# **KNX Catalogue**

# Plan for intelligent Future Safety

**Building Control Systems** 





# Efficiency is the success factor in modern buildings



Contemporary building control has got to be easy and intelligent

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# 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.

### 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.

### 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.

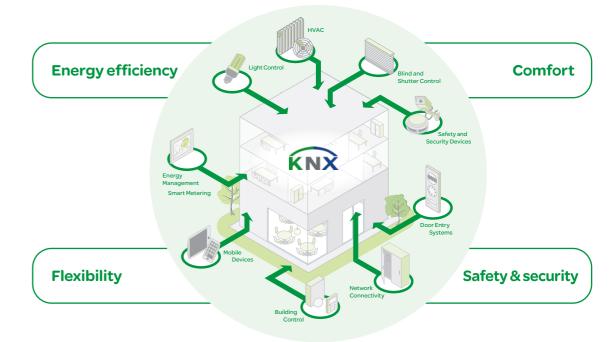
### Safety and security

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 buildir technologies in one system







# The advantages of modern building control with KNX

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

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The more extensive the application, the greater the efficiency

### Low operating costs

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

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

### Time savings

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

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

### Flexibility and expandability

Changes of use are also effortless with KNX.

The installation can be adapted to modified requirements or future developments at any time. Additional components can be integrated into the existing bus system without requiring further installation work.

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

# Comfort, safety and security in private homes

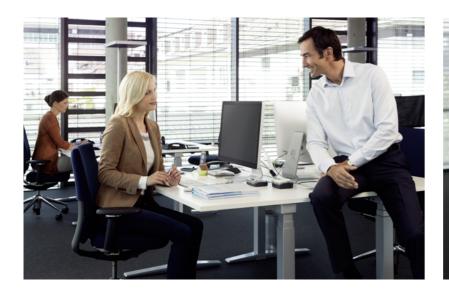
In private homes, the priority is on control convenience with high levels of safety and security. KNX conveniently connects different utilities together, realising comfortable solutions that are easy to operate and have intelligent functions for when the residents are not at home. Intelligent light and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

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

# Flexibility and efficiency in offices and public buildings

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

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





# Perfect working conditions

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

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

# Open-plan office

### Flexible lighting control

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

# Conference room

### Presentation mode at the push of a button

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



spaceLYnk







KNX push-button plus with room temperature control unit



OptiLine



# Secure living comfort

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



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

# Entrance area

# Greater safety and security with central functions

It gives you a good feeling when you can see at a glance on leaving a building that everything is OK. A 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.

# 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.



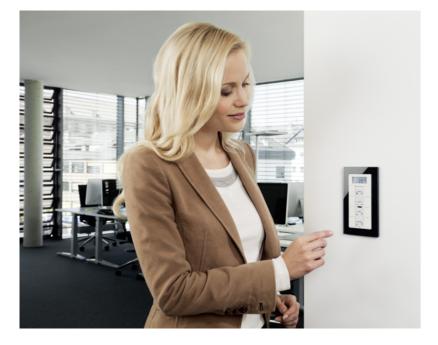
SpaceLogic KNX Touch IP 7



KNX push-button plus with room temperature control unit



Flush-mounted movement detector





# KNX – Technology with future

# Systematic building control

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



that all components are compatible

### Future-proof industry standard

KNX is the world's open standard for house and building system technology. In Europe, KNX is established in the EN 50491 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 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 energyefficient solutions, offers a complete assortment of KNX products - from the strong design of the control interface through to all necessary DIN rail system components. All energy-saving solutions can be harmonised with one another in order to compose the right system for every need.



# The intelligent bus principle

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

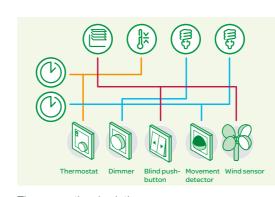


Simply intelligent: an installation bus carries all control signals within a building

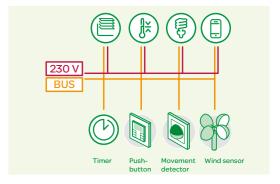
### One bus for maximum flexibility

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

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



The conventional solution: many separate lines, meaning less flexibility



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





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.



