="checkbox"/> anthracite	MTN297914
<input type="checkbox"/> aluminium	MTN297960

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	MTN297844
<input type="checkbox"/> polar white	MTN297819
<input type="checkbox"/> aluminium	MTN297860
<input checked="" type="checkbox"/> stainless steel	MTN297846

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.
	MTN681799

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	MTN681829

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



TeleController Plus REG-K



Version	Art. no.
light grey	MTN680790

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	MTN660790

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



KNX/IP router REG-K



Version	Art. no.
light grey	MTN680329

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.

Visualization



KNX InSideControl IP-Gateway



Version	Art. no.
light grey	MTN6500-0113

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 tablet PCs.

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 tablet PCs:

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.

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 mm²

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.

Access control



KNX Access Control eSuite+PC



Version	Art. no.
	MTN6903-6300

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.
	MTN6903-6301

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	MTN6903-6019
black	MTN6903-6014
aluminium	MTN6903-6060

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	MTN6903-6119
black	MTN6903-6114
aluminium	MTN6903-6160

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	MTN6903-6219
black	MTN6903-6214
aluminium	MTN6903-6260

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.

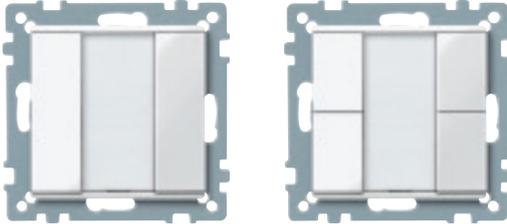
The device has one free potential binary input for door contact, window contacts, bathroom alarm or other needed inputs. On the device there are one low voltage relay for any other freely configurable use as locker open signal.

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	MTN617144
<input type="checkbox"/> polar white, glossy	MTN617119
<input type="checkbox"/> active white, glossy	MTN617125
<input checked="" type="checkbox"/> anthracite	MTN627514
<input checked="" type="checkbox"/> aluminium	MTN627560

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.

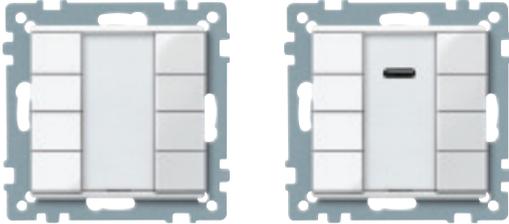
Push-button, 2-gang plus



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

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	
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Version	Art. no.	Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	MTN617444	<input checked="" type="checkbox"/> white, glossy	MTN617544
<input type="checkbox"/> polar white, glossy	MTN617419	<input type="checkbox"/> polar white, glossy	MTN617519
<input type="checkbox"/> active white, glossy	MTN617425	<input type="checkbox"/> active white, glossy	MTN617525
<input checked="" type="checkbox"/> anthracite	MTN627814	<input checked="" type="checkbox"/> anthracite	MTN627914
<input checked="" type="checkbox"/> aluminium	MTN627860	<input checked="" type="checkbox"/> aluminium	MTN627960

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 remote control Distance 2010 MTN570222
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	
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Version	Art. no.	Version	Art. no.
polar white	MTN618319	polar white	MTN618419
silver	MTN618320	silver	MTN618420

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	MTN6212-0344
<input type="checkbox"/> polar white, glossy	MTN6212-0319
<input type="checkbox"/> active white, glossy	MTN6212-0325
<input checked="" type="checkbox"/> anthracite	MTN6212-0414
<input type="checkbox"/> aluminium	MTN6212-0460

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	MTN6214-0344
<input type="checkbox"/> polar white, glossy	MTN6214-0319
<input type="checkbox"/> active white, glossy	MTN6214-0325
<input checked="" type="checkbox"/> anthracite	MTN6214-0414
<input type="checkbox"/> aluminium	MTN6214-0460

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 remote control Distance 2010 MTN570222

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	MTN619144
<input type="checkbox"/> polar white, glossy	MTN619119
<input type="checkbox"/> active white, glossy	MTN619125
<input checked="" type="checkbox"/> anthracite	MTN625114
<input checked="" type="checkbox"/> aluminium	MTN625160

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	MTN619344
<input type="checkbox"/> polar white, glossy	MTN619319
<input type="checkbox"/> active white, glossy	MTN619325
<input checked="" type="checkbox"/> anthracite	MTN625414
<input checked="" type="checkbox"/> aluminium	MTN625460

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	MTN619444
<input type="checkbox"/> polar white, glossy	MTN619419
<input type="checkbox"/> active white, glossy	MTN619425
<input checked="" type="checkbox"/> anthracite	MTN625514
<input checked="" type="checkbox"/> aluminium	MTN625560

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.
	MTN625199

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	MTN619244
<input type="checkbox"/> polar white, glossy	MTN619219
<input type="checkbox"/> active white, glossy	MTN619225
<input checked="" type="checkbox"/> anthracite	MTN625214
<input checked="" type="checkbox"/> aluminium	MTN625260

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	MTN619544
<input type="checkbox"/> polar white, glossy	MTN619519
<input type="checkbox"/> active white, glossy	MTN619525
<input checked="" type="checkbox"/> anthracite	MTN625614
<input checked="" type="checkbox"/> aluminium	MTN625660

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	MTN619644
<input type="checkbox"/> polar white, glossy	MTN619619
<input type="checkbox"/> active white, glossy	MTN619625
<input checked="" type="checkbox"/> anthracite	MTN625714
<input checked="" type="checkbox"/> aluminium	MTN625760

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	MTN619744
<input type="checkbox"/> polar white, glossy	MTN619719
<input type="checkbox"/> active white, glossy	MTN619725
<input checked="" type="checkbox"/> anthracite	MTN625814
<input checked="" type="checkbox"/> aluminium	MTN625860

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

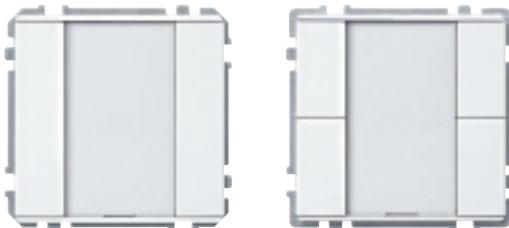


Version	Art. no.
	MTN625299

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

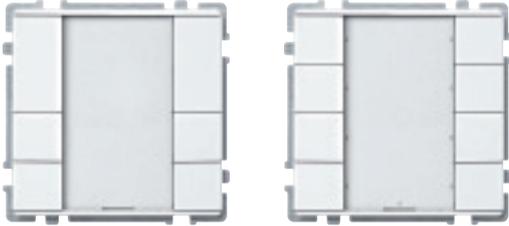


Push-button, 1-gang plus		Push-button, 2-gang plus	
Version	Art. no.	Version	Art. no.
<input checked="" type="checkbox"/> white, glossy	MTN628044	<input checked="" type="checkbox"/> white, glossy	MTN628144
<input type="checkbox"/> polar white, glossy	MTN628019	<input type="checkbox"/> polar white, glossy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

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	MTN628244	<input checked="" type="checkbox"/> white, glossy	MTN628344
<input type="checkbox"/> polar white, glossy	MTN628219	<input type="checkbox"/> polar white, glossy	MTN628319
<input checked="" type="checkbox"/> aluminium	MTN628260	<input checked="" type="checkbox"/> aluminium	MTN628360
<input checked="" type="checkbox"/> stainless steel	MTN628246	<input checked="" type="checkbox"/> stainless steel	MTN628346
<p>For Artec, Trancent, 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.</p>		<p>For Artec, Trancent, 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.</p>	

Push-button



Push-button, 4-gang plus with IR receiver



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

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.

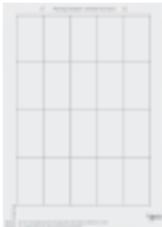
KNX software functions: Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator,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

Accessories: Labelling sheets for push-button plus MTN617819

Transmitter: IR remote control Distance 2010 MTN570222

Contents: With protective hood for plaster.

With bus connecting terminal.



Labelling sheets for push-button plus



Version	Art. no.
	MTN617819

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.

MTN628091

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	MTN6212-4044
<input type="checkbox"/> polar white, glossy	MTN6212-4019
<input type="checkbox"/> aluminium	MTN6212-4060
<input type="checkbox"/> stainless steel	MTN6212-4146

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	MTN6214-4044
<input type="checkbox"/> polar white, glossy	MTN6214-4019
<input type="checkbox"/> aluminium	MTN6214-4060
<input type="checkbox"/> stainless steel	MTN6214-4146

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 remote control Distance 2010 MTN570222

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	MTN626144
<input type="checkbox"/> polar white, glossy	MTN626119
<input type="checkbox"/> aluminium	MTN626160
<input type="checkbox"/> varnished stainless steel	MTN626146

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	MTN626444
<input type="checkbox"/> polar white, glossy	MTN626419
<input type="checkbox"/> aluminium	MTN626460
<input type="checkbox"/> varnished stainless steel	MTN626446

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	MTN626544
<input type="checkbox"/> polar white, glossy	MTN626519
<input type="checkbox"/> aluminium	MTN626560
<input type="checkbox"/> varnished stainless steel	MTN626546

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.
	MTN626199

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	MTN626244
<input type="checkbox"/> polar white, glossy	MTN626219
<input type="checkbox"/> aluminium	MTN626260
<input type="checkbox"/> varnished stainless steel	MTN626246

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	MTN626644
<input type="checkbox"/> polar white, glossy	MTN626619
<input type="checkbox"/> aluminium	MTN626660
<input type="checkbox"/> varnished stainless steel	MTN626646

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	MTN626744
<input type="checkbox"/> polar white, glossy	MTN626719
<input type="checkbox"/> aluminium	MTN626760
<input type="checkbox"/> varnished stainless steel	MTN626746

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	MTN626844
<input type="checkbox"/> polar white, glossy	MTN626819
<input type="checkbox"/> aluminium	MTN626860
<input type="checkbox"/> varnished stainless steel	MTN626846

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

KNX push-button module, 2-gang

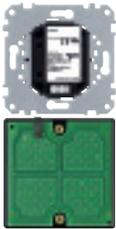


Version	Art. no.
	MTN626299

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 Tracent



Control electronics, 1- to 4-gang



Version	Art. no.
	MTN6164-4600

For the Tracent range.
 The control electronics can be programmed as a 1-, 2- or 4-gang sensor cover.
 With orientation LED. Operation of the glass cover is acknowledged with a short tone.
 With integrated bus coupler. The bus is connected using a bus connecting terminal.
KNX software functions: The covers facing each other can either be parameterised as a pair (dual-surface) or as individual buttons (single-surface). There are a total of 12 parameterisation options available.
 Single-surface: dimming, toggling, pulse edges, temperature, scenes.
 Dual-surface: blind control, switching, dimming, toggling, pulse edges, temperature, scene.
To be completed with: Glass sensor cover, 1-gang Tracent MTN5691..., Glass sensor cover, 2-gang Tracent MTN5692..., Glass sensor cover, 3-gang Tracent MTN5693..., TRAN-CENT glass sensor cover, 1-gang with glass socket-outlet cover, 1-gang Tracent MTN5695..
Contents: With bus coupler.
 With bus connecting terminal.

Push-button



Glass sensor cover, 1-gang		Tracent frame, 1-gang	
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Version	Art. no.	Version	Art. no.
transparent	MTN569100	aluminium	MTN482160
satinated	MTN569101		

For switching and dimming lighting systems, controlling roller shutters and scenes (KNX). The glass sensor cover reacts to the lightest of touches. Control electronics evaluate the signal and forward it to the switch, dimming or roller shutter insert or bus coupler.

To be completed with: Control electronics, 1-gang Tracent MTN569090, Two-circuit control electronics Tracent MTN569091, Roller shutter control electronics Tracent MTN569092, Control electronics, 1- to 4-gang MTN6461-4600, Blanking cover for labelling purposes Tracent MTN569000

Accessories: Cover foil for glass sensor cover Tracent MTN569190

To be completed with: Tracent frame, 1-gang MTN482160

Contents: With cover foil, 1-gang and screws.

For vertical and horizontal installation.



Glass sensor cover, 2-gang		Tracent frame, 2-gang	
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Version	Art. no.	Version	Art. no.
transparent	MTN569200	aluminium	MTN482260
satinated	MTN569201		

For switching and dimming lighting systems, controlling roller shutters and scenes (KNX). The glass sensor cover reacts to the lightest of touches. Control electronics evaluate the signal and forward it to the switch, dimming or roller shutter insert or bus coupler.

To be completed with: Control electronics, 1-gang Tracent MTN569090, Two-circuit control electronics Tracent MTN569091, Roller shutter control electronics Tracent MTN569092, Control electronics, 1- to 4-gang MTN6461-4600, Blanking cover for labelling purposes Tracent MTN569000

Accessories: Cover foil for glass sensor cover Tracent MTN569290

To be completed with: Tracent frame, 2-gang MTN482260

Contents: With cover foil, 2-gang and screws.

For vertical and horizontal installation.

Push-button



Glass sensor cover, 3-gang		Tracent frame, 3-gang	
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Version	Art. no.	Version	Art. no.
transparent	MTN569300	aluminium	MTN482360
satinated	MTN569301		

For switching and dimming lighting systems, controlling roller shutters and scenes (KNX). The glass sensor cover reacts to the lightest of touches. Control electronics evaluate the signal and forward it to the switch, dimming or roller shutter insert or bus coupler.

To be completed with: Control electronics, 1-gang Tracent MTN569090, Two-circuit control electronics Tracent MTN569091, Roller shutter control electronics Tracent MTN569092, Control electronics, 1- to 4-gang MTN6461-4600, Blanking cover for labelling purposes Tracent MTN569000

Accessories: Cover foil for glass sensor cover Tracent MTN569390

To be completed with: Tracent frame, 3-gang MTN482360

Contents: With cover foil, 3-gang and screws.

For vertical and horizontal installation.



Cover foil for glass sensor cover	
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Version	Art. no.
for 569100/01	MTN569190
for 569200/01	MTN569290
for 569300/01	MTN569390

For individual labelling of the Tracent glass sensor covers with text or symbols.

For laser printers

Contents: For glass sensor cover, 1-gang: 1 sheet for 6 products. For glass sensor cover, 2-gang: 1 sheet for 3 products. For glass sensor cover, 3-gang: 1 sheet for 2 products.

Push-button

Push-buttons Altira



KNX push-button 1-gang



Version	Art. no.
■ white	ALB45150
■ aluminium	ALB46150

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	ALB45151
■ aluminium	ALB46151

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	ALB45152
■ aluminium	ALB46152

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 remote control Distance 2010 MTN570222
Contents: With bus connecting terminal.

Push-button

Push-buttons Unica



KNX push-button 1-gang



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

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	MGU3.531.18
<input type="checkbox"/> ivory	MGU3.531.25

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	MGU3.532.18
<input type="checkbox"/> ivory	MGU3.532.25

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 remote control Distance 2010 MTN570222
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	MGU5.530.18	<input type="checkbox"/> white	MGU5.531.18
<input type="checkbox"/> ivory	MGU5.530.25	<input type="checkbox"/> ivory	MGU5.531.25

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.

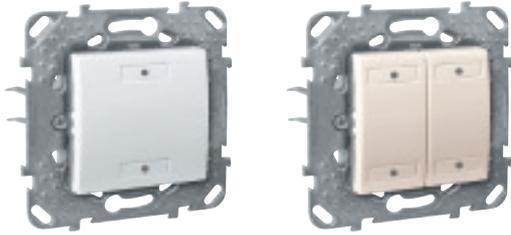
2 modules
In Unica design.
KNX-push-button with 4 buttons and 4 blue status LEDs. The status LED is located under the symbol window which can be taken off.
With integrated bus coupler. The bus is connected using a bus connecting terminal.
KNX software functions: Switching, toggling, dimming (single/dual-surface), 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	MGU5.532.18
<input type="checkbox"/> ivory	MGU5.532.25

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 remote control Distance 2010 MTN570222
Contents: With fixing frame.
With bus connecting terminal.

Push-button



KNX push-button 1-gang

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

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	MGU50.531.18
<input type="checkbox"/> ivory	MGU50.531.25

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	MGU50.532.18
<input type="checkbox"/> ivory	MGU50.532.25

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 remote control Distance 2010 MTN570222
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	MGU3.530.30
■ graphite	MGU3.530.12

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	MGU3.531.30
■ graphite	MGU3.531.12

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	MGU3.532.30
■ graphite	MGU3.532.12

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 remote control Distance 2010 MTN570222
Contents: With bus connecting terminal.

Push-button



KNX push-button 1-gang



Version	Art. no.
■ aluminium	MGU5.530.30
■ graphite	MGU5.530.12

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	MGU5.531.30
■ graphite	MGU5.531.12

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.

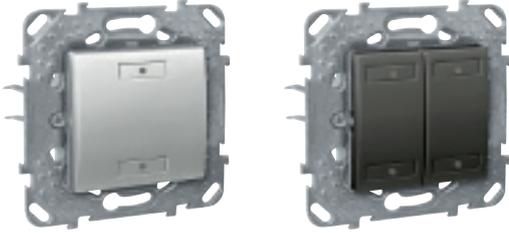
KNX 1-gang push-button with IR receiver



Version	Art. no.
■ aluminium	MGU5.532.30
■ graphite	MGU5.532.12

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 remote control Distance 2010 MTN570222
Contents: With fixing frame.
With bus connecting terminal.