### 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.











Power supply unit



KNX logic module











### Sensors (selection)







USB interface

REG-K



Line coupler



KNX push-button

Movement detector

Room temperature control unit

Binary input

Anemometer

### Actuators (selection)





Dimming actuator







Switch actuator

Heating actuator

Blind actuator

KNX DALI-Gateway

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# **Energy Efficiency with KNX**

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



Energy Saving just by visualising consumption

### Comprehensive energy management

Schneider Electric – leading supplier of energy management solutions – offers a large scope of energy solutions which can be perfectly combined KNX Touch IP 7. And all of this is from a single source, so compatibility is assured.

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

# Measuring and visualising – the first step to savings

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



SpaceLogic KNX Touch IP 7

### Saving and evaluating energy data

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

Devices with a high energy consumption can easily be identified, and their consumption can be immediately optimised.

# Improvement starts with a decision about what to measure

The trump card of LifeSpace Management is flexibility. For each requirement, Schneider Electric offers solutions for achieving individual energy efficiency concepts and energy saving scenarios. The com-

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

### Monitoring with high accuracy

The KNX Energy Meter provides energy measuring with class 1 accuracy for single and groups of devices. It measures total and period energy as well as instant power and provides 8 different alarm thresholds. When consumption exceeds preset limit, commands for switching or dimming can be sent or KNX scenes can be activated. The commands can be provided with adjustable delays if needed. Alarms can be sent to Touch IP 7 as well in case of current power, e.g. if server cooling falls below preset limits.



### KNX and Modbus: an intelligent combination

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

**Application Example** 

iEM3150



Simplified illustration

# Become the building manager for your customers

# Flexibility for today and tomorrow

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



KNX configurations can be changed easily and inexpensively

### Flexibility right from the start

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

### Changing the use of rooms and floors

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

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

from the single room to the entire office floor.







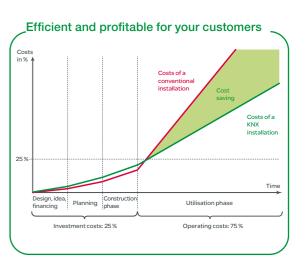


# Profitability for your customers

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

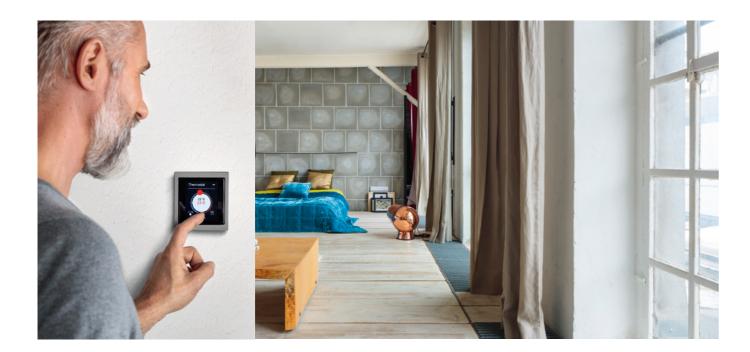


With KNX, it is possible to save up to 30% operating costs in the long term When it comes to a comparison between the investment costs of a KNX system and those of a conventional installation, what counts is the required range of functions. Often, even simple scene functions can be implemented more costeffectively 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.



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Schneider



# Intuitive user interfaces

The familiar KNX system devices, actuators and sensors are now complemented by the new KNX Multitouch Pro and KNX Push-button Pro – two new user interfaces that provide more functions and flexibility than a conventional range of multi-function push-buttons. They are also easy to install and commission, saving you valuable time.

### In touch with comfort

The new KNX Multitouch Pro and Pushbutton Pro user interfaces are the perfect addition to modern KNX installations. They feature a high-quality design that sits perfectly flush in D-Life frames and an operating interface that has a similar look and feel to that of a smartphone or tablet. Incorporating innovative technology, this range delivers the ultimate in convenient operation and flexible control for room comfort functions.





KNX Multitouch Pro and
KNX Push-button Pro,
D-Life Metal, nickel metallic

# **KNX Multitouch Pro**



The new KNX Multitouch Pro stands out thanks to its exceptional design. Its function control is similar to that of a smartphone or tablet. Swiping is used to achieve simple and intuitive switching between eight possible main functions. The unit offers a choice of two interface designs, vertical or rotary, which can also be used in combina-



Swipe to switch between main functions

### tion.

### Special product features:

- Proximity sensor: Display illumination is activated automatically upon approach
- Gesture function: controls one previously defined function using a particular gesture
- Customizable screen saver



Lighting control – in rotary display mode Uses a control-dial look and feel



Lighting control – in vertical display mode Enables control of two functions per display

# **KNX Push-button Pro**



High-quality design and intuitive operability – the new KNX Push-button Pro concentrates on what is essential.

The individual touch-sensitive zones of the sensor cover are shown using illuminated function icons that shine through the translucent surface and emphasize the high-quality look of the new pushbutton.

The sensor cover is available in in all the System D colors.

Up to four light, shutter and scenario functions can be controlled using the KNX Push-button Pro. This means that, in combination with the KNX Multitouch Pro, it offers the perfect solution for intuitive and flexible room control at home or in commercial spaces.

### Customizable

The foil set included with the KNX Push-button Pro interface allows you to clearly and professionally label basic functions. A blank carrier foil can also be used to add individual symbols as required.









Individual symbols for use with carrier foil

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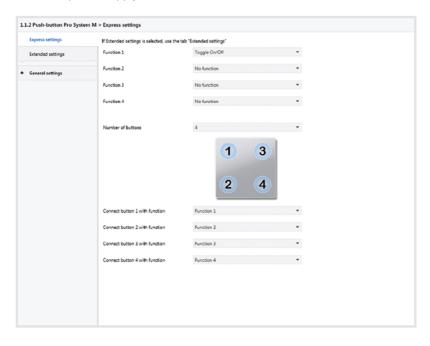
# Installation and commissioning

The new KNX user interface range offers a completely new approach to planning, commissioning and installation. Simpler, faster and more flexible.

### Features that you and your customers will love

In the past, all KNX functions had to be pre-defined before installation. Now the new KNX user interface makes planning simpler. Only two references are required for a simple KNX installation in all rooms, based on the number of required functions. The allocation of desired functions can be implemented at the time of commissioning.

An express commissioning feature enables rapid project design. Frequently used functions are predefined in the ETS application. The allocation of desired functions can be modified at any time with no risk of losing group addresses. The KNX Multitouch Pro and KNX Push-button Pro do not require an additional power supply.



ETS express settings for the KNX Push-button Pro-

# 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



plus with room tempera-



KNX push-button 1-gang plus



KNX push-button 2-gang



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

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# Example: Unica



KNX push-buttons



KNX push-button



KNX push-button with IR receiver



KNX push-button, 2-gang



KNX room temperatur 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

# New products at a glance

### **Hybrid Module**





The Hybrid Module integrates ZigBee wireless devices from Wiser™ offer to an installation that is realized with the controller Wiser for KNX (LSS100100) or spaceLYnk (LSS100200). The user is then able to control Wiser™ devices from their KNX installation and control KNX devices from their Wiser™ devices. The Hybrid Module and its configuration plugin is designed for residential and commercial installations.

The Hybrid Module is powered by separate 24 V power supply and connected to the controller via RS232 communication interface. Once the ZigBee devices are paired with the controller, they are mapped in KNX objects and can be used like any other KNX device. Moreover when Wiser for KNX is used, the wireless devices can be controlled via the Wiser KNX app (Wiser KNX App, available in specific countries).

Because the list of Wiser devices is constantly growing, please visit <a href="https://www.go2se.com/">https://www.go2se.com/</a> ref=LSS100400 in order to refer manual for latest supported device list. The supported devices may vary depending on the country.