Push-button



KNX push-button 1-gang

	
Version	Art. no.
■ aluminium	MGU50.530.30
■ graphite	MGU50.530.12

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	MGU50.531.30
■ graphite	MGU50.531.12

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	MGU50.532.30
■ graphite	MGU50.532.12

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 remote control Distance 2010 MTN570222
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	
Thresholds	—		—	
Maximum line length	7.5 m		50 m	
Software				
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	MTN670802

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:

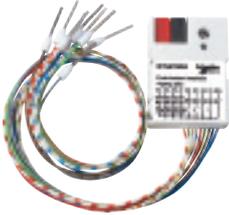
Contact voltage: < 3 V (SELV)

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	MTN670804

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	MTN644492

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	MTN644592

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	MTN644892

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	MTN644792

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	MTN644992

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: ≤ 40 V
1 signal: ≥ 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	MTN644692

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	
				
Article number	MTN6307..	MTN6308..	MTN6309..	
Design	—	—	—	
Use cases (examples)	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	
Installation site	Ceiling mounting, indoor	Ceiling mounting, indoor	Ceiling mounting, indoor	
Protection type	IP 20	IP 20	IP 20	
Recommended mounting height	2.5 m	2.5 m	2.5 m	
Angle of detection	360°	360°	360°	
Range (right, left / front)	7 m radius	7 m radius	7 m radius	
Number of levels	6	6	6	
Number of zones	136	136	136	
Number of switching segments	544	544	544	
Number of movement sensors	4	4	4	
Light sensor	10-2000 Lux	10-2000 Lux	10-2000 Lux	
Staircase timer adjustable on the device	—	—	—	
Staircase timer adjustable in the ETS	1 s - 255 h	1 s - 255 h	1 s - 255 h	
Software				
Light regulation for a permanent desired brightness	—	—	■	
Number of movement/presence blocks	2	5	5+1 (1 for light control)	
Number of functions per block	4	4	4	
Functions per block				
■ 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	—	■	■	
Brightness value correction	—	■	■	
Cyclical sending of the determined brightness value	■	■	■	
Cyclical sending of brightness value via 2 bytes object	■	■	■	
Brightness threshold adjustable via object	—	■	■	
Master/Slave function	—	■	■	
Monitoring function (cyclical sending)	—	■	■	
Dead time adjustable (noise reduction)	—	—	—	
IR receiver up to 10 channels				
■ 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
	MTN6304.., MTN6306..	MTN6317.., MTN6327..	MTN6316.., MTN6326..	MTN6318..	MTN6325..
	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		
			
Article number	MGU3.533.18/25	MGU5.533.18/25	MGU50.533.18/25
Design	Unica		
Use cases (examples)	Corridors, private areas, public areas with limited access Lighting, blinds, heating control		
Installation site	Flush mounting, indoor		
Protection type	IP 20		
Recommended mounting height	1.10 m		
Angle of detection	180°		
Range (right, left / front)	8 m Radius		
Number of levels	1		
Number of zones	14		
Number of switching segments	—		
Number of movement sensors	1		
Light sensor	10-2000 Lux		
Staircase timer adjustable on the device	1 s - 8 min		
Staircase timer adjustable in the ETS	1 s - 255 h		
Software			
Light regulation for a permanent desired brightness	—		
Number of movement/presence blocks	5		
Number of functions per block	4		
Functions per block	<ul style="list-style-type: none"> ■ Output telegrams 1 bit, 1 byte, 2 byte ■ Staircase timer ■ Self-adjusting staircase timer ■ Sensitivity adjustable ■ Range adjustable ■ Brightness treshold ■ Locking function ■ Sensitivity and range of the movement sensors sector-specifically adjustable 		
Brightness value correction	■		
Cyclical sending of the determined brightness value	—		
Cyclical sending of brightness value via 2 bytes object	■		
Brightness threshold adjustable via object	—		
Master/Slave function	■		
Monitoring function (cyclical sending)	■		
Dead time adjustable (noise reduction)	■		
IR receiver up to 10 channels	<ul style="list-style-type: none"> ■ IR functions with KNX telegrams ■ Configuration of brightness treshold, staircase timer and range 		

Movement detector

Movement detectors



KNX ARGUS 220



Version	Art. no.
polar white	MTN632519
dark brazil	MTN632515
aluminium	MTN632569

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.

Movement detector

Movement detectors System M



KNX ARGUS 180, flush-mounted



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

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	MTN631744
<input type="checkbox"/> polar white, glossy	MTN631719
<input type="checkbox"/> active white, glossy	MTN631725
<input checked="" type="checkbox"/> anthracite	MTN632714
<input checked="" type="checkbox"/> aluminium	MTN632760

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 checked="" type="checkbox"/> white, glossy	MTN631844
<input type="checkbox"/> polar white, glossy	MTN631819
<input type="checkbox"/> aluminium	MTN631860
<input type="checkbox"/> varnished stainless steel	MTN631846

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	ALB45153
<input type="checkbox"/> aluminium	ALB46153

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	MGU3.533.18
<input type="checkbox"/> ivory	MGU3.533.25

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	MGU5.533.18
<input checked="" type="checkbox"/> ivory	MGU5.533.25

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	MGU50.533.18
<input checked="" type="checkbox"/> ivory	MGU50.533.25

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	MGU3.533.30
■ graphite	MGU3.533.12

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	MGU5.533.30
■ graphite	MGU5.533.12

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	MGU50.533.30
■ graphite	MGU50.533.12

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	MTN630719
aluminium	MTN630760

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	MTN630860
polar white	MTN630819

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	MTN630919
aluminium	MTN630960

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 remote control Distance 2010 MTN570222

Contents: With bus connecting terminal and supporting plate.



Surface-mounted housing for ARGUS Presence



Version	Art. no.
polar white	MTN550619

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	MTN630444
<input type="checkbox"/> polar white, glossy	MTN630419
<input type="checkbox"/> active white, glossy	MTN630425
<input checked="" type="checkbox"/> anthracite	MTN630614
<input type="checkbox"/> aluminium	MTN630660

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	MTN663991

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 CO₂, humidity and temperature sensor AP



Version	Art. no.
polar white	MTN6005-0001

The device is a combined sensor for CO₂, 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 CO₂ content of the air is a verifiable indicator of the ambient air quality. The higher the CO₂ 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 CO₂ 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, CO₂: 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	MTN663990

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.
	MTN663992

To be completed with: KNX Basic weather station MTN663990

Other sensors



Weather station REG-K/4-gang



Version	Art. no.
light grey	MTN682991

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	MTN663692

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	MTN663591

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 mm²

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	MTN663592

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 mm²

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.
	MTN663595	light grey	MTN663596

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.

Output: 0 V dry, 10 V rain
External power supply:
Voltage: 24 V DC (15-30 V DC)
Power consumption: approx. 10 mA (without heating)
Heating: 24 V DC/AC max. 4.5 W
General specifications:
Type of protection: IP 65
Incoming cable: 3 m, UYY 5 x 0.25 mm²
Fixing method: Mounting bracket
Mounting position: approx. 45°
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 holder for installing the sensor on walls and masts.

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.

Measuring range: -30° C to +70° C linear
Output: 0 ... 10 V short-circuit-proof
External power supply:
Voltage: 24 V DC (15-30 V DC)
Power consumption: approx. 3 mA
General specifications:
Incoming cable: using PG7 screw fitting
Recommended cable: 3 x 0.25 mm²
Type of protection: IP 65
Dimensions: 58 x 35 x 64 (W x H x D)
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

Other sensors



Brightness sensor		Twilight sensor	
			
Version	Art. no.	Version	Art. no.
light grey	MTN663593	light grey	MTN663594
<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>Measuring range: 0 to 60,000 lux, linear Output: 0 ... 10 V short-circuit-proof External power supply: Voltage: 24 V DC (15-30 V DC) Power consumption: approx. 5 mA General specifications: Incoming cable: using PG7 screw fitting Recommended cable: 3 x 0.25 mm² Type of protection: IP 65 Dimensions: 58 x 35 x 64 (W x H x D) 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</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>Measuring range: 0 to 255 lux, linear Output: 0 ... 10 V short-circuit-proof External power supply: Voltage: 24 V DC (15-30 V DC) Power consumption: approx. 5 mA General specifications: Incoming cable: using PG7 screw fitting Recommended cable: 3 x 0.25 mm² Type of protection: IP 65 Dimensions: 58 x 35 x 64 (W x H x D) 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</p>	



Analogue input REG-K 4-gang		Analogue input module REG/4-gang	
			
Version	Art. no.	Version	Art. no.
light grey	MTN682191	light grey	MTN682192
<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>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 Continuity checking: 4 ... 20 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, 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.</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>Auxiliary voltage: AC 24 V (+/-10 %) Rating: max. 4 VA Analogue inputs: 4 Current interface: 0 ... 20 mA, 4 ... 20 mA Voltage interface: 0 ... 1 V, 0 ... 10 V (DC) A/D conversion: 14 bit Outputs: DC 24 V, 100 mA Continuity checking: 4 ... 20 mA Device width: 4 modules = approx. 72 mm In KNX, to be completed with: Weather station REG-K/4-gang MTN682991, Analogue input REG-K 4-gang MTN682191, Power supply REG, AC 24 V/1 A MTN663529 Accessories: 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 sub-bus jumper.</p>	

Time switch



KNX Year Time Switch REG-K/8/800



Version	Art. no.
	MTN6606-0008

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.
	MTN6606-0071

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.
	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.
	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 cable.

Other sensors



Year time switch REG-K/4/324



Version	Art. no.
light grey	MTN677129

Quartz-controlled four-channel year time switch. The device can be programmed manually on the device itself or on the PC using the 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.

- 324 non-volatile switching times for selectable daily, weekly and date commands, impulse commands
- 1x switching operation for holiday/public holidays
- 10 weekly programs for holidays and public holidays per channel
- Free formation of channel and weekday blocks
- Manual switching is possible via preselection and permanent switches
- Random program can be activated
- Operation with mains connection possible
- High reserve power
- Quartz-controlled
- Automatic changeover between summer and winter time

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. Send time and date. Scene. Priority.

Operating voltage: Bus, DC 24 V

Accuracy: $\leq \pm 1$ s/day

Reserve power: 1.5 years at full operability. Data backup in disconnected state approx. 40 years (EEPROM)

Type of protection: IP 20

Device width: 6 modules = approx. 105 mm

Accessories: OBELISK software MTN615034, Memory chip for year time switches MTN668092

Other sensors



Year time switch REG-K/4/324 DCF-77



Version	Art. no.
light grey	MTN677029

4-channel year time switch with power supply unit and integrated DCF receiver. To be completed with the DCF-77 antenna for radio-controlled time synchronisation. Time and date can be issued on the bus. The device can be programmed manually on the device itself or on the PC using the 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.

- 324 non-volatile switching times for selectable daily, weekly and date commands, impulse commands
- 1x switching operation for holiday/public holidays
- 10 weekly programs for holidays and public holidays per channel
- Free formation of channel and weekday blocks
- Manual switching is possible via preselection and permanent switches
- Random program can be activated
- High reserve power
- Automatic changeover between summer and winter time
- Automatic time synchronisation with DCF possible

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. Send time and date. Scene. Priority.

Operating voltage: Bus, DC 24 V

AC 230 V ±10%, 50-60 Hz for antenna

Accuracy: ≤ ±1s/day

Reserve power: 1.5 years at full operability. Data backup in disconnected state approx. 40 years (EEPROM)

Type of protection: IP 20

Device width: 6 modules = approx. 105 mm

In KNX, to be completed with: DCF77 antenna MTN668091

Accessories: OBELISK software MTN615034, Memory chip for year time switches MTN668092



KNX timer REG-K



Version	Art. no.
light grey	MTN677290

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

Other sensors



DCF77 antenna



Version	Art. no.
light grey	MTN668091

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: Year time switch REG-K/4/324 DCF-77 MTN677029, KNX timer REG-K MTN677290

Contents: With mounting bracket.



OBELISK software



Version	Art. no.
	MTN615034

Software for convenient entry of the switching times for the year time switches REG-K/4/324 on a PC. With adapter for the serial interface to load the program to the memory chip.

System requirements:

IBM-compatible, 386 or higher, Windows 95, 98

In KNX, to be completed with: Year time switch REG-K/4/324 MTN677129, Year time switch REG-K/4/324 DCF-77 MTN677029

Accessories: Memory chip for year time switches MTN668092

Contents: With adapter and a memory chip.



Memory chip for year time switches



Version	Art. no.
	MTN668092

EEPROM memory chip for 324 switching times for programming the year time switch REG K/4/324. The program which is created with the software is loaded into the memory chip and can then be imported into one or several year time switches.

In KNX, to be completed with: Year time switch REG-K/4/324 MTN677129, Year time switch REG-K/4/324 DCF-77 MTN677029, OBELISK software MTN615034

Other sensors

	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			
Article number							
	MTN649908	MTN649912	MTN646808	MTN649202	MTN649204	MTN649208	MTN649212
Number of switch contacts	16	24	8	2	4	8	12
Device width	8 TE	12 TE	4 modules	2.5 modules	4 modules	4 modules	6 modules
Manual mode	—		—	—			
<ul style="list-style-type: none"> ■ Mechanical ■ Electrical ■ Reset by manual mode triggered actions 	■ (lockable)		—	■ (lockable)			
Connecting terminal (consumer load)	Plug-in screw terminals		Plug-in screw terminals	Plug-in screw terminals			
Nominal voltage, AC, 50-60 Hz	AC 100-240 V		AC 230 V	AC 230 V			
Nominal current	10 A, $\cos\phi = 0,6$		6 A, $\cos\phi = 0,6$	10 A, $\cos\phi = 1 / 10 A, \cos\phi = 0,6$			
Connection power max. at AC 230 V	<ul style="list-style-type: none"> ■ Incandescent lamps 2000 W ■ Halogen lamps 1700 W ■ Capacitive load 105 μF ■ Fluorescent lamps 1800 W uncompensated, 1000 W parallel-compensated 		<ul style="list-style-type: none"> 1380 W 1380 W 105 μF 1000 VA 	<ul style="list-style-type: none"> 2000 W 1700 W 105 μF 1800 W uncompensated, 1000 W parallel-compensated 			
DC power supply	not allowed		not allowed	not allowed			
Software							
ON/OFF delay	■		■	■			
Staircase lighting function with/without manual OFF	■		■	■			
<ul style="list-style-type: none"> ■ Retriggerable ■ Fix (for all push-buttons the same time) ■ Variable (for all push-buttons different times) ■ Retriggerable and adding ■ Retrigger to the higher time ■ Prewarn 	—		—	—			
Flashing	—		■	—			
Make/Break contact adjustable	■		■	■			
Changeover contact adjustable	—		■	—			
Status/Status feedback	■		■	■			
<ul style="list-style-type: none"> ■ Active ■ Passive ■ Manual mode: Identify and acknowledge / Reset ■ Delayed per device / Delayed per channel 	■ / — — / ■		— / — — / —	■ / — — / —			
Behaviour of bus voltage failure / bus voltage recovery	■ / ■		■ / ■	■ / ■			
Scenes	5		8	5			
<ul style="list-style-type: none"> ■ Sending delay 	—		—	—			
Higher priority functions	■ Disable function ■ Logic function or priority function		■ Disable function ■ Logic function or priority function	■ Disable function ■ Logic function or priority function			
Disable function	■		■	■			
<ul style="list-style-type: none"> ■ Behaviour of locking after bus voltage recovery 	■		■	■			
Logic function	■		■	■			
<ul style="list-style-type: none"> ■ Logic operation ■ Value comparison / logic / gate function / filter / time delay 	— / — / — / — / —		— / — / — / — / —	— / — / — / — / —			
Central function	■		■	■			
<ul style="list-style-type: none"> ■ Time delay / Save changes 	— / —		— / —	— / —			
Safety function	—		—	—			
Line monitoring (sending live signal)	—		—	—			

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 μ F 2000 VA				3600 W 2500 W 200 μ F 2500 VA				3600 W 2500 W 200 μ F 2500 VA			
not allowed				not allowed				Purely resistive loads allowed, DC 12-24 V, +10 %, 0,1 - 16 A			
—				■				■			
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											
											

	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			
							
Article number	MTN649908	MTN649912	MTN646808	MTN649202	MTN649204	MTN649208	MTN649212
Current detection							
<ul style="list-style-type: none"> ■ AC/DC ■ Display energy consumption* ■ Several limit monitorings ■ Switch counter ■ Hours counter ■ Combined counter (Switch and hour counter with limit monitoring) 	—	—	—	—	—	—	—
Heating function							
<ul style="list-style-type: none"> ■ Switching ON/OFF (2-point valve) ■ Continuous (PWM) ■ Cyclic surveillance of control value ■ Locking in summer/winter mode ■ Collected response „All valves closed“ ■ Current detection ■ Valve protection cyclical / with telegram ■ Valve protection feedback / status ■ Behaviour when bus voltage fails / when bus voltage returns 	—	—	—	—	—	—	—
	— / —	— / —	— / —	— / —	— / —	— / —	— / —

Switch actuators



Switch actuator, flush-mounted/230/16



Version	Art. no.
polar white	MTN629993

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 μF

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 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



Switch actuator REG-K/2x230/10 with manual mode



Version	Art. no.
light grey	MTN649202

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 μF

Device width: 2.5 modules = approx. 45 mm

Contents: With bus connecting terminal and cable cover.