- Hybrid Plugin is available on Marketplace always up to date
- Easy integration and configuration of ZigBee wireless devices
- Automatic upgrade of the firmware of the Hybrid Module and connected ZigBee wireless devices so the installation is always well maintained and up to date

Supply voltage: DC 24 V

Display elements: LED bicolor (Red/Orange)

Interfaces: Antenna, RS232 communication (TX, RX, GND) and DC 24 V power supply(-/+)

Ambient temperature operation: 0°C to +45°C Device width: 1 modules = approx. 18 mm

Transmitting frequency: 2405 MHz  $\dots$  2480 MHz

Transmitting power: max. +10 dBm (10 mW)

Cable length: 3 m

Scope of delivery: SpaceLogic KNX Hybrid Module, SpaceLogic KNX Hybrid Antenna



Hybrid Antenna for connection to the SpaceLogic KNX Hybrid Module. The antenna is placed outside the cabinet. With magnetic base.

Transmitting frequency: 2405 MHz ... 2480 MHz Transmitting power: max. +10 dBm (10 mW) Cable length: 3 m

# New products at a glance

### **BMS IP Gateway**





LSB02779 / 11.2023



### SpaceLogic KNX BMS IP Gateway



arev	1 55100300	New
Version	Art. no.	

The SpaceLogic KNX BMS IP Gateway is a bidirectional multifunctional device that allows integration of Spacelogic KNX installations within Ecostruxure Building Operation. The main communication interface is KNX TP with BAC protocol.

The device combines three functions in one device:

- KNX IP router (max. 500 objects)
- KNX IP interface
- DPSU choke power supply

The Gateway is designed for commercial installations and certified by BTL as Application Specific Controller (B-ASC) which ensures 100% compatibility, and at the same time, guarantees a seamless integration with any BACnet device.

- Number of BACnet objects: 4,000
- Number of BACnet subscriptions (COV) requests: 4,000
- KNX group objects: 4,000
- KNX IP routing objects: 500
- KNX IP Secure compatibility
- KNXP IP tunneling, commissioning of KNX devices, long frame support
- HTTP / HTTPS / NTP servers
- Direct import of \*knxproj file with automatic filtering tables

Power supply voltage: DC 12 V - 30 V SELV

Power Supply DPSU choke: DC 21 V - 31 V SELV

DPSU choke: rated current max. 320 mA, chort circuit proof, tripping current ≤1A

Display elements:

- LED indicator 1: Green LED (CPU load)

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

Controls: 1x reset button, 2 jumpers (PoE and POW) Interfaces: 1x RJ45 Ethernet 10/100 Mbit/s

Terminals:

- KNX bus: Bus terminal 2 x 0.8 mm

- Power supply/Power supply DPSU choke: 2-gang/3gang pluggable screw terminal for

max. 2x 0.5 mm<sup>2</sup>-1.5 mm<sup>2</sup>

Protection type: IP20

Ambient temperature operation: 0°C to +45°C

Device width: 4 modules = approx. 72 mm

**BACnet Protocol Revision: 22** 

BACnet Device Profile: B-ASC, B-GW

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# SpaceLogic KNX

# New products at a glance

MTN6260-7760

### Control and display devices





# SpaceLogic KNX Touch IP 7 Version Art. no. MTN6260-7770

The SpaceLogic KNX Touch IP 7 inch is a touch screen used to display the visualization from Wiser for KNX or spaceLYnk logic controllers. It can be installed in both Residential and Commercial buildings and in new or existing KNX installations.

The touch panel can display the widget-based Touch visualization or the PC/Tablet visualization with the possibility of realistic graphics. It can also display the new Wiser KNX App, in case the user would like to control their KNX installation in a similar way as from his Smartphone. All interaction with the touch panel is very easy and efficient, adapted to the needs of the

modern concept of smart homes and buildings. The installation can be done horizontally or vertically allowing landscape or portrait mode

The touch panel is equipped with an embedded application, making the configuration easy and fast. Thanks to WiFi connectivity the installation of touch panel is easier and provides a freedom in choosing of installation location.