KNX Switch Actuator Basic REG-K/2x16 A with manual mode



Version	Art. no.
	MTN6700-0002

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 μF

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	MTN647393

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 μF

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	MTN647395

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 μF

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 ± 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	MTN649204

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 μF

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.
	MTN6700-0004

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 μF

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 μF

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	MTN647595

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 μF

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	MTN646808

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 μF

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	MTN649208

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 μF

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.
	MTN6700-0008

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 μF

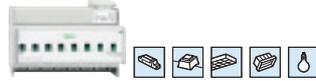
Device width: 8 modules = approx. 144 mm

Contents: With bus connecting terminal and cable cover.

Switch actuators



Switch actuator REG-K/8x230/16 with manual mode



Version	Art. no.
light grey	MTN647893

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 $\cos\phi = 0,6$

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 μF

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	MTN647895

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 μF

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 ± 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	MTN649212

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 μF

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 μF
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	MTN648493

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 μF

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	MTN648495

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 μF

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 ± 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	
				
Article number	MTN646704	MTN648704	MTN649704	
Number of channels	4	4	4	
Device width	4 modules	4 modules	4 modules	
Manual mode push-buttons	—	■	■	
Connecting terminal (consumer load)	Plug-in screw terminals	Plug-in screw terminals	Plug-in screw terminals	
Nominal voltage, AC, 50-60 Hz	AC 230 V	—	AC 100-240 V	
Nominal voltage, DC	—	DC 24 V, ±10 %	—	
Nominal current	6 A, cosφ = 0,6	6 A	10 A, cosφ = 0,6	
Auxiliary power (optional)	—	—	—	
Software				
Configuration switching or blind	—	—	—	
Defining blind type	■	■	—	
Slat functionality	■	■	—	
Calibration (reference movement)	■	■	■	
Movement range limit	■	■	■	
Pause on reverse on change in direction	■	■	■	
Extended drive parameters	■	■	■	
Control by				
■ manual mode via the push-buttons of the actuator	—	■	■	
■ automatic objects or preset objects	■	■	■	
■ manual operation via objects	■	■	■	
Manual mode enable/disable when bus voltage fails	—	—	—	
Locking manual operation via objects	■	■	■	
Weather alarm functions				
■ 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	■	■	■	
Alarm functions				
■ Behavior at the start/end of the alarm	■	■	■	
Set the order of priority for higher-level functions (alarm, weather alarm, locking, movement range)	■	■	■	
Scenes	4	5	5	
Disable function				
■ Behavior at the start/end of the locking	■	■	■	
Behaviour of bus voltage failure / bus voltage recovery / download	■ / ■ / ■	■ / ■ / ■	■ / ■ / ■	
Status messages				
■ Hight	■	■	■	
■ Slat	■	■	—	
■ Automatic	■	■	■	
■ Drive locking or movement range limit	■	■	■	

Blind/switch actuators



Blind/switch actuator REG-K/8x/16x/10 with manual mode



Version	Art. no.
light grey	MTN649908

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 μF

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	MTN649912

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 μF

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	MTN649802

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 $\pm 10\%$ **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 actuator REG-K/4x24/6 with manual mode



Version	Art. no.
light grey	MTN648704

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 $\pm 10\%$ **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	MTN646704

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	MTN649704

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	MTN649804

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 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 $\pm 10\%$
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 actuator REG-K/8x/10 with manual mode



Version	Art. no.
light grey	MTN649808

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 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)

KNX

Overview rail mounted devices

dimming actuators

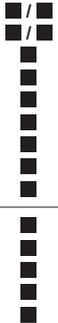
	Dimming actuator REG-K/2x230/300 W	Universal dimming actuator REG-K/4x230/ 150 W	
			
Article number	MTN646630	MTN649315	
Number of channels	2	4	
Device width	6 modules	6 modules	
Manual operation push-buttons	—	■	
Connecting terminal (consumer load)	Plug-in screw terminals	Plug-in screw terminals	
Nominal voltage	AC 230 V, 50 Hz	AC 220-230 V, 50/60 Hz	
Nominal power at 230 V			
■ Configuration of 4 channels	—	4 x 150 W/VA	
■ Configuration of 3 channels	—	1x300 W/VA, 2x150 W/VA	
■ Configuration of 2 channels	2x300 W/VA	2x300 W/VA	
■ Configuration of 1 channel	—	1x300 W/VA	
Minimum resistive load	25 W	25 W	
Minimum resistive-inductive load	25 VA	50 VA	
Minimum resistive-capacitive load	—	50 VA	
Automatic load detection	—	■	
Connection of different Phases	—	—	
Input for extension unit operation, lockable (switching, staircase lighting function)	—	AC 230 V, 50/60 Hz	
Software			
Manual operation enable/disable via bus	—	■	
Dimming function			
■ Minimum dimming value / Maximum dimming value	■ / —	■ / ■	
■ Starting behaviour / Memory function	■ / ■	■ / ■	
■ Dimming object switches channel	Only OFF	■	
■ Value object switches channel	—	■	
■ Same dimming time at central function and scenes	—	■	
■ Delay times for ON and OFF	—	■	
■ Base dimming curve with 3 thresholds	1 Threshold at 50 %	■	
■ Dimming time reduction via object	—	■	
■ 4 preconfigured dimming sets for the dimming time reduction*	—	■	
Staircase lighting function with/without manual OFF	—	■	
■ Retriggerable	—	■	
■ Not retriggerable	—	■	
■ Time addable	—	■	
■ Prewarn	—	■	
Scenes (1 byte)	—	8	
Central function	—	■	
Higher priority function	—	■ Disable function ■ Logic operation or priority function	
Logic operation			
■ AND, OR	—	■	
■ Switch object has an inverted impact to the logic operation	—	■	
Disable function			
■ Behaviour of locking after bus voltage recovery	—	■	
■ Behavior at the start/end of the locking	—	■	
Behaviour of bus voltage failure / bus voltage recovery / download	■ / ■ / —	— / ■ / ■	
Status messages			
■ 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.

KNX

Overview rail mounted devices

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
				
	MTN649325	MTN649330	MTN649350	MTN649310
	4	2	1	1
	8 modules	4 modules	4 modules	4 modules
	■	■	■	■
	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
	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
	25 W	25 W	25 W	25 W
	50 VA	50 VA	50 VA	50 VA
	50 VA	50 VA	50 VA	50 VA
	■	■	■	■
	■	—	—	—
	—	AC 230 V, 50/60 Hz	AC 230 V, 50/60 Hz	AC 110-230 V, 50/60 Hz, mechanical push-buttons
	■	■	■	■
				
	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



Dimming actuator REG-K/2x230/300 W



Version	Art. no.
light grey	MTN646630

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.

Universal dimming actuator REG-K/230/1000 W



Version	Art. no.
light grey	MTN649310

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

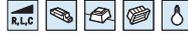
AC 110 V /60 Hz, 24-400 VA

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.



Universal dimming actuator REG-K/230/500 W



Version	Art. no.
light grey	MTN649350

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/2x230/300 W



Version	Art. no.
light grey	MTN649330

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.

Dimming actuators/control units



Universal dimming actuator REG-K/4x230/250 W



Version	Art. no.
light grey	MTN649325

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.



Universal dimming actuator REG-K/4x230/150 W



Version	Art. no.
light grey	MTN649315

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.



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	MTN647091

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 μF

AC 230 V, max. 3600 W, 200 μF

AC 240 V, max. 3840 W, 200 μF

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	MTN646991

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, $\cos\phi = 0.6$

Switching capacity: AC 230 V, 3600 W, $\cos\phi = 1$

Capacitive load: AC 230 V, 16 A, 200 μF

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.
	MTN6725-0001

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

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 mm²

Type of protection: IP 20

Device width: 4 modules = approx. 72 mm

Contents: With bus connecting terminal.



KNX DALI gateway REG-K/1/16(64)/64



Version	Art. no.
light grey	MTN680191

The DALI gateway connects the KNX with digital electronic ballasts equipped with a DALI interface. The gateway is the DALI master and power supply for the electronic ballasts. It supports the switching and dimming of up to 64 electronic ballasts in 16 groups and the control of 16 lightscenes. In addition, the 64 electronic ballasts can be individually activated via KNX or compiled via KNX group addresses.

Error messages of individual electronic ballasts or each connected lamp can be transmitted to the KNX and visualised on display devices. DALI commissioning and configuration, as well as group assignment and scene setting can be carried out using:

- the device (display and operating buttons)
- a software tool (free of charge)
- the integrated Web server. The RH45 connection is used for connection to a PC (with standard browser).
- a portable Web panel or a PDA

The device has 2 inputs for connecting push-buttons (building site operation), for example.

The network and the DALI cable as well as the switch inputs are connected via screw terminals on the device.

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.

Supply voltage: AC 110 - 240 V, 50 - 60 Hz

Inputs: 2, passive DC 9 - 36 V or AC 9 - 24 V

Outputs: DALI D+, D- in line with DALI specification DC 16 - 18 V, 150 mA, short circuit-proof

Interfaces: 1xRJ45

Connecting cable: 1.5 - 2.5 mm²

Type of protection: IP 20

Device width: 6 modules = approx. 108 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	MTN682291

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 (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: 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	MTN682292

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.

Visualization



KNX InSideControl IP-Gateway



Version	Art. no.
light grey	MTN6500-0113

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 tablet PCs.

The gateway supports the internet protocol DHCP. The IP address can be assigned dynamically via a DHCP server or manually via ETS settings. The gateway operates in accordance with the KNXnet/IP specification using Core, device management, tunnelling and routing. 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 tablet PCs:

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.

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 mm²

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/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.
	MTN6260-1007

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	MTN6270-1119
<input checked="" type="checkbox"/> black	MTN6270-1122

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..



Flush-mounted mounting box for Touch Panel 7"



Version	Art. no.
grey	MTN6270-0003

For flush-mounted installation of the Touch Panel 7" and for installing into a cavity wall.
DimensionsOuter 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	MTN6270-3619

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	MTN6270-3721
Steel	MTN6270-3714

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	MTN6270-3760
Polar white	MTN6270-3719
Black	MTN6270-3722

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	MTN6270-0019
<input checked="" type="checkbox"/> black	MTN6270-0022

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	MTN6270-0219
<input checked="" type="checkbox"/> black	MTN6270-0222

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.
	MTN6269-0010

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.



Real glass frame for IP Touch Panel 10"



Version	Art. no.
■ Diamond silver	MTN489960

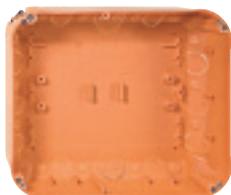
For M-Plan.

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

Control and display devices



Flush-mounted mounting box for IP Touch Panel 10"



Version	Art. no.
	MTN683091

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.
	MTN683092

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

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	MTN6212-0344
<input type="checkbox"/> polar white, glossy	MTN6212-0319
<input type="checkbox"/> active white, glossy	MTN6212-0325
<input checked="" type="checkbox"/> anthracite	MTN6212-0414
<input checked="" type="checkbox"/> aluminium	MTN6212-0460

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	MTN6214-0344
<input type="checkbox"/> polar white, glossy	MTN6214-0319
<input type="checkbox"/> active white, glossy	MTN6214-0325
<input checked="" type="checkbox"/> anthracite	MTN6214-0414
<input type="checkbox"/> aluminium	MTN6214-0460

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 remote control Distance 2010 MTN570222

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	MTN6241-0344
<input type="checkbox"/> polar white, glossy	MTN6241-0319
<input type="checkbox"/> active white, glossy	MTN6241-0325
<input checked="" type="checkbox"/> anthracite	MTN6241-0414
<input type="checkbox"/> aluminium	MTN6241-0460

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	MTN616744
<input type="checkbox"/> polar white, glossy	MTN616719
<input type="checkbox"/> active white, glossy	MTN616725
<input checked="" type="checkbox"/> anthracite	MTN616814
<input checked="" type="checkbox"/> aluminium	MTN616860

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	MTN616790

Temperature sensor the floor/room temperature measurement

Cable length: 4 m (2 x 0.75 mm²)

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	MTN6221-0344
<input type="checkbox"/> polar white, glossy	MTN6221-0319
<input type="checkbox"/> active white, glossy	MTN6221-0325
<input checked="" type="checkbox"/> anthracite	MTN6221-0414
<input type="checkbox"/> aluminium	MTN6221-0460

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 type="checkbox"/> white, glossy	MTN6212-4044
<input type="checkbox"/> polar white, glossy	MTN6212-4019
<input type="checkbox"/> aluminium	MTN6212-4060
<input type="checkbox"/> stainless steel	MTN6212-4146

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 4-gang plus with room temperature control unit



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

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 remote control Distance 2010 MTN570222

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	MTN6241-4044
<input type="checkbox"/> polar white, glossy	MTN6241-4019
<input type="checkbox"/> aluminium	MTN6241-4060
<input type="checkbox"/> stainless steel	MTN6241-4146

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	MTN616944
<input type="checkbox"/> polar white, glossy	MTN616919
<input type="checkbox"/> aluminium	MTN616960
<input type="checkbox"/> varnished stainless steel	MTN616946

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	MTN616790

Temperature sensor the floor/room temperature measurement

Cable length: 4 m (2 x 0.75 mm²)

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	ALB45154
■ aluminium	ALB46154

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	MGU3.534.18
<input type="checkbox"/> ivory	MGU3.534.25

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	MGU5.534.18
<input type="checkbox"/> ivory	MGU5.534.25

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	MGU50.534.18
<input checked="" type="checkbox"/> ivory	MGU50.534.25

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	MGU3.534.30
■ graphite	MGU3.534.12

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	MGU5.534.30
■ graphite	MGU5.534.12

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	MGU50.534.30
■ graphite	MGU50.534.12

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.
	MTN6921-0001

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 Wx D) 82 x 50 x 65 mm

Contents: With 2 valve adapters (VA10/VA78).

EMO valve drive with 2 binary inputs



Version	Art. no.
polar white	MTN639118

Electromotive proportional valve drive with integrated bus coupler and microprocessor control with automatic valve lift detection. With two integrated binary inputs.

The valve drive can be connected directly to the KNX. A separate power supply is not required.

KNX software functions: Control value. Actual position. Status. Forced position (window "Open" detection, lower and upper limit for basic temperature control of underfloor heating for example). Binary inputs. Limit value.

Power consumption: typ. 10 mA
(= 240 mW; approx. 2 BCU modules)

Lift: min. 1.0 mm; max. 4.5 mm

Running time: 25 s/mm

Type of protection: IP 43 in line with EN 60529 (for vertical installation)

Protection class: III in line with EN 60730

Connecting cable: 1 m fixed; J(E)YY 3x2x0.6

Connection to bus line: via bus connecting terminal

Installation: suitable for all Heimeier thermostatic valve bodies and three-way changeover valves

Accessories: Programming magnet MTN639190

Programming magnet



Version	Art. no.
	MTN639190

Non-contact programming of the physical address of the EMO valve drive or KNX ARGUS 220.

In KNX, to be completed with: EMO valve drive MTN639119, EMO valve drive with 2 binary inputs MTN639118, KNX ARGUS 220 MTN6325..

Room temperature control units



KNX fan coil actuator REG-K



Version	Art. no.
light grey	MTN645094

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 ±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..



Heating actuator REG-K/6x230/0.05 A



Version	Art. no.
light grey	MTN645129

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	MTN639125

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 mm² 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	MTN639126

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.
	MTN639150

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.
	MTN639178

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.
	MTN639180

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	MTN693003

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	MTN693004

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	MTN663529

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.

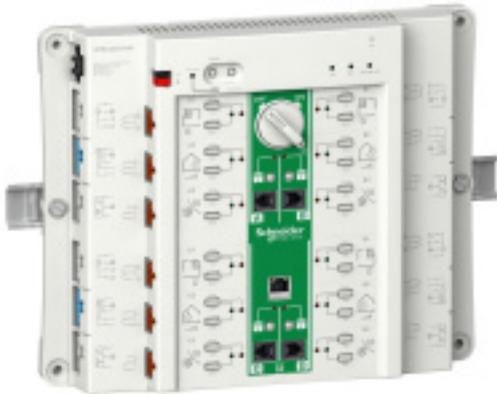
Office Roombox

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 mm² cable).
- Power output: 12 x single phase of 600 VA max (1.5 mm² 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_{cc} = 10 kA
 - overload: I_n = 2.6 A
 - earth leakage: I Δ n = 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.