An over the air update (OTAU) feature available in the touch panel keeps the solution always up to date and secure. The Touch Panel can be installed surface mounted, anywhere were there would be a 24 V cables to power it.

### **TouchPanel**

Screen diagonal: 17.47 cm (7")

Resolution: 1024 x 600

Type: Colorful TFT LCD & multi-touch capacitive screen

### Horizontal orientation

Vertical top / bottom viewing angle: 30° / 70°

Horizontal right / left viewing angle: 70° / 70°

### Vertical orientation

Vertical top / bottom viewing angle:  $70^{\circ}$  /  $70^{\circ}$ Horizontal right / left viewing angle: 30° / 70°

2-wire power supply: DC 24 V

Current consumption in standby state (mA): 90 mA

Current consumption in activestate (mA): 240 mA

Frequency band: IEEE 802.11 a/b/g/n/ac 2.4/5 GHz (2400-2483.5 MHz, 5150-5250 MHz)

### **Environmental conditions**

Operating temperature: -10 °C to +55 °C

Operating Humidity: 0% to 95% RH no condensing

Storage temperature: -25 °C to +70 °C Storage humidity: 0 % to 95 % RH no condensing

IP rating: IP30

### Dimensions and weight

Dimensions (W x H x D): 132.76 x 196.65 x 23.91 mm

Weight: 448 g / 814 g (with package)

When choosing the installation location, the maximum cable length must be observed. The following shows the lengths from the touch panel to the respective assemblies in the system.

- YR 2x0.8 mm, J-Y(ST)Y 2x2x0.8 mm, A-2Y(L)2Y 2x2x0.8 mm: cable must not be longer than
- A-2Y(L)2Y 2x2x0.6 mm, J-Y(ST)Y 2x2x0.6 mm: cable must not be longer than 80 m.

# New products at a glance

### **Push-buttons**



LSB02779 / 11.2023

### SpaceLogic KNX 4" Touch Unit





Version

MTN6215-0410

Art. no.

The 4" Touch unit is a room controller designed to be the center of the smart home. Premium materials and a high-quality display with built-in sensors offer a wide range of applications.

The slim design of the product fits perfectly into the modern concept of today's smart installations and architecture. The product can be used in both residential and commercial projects. The product has a modern, seamless user interface that provides an immersive experience every time it is used, with the display waking up simply by moving closer thanks to the proxim-

The display has up to 9 screens that can display individual functions as widgets. This allows you to have different combinations of up to 6 widgets on each screen and effectively control all connected systems. You move between screens with a simple swipe, familiar from traditional smartphone use.

### User Interface functions:

- Different UI theme style
- Screen saver
- Orientation indicator
- Proximity function triggered by object
- Setting the backlight in normal/night mode
- Setting the appearance of the screen

### Main functions

- Brightness dimming
- RGB dimming
- RGBW dimming
- Colour temperature dimming ■ Venetian blind position and slat
- Air conditioner control
- Room temperature control
- Ventilation control
- Audio control

### **HVAC** controller functions:

- FCU controller: switching on/off (2-point control), switching PWM (PI control), continuous control (PI control)
- Floor heating controller
- Ventilation controller

General: Scene group function, 8 logic function channels (AND; OR, XOR, threshold comparator, format converter) each with 8 inputs

Power supply from KNX: DC 21-30 V approx. 24 V/3 mA Auxiliary Power supply: DC 21-30 V approx. 24 V/85 mA Screen: 10 cm (3.95") LCD, 480 x 480 pixels

Measuring accuracy: ±1 °C at 25 °C IP protection rating: IP 20

Dimensions WxHxD: 86 x 86 x 32 mm

Accessories: Dismantling protection MTN6270-0000
Note: Programmable with ETS5 and higher.

# New products at a glance



### KNX Push Button Dynamic Labeling, 1-gang



The KNX