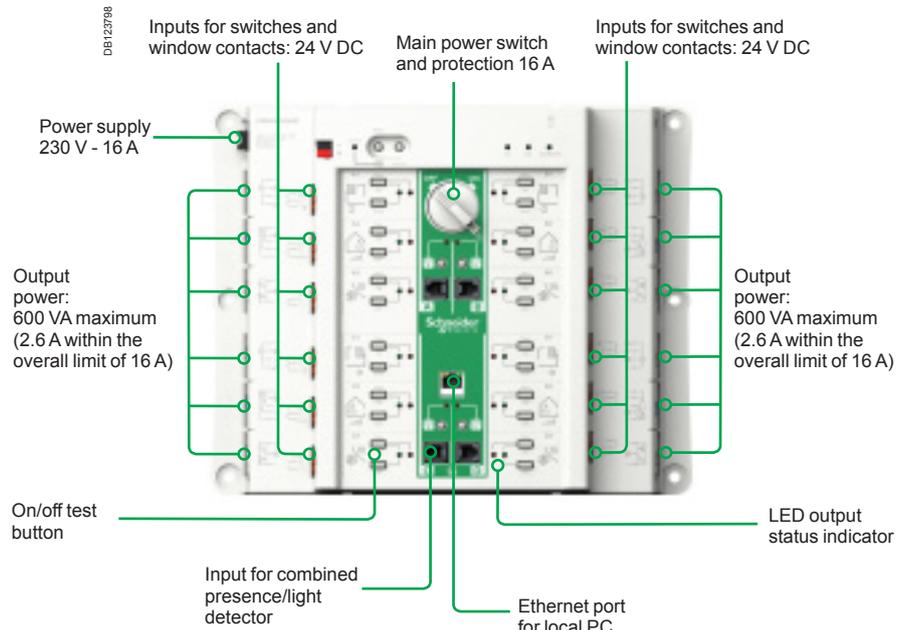
Control

- 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.

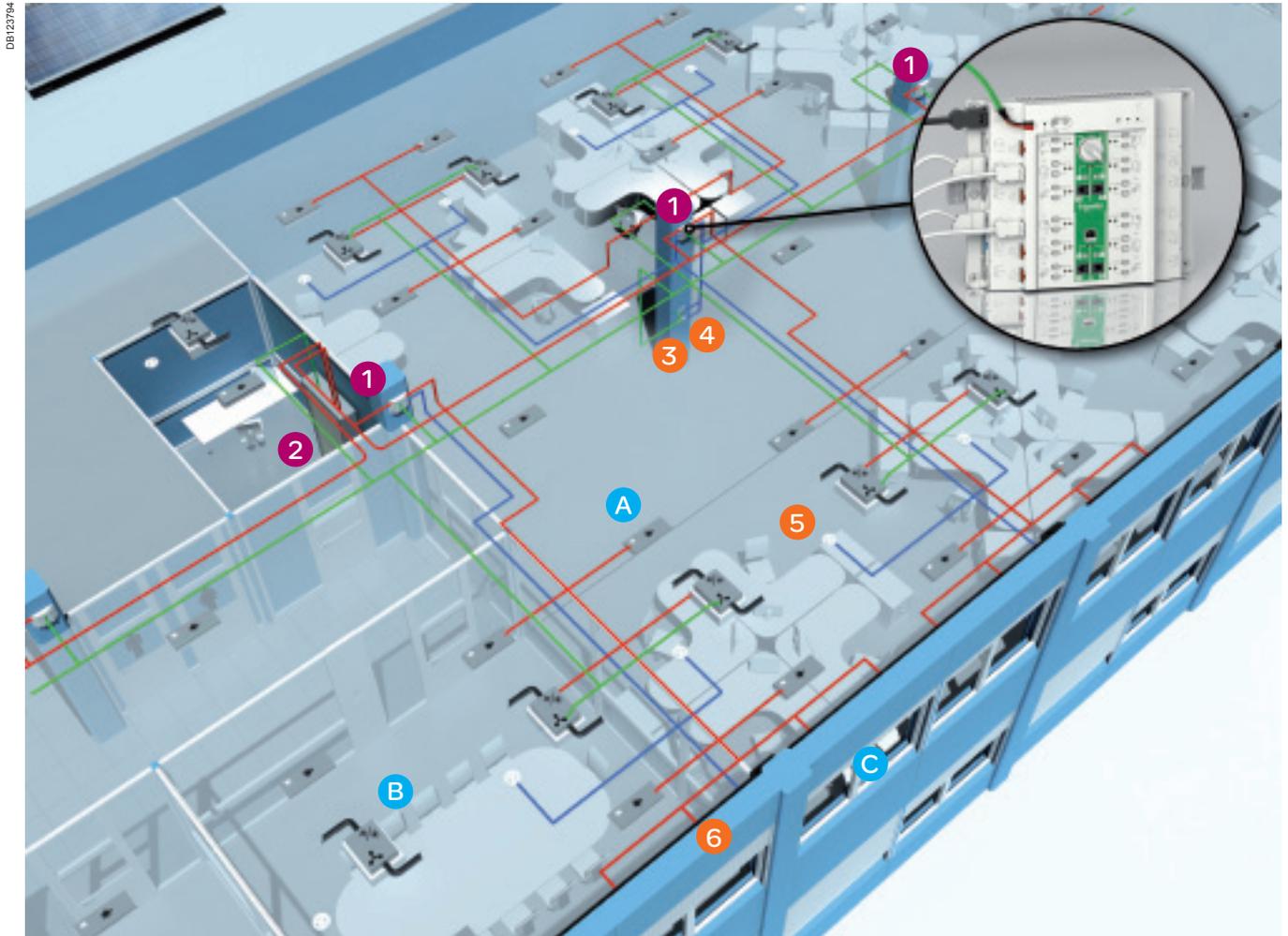
Installation

- 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
Power					
Mains power input		16 A			
Output circuits		2.6 A, 600 VA max			
Metering		Class 1, Class 2			
Communication protocol					
KNX		■	■	■	■
Controlled output power circuits x 12					
Lighting circuits ⁽¹⁾		x 4	x 4	x 8	x 8
ON/OFF		■	■	■	■
Dimming via DALI		■	No	■	No
Daylight harvesting		■	No	■	No
Presence control		■	■	■	■
Automated shutters and roller blinds circuits		x 4	x 4	No	No
UP/DOWN		■	■	No	No
TILT (slat angle change)		■	■	No	No
HVAC circuits ⁽²⁾		x 4	x 4	x 4	x 4
230 V power supply		■	■	■	■
230 V valve control		■	■	■	■
Inputs x 16					
Pushbutton for lighting		x 4	x 4	x 8	x 8
Input types		Single/double impulse pushbutton, rocker switch			
Pushbutton for automated shutters and roller blinds		x 4	x 4	No	No
Input types		Double impulse pushbutton			
Window contact		x 4	x 4	x 4	x 4
Input types		Normally closed (normally open configured via ETS)			
Multi-sensor		x 4	x 4	x 4	x 4
Input types		Analogue (1-10 V) for light level, Digital for presence			
Connection					
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			
Environment					
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			
Compliance with standards					
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			
Product information					
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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MTN6901-0000	
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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.
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MTN6901-0001	
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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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MTN6901-0003	
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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

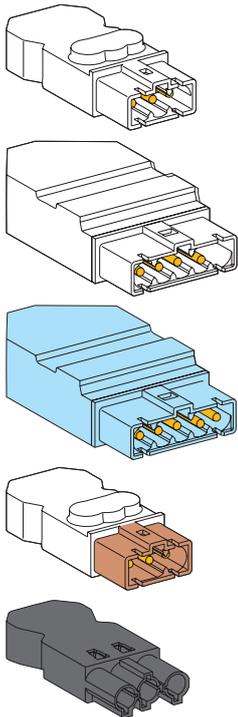


Version	Art. no.
	MTN6901-0005

Accessories from: Presence detector and light-level sensor MTN6901-0000



Type	Qty	Cat. no.
DIN RAIL Mounting		
DIN RAIL bolt for M6 screws	100	NSYTDE6
18 mm M6 screw with ring for DIN rail kit	100	NSYS18M6H



Customer connector		
HVAC, LIGHT On/Off output, gesis MINI GST 15i3, 3 poles, white (pack of 50 pieces)	50	ORBCL50
Automated shutters output, gesis MINI GST 15i4, 4 poles, white (pack of 50 pieces)	50	ORBCS50
Lighting DALI output, gesis MINI GST 15i5, 5 poles, pastel blue (pack of 50 pieces)	50	ORBCD50
Wired input, gesis MINI GST 15i3, 3 poles, brown (pack of 50 pieces)	50	ORBCI50
Mains power supply input, gesis MINI GST 18i3, 3 poles, black (pack of 50 pieces)	50	ORBCM50

ALB45150	55	MGU50.531.18	58	MTN6214-4060	147	MTN6903-6300	35	MTN619125	42
ALB45151	55	MGU50.531.25	58	MTN6214-4146	49	MTN6903-6301	35	MTN619144	42
ALB45152	55	MGU50.531.30	61	MTN6214-4146	147	MTN6921-0001	157	MTN619219	43
ALB45153	75	MGU50.532.12	61	MTN6221-0319	145	MTN296019	31	MTN619225	43
ALB45154	150	MGU50.532.18	58	MTN6221-0325	145	MTN296025	31	MTN619244	43
ALB46150	55	MGU50.532.25	58	MTN6221-0344	145	MTN296044	31	MTN619319	42
ALB46151	55	MGU50.532.30	61	MTN6221-0414	145	MTN297819	31	MTN619325	42
ALB46152	55	MGU50.533.12	78	MTN6221-0460	145	MTN297844	31	MTN619344	42
ALB46153	75	MGU50.533.18	76	MTN6241-0319	143	MTN297846	31	MTN619419	42
ALB46154	150	MGU50.533.25	76	MTN6241-0325	143	MTN297860	31	MTN619425	42
CCT15860	89	MGU50.533.30	78	MTN6241-0344	143	MTN297914	31	MTN619444	42
CCT15861	89	MGU50.534.12	156	MTN6241-0414	143	MTN297960	31	MTN619519	43
MGU3.530.12	59	MGU50.534.18	153	MTN6241-0460	143	MTN482160	53	MTN619525	43
MGU3.530.18	56	MGU50.534.25	153	MTN6241-4019	148	MTN482260	53	MTN619544	43
MGU3.530.25	56	MGU50.534.30	156	MTN6241-4044	148	MTN482360	54	MTN619619	43
MGU3.530.30	59	MTN6003-0001	99	MTN6241-4060	148	MTN489960	139	MTN619625	43
MGU3.531.12	59	MTN6003-0002	100	MTN6241-4146	148	MTN550619	80	MTN619644	43
MGU3.531.18	56	MTN6003-0003	129	MTN6260-1007	136	MTN569100	53	MTN619719	43
MGU3.531.25	56	MTN6003-0004	121	MTN6269-0010	139	MTN569101	53	MTN619725	43
MGU3.531.30	59	MTN6003-0005	159	MTN6270-0003	137	MTN569190	54	MTN619744	43
MGU3.532.12	59	MTN6003-0006	122	MTN6270-0019	138	MTN569200	53	MTN625114	42
MGU3.532.18	56	MTN6003-0006	160	MTN6270-0022	138	MTN569201	53	MTN625160	42
MGU3.532.25	56	MTN6005-0001	82	MTN6270-0219	138	MTN569290	54	MTN625199	42
MGU3.532.30	59	MTN6164-4600	52	MTN6270-0222	138	MTN569300	54	MTN625214	43
MGU3.533.12	77	MTN6212-0319	40	MTN6270-1119	136	MTN569301	54	MTN625260	43
MGU3.533.18	75	MTN6212-0319	141	MTN6270-1122	136	MTN569390	54	MTN625299	44
MGU3.533.25	75	MTN6212-0325	40	MTN6270-3619	137	MTN570222	27	MTN625414	42
MGU3.533.30	77	MTN6212-0325	141	MTN6270-3714	137	MTN615034	92	MTN625460	42
MGU3.534.12	154	MTN6212-0344	40	MTN6270-3719	137	MTN616719	144	MTN625514	42
MGU3.534.18	151	MTN6212-0344	141	MTN6270-3721	137	MTN616725	144	MTN625560	42
MGU3.534.25	151	MTN6212-0414	40	MTN6270-3722	137	MTN616744	144	MTN625614	43
MGU3.534.30	154	MTN6212-0414	141	MTN6270-3760	137	MTN616790	144	MTN625660	43
MGU5.530.12	60	MTN6212-0460	40	MTN6500-0113	34	MTN616790	149	MTN625714	43
MGU5.530.18	57	MTN6212-0460	141	MTN6500-0113	135	MTN616814	144	MTN625760	43
MGU5.530.25	57	MTN6212-4019	48	MTN6503-0201	30	MTN616860	144	MTN625814	43
MGU5.530.30	60	MTN6212-4019	146	MTN6600-0603	29	MTN616919	149	MTN625860	43
MGU5.531.12	60	MTN6212-4044	48	MTN6606-0008	88	MTN616944	149	MTN626119	50
MGU5.531.18	57	MTN6212-4044	146	MTN6606-0070	89	MTN616946	149	MTN626144	50
MGU5.531.25	57	MTN6212-4060	48	MTN6606-0071	88	MTN616960	149	MTN626146	50
MGU5.531.30	60	MTN6212-4060	146	MTN6700-0002	101	MTN617119	37	MTN626160	50
MGU5.532.12	60	MTN6212-4146	48	MTN6700-0004	104	MTN617125	37	MTN626199	50
MGU5.532.18	57	MTN6212-4146	146	MTN6700-0008	107	MTN617144	37	MTN626219	51
MGU5.532.25	57	MTN6214-0319	41	MTN6700-0012	111	MTN617219	37	MTN626244	51
MGU5.532.30	60	MTN6214-0319	142	MTN6725-0001	132	MTN617225	37	MTN626246	51
MGU5.533.12	77	MTN6214-0325	41	MTN6901-0000	168	MTN617244	37	MTN626260	51
MGU5.533.18	76	MTN6214-0325	142	MTN6901-0001	168	MTN617419	38	MTN626299	52
MGU5.533.25	76	MTN6214-0344	41	MTN6901-0003	168	MTN617425	38	MTN626419	50
MGU5.533.30	77	MTN6214-0344	142	MTN6901-0005	169	MTN617444	38	MTN626444	50
MGU5.534.12	155	MTN6214-0414	41	MTN6903-6014	35	MTN617519	38	MTN626446	50
MGU5.534.18	152	MTN6214-0414	142	MTN6903-6019	35	MTN617525	38	MTN626460	50
MGU5.534.25	152	MTN6214-0460	41	MTN6903-6060	35	MTN617544	38	MTN626519	50
MGU5.534.30	155	MTN6214-0460	142	MTN6903-6114	36	MTN617819	46	MTN626544	50
MGU50.530.12	61	MTN6214-4019	49	MTN6903-6119	36	MTN618319	38	MTN626546	50
MGU50.530.18	58	MTN6214-4019	147	MTN6903-6160	36	MTN618320	38	MTN626560	50
MGU50.530.25	58	MTN6214-4044	49	MTN6903-6214	36	MTN618419	38	MTN626619	51
MGU50.530.30	61	MTN6214-4044	147	MTN6903-6219	36	MTN618420	38	MTN626644	51
MGU50.531.12	61	MTN6214-4060	49	MTN6903-6260	36	MTN619119	42	MTN626646	51

MTN626660	51	MTN631819	74	MTN663591	85
MTN626719	51	MTN631844	74	MTN663592	85
MTN626744	51	MTN631846	74	MTN663593	87
MTN626746	51	MTN631860	74	MTN663594	87
MTN626760	51	MTN632515	72	MTN663595	86
MTN626819	51	MTN632519	72	MTN663596	86
MTN626844	51	MTN632569	72	MTN663692	85
MTN626846	51	MTN632614	73	MTN663990	83
MTN626860	51	MTN632660	73	MTN663991	82
MTN627514	37	MTN632714	73	MTN663992	83
MTN627560	37	MTN632760	73	MTN668091	92
MTN627591	39	MTN639118	157	MTN668092	92
MTN627614	37	MTN639125	161	MTN668990	25
MTN627660	37	MTN639126	162	MTN668991	25
MTN627814	38	MTN639150	162	MTN670802	64
MTN627860	38	MTN639178	162	MTN670804	64
MTN627914	38	MTN639180	162	MTN676090	28
MTN627960	38	MTN639190	157	MTN677029	91
MTN628019	44	MTN644492	65	MTN677129	90
MTN628044	44	MTN644592	65	MTN677290	91
MTN628046	44	MTN644692	67	MTN680191	133
MTN628060	44	MTN644792	66	MTN680204	26
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MTN628119	44	MTN644992	67	MTN680329	33
MTN628144	44	MTN645094	158	MTN680790	32
MTN628146	44	MTN645129	158	MTN681799	31
MTN628160	44	MTN646630	126	MTN681829	31
MTN628219	45	MTN646704	119	MTN682191	87
MTN628244	45	MTN646808	106	MTN682192	87
MTN628246	45	MTN646991	131	MTN682291	134
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MTN628319	45	MTN647393	102	MTN682991	84
MTN628344	45	MTN647395	103	MTN683091	140
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MTN628419	46	MTN647893	108	MTN683832	24
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MTN629993	98	MTN648704	118	MTN684032	24
MTN630419	81	MTN649202	101	MTN684064	24
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MTN631619	73	MTN649804	120	ORBCS50	169
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MTN631725	73	MTN660790	32	ORBK8L0S4HW	167
MTN631744	73	MTN663529	163		

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*This document has been printed
on ecological paper*

Publishing: Schneider Electric Industries SAS
Design: Breitbanddesign AG
Illustrations: Breitbanddesign AG
Photos: Constantin Meyer Photographie, Divis
Photo location: Office Kassel & Residential Cologne, Germany
Printing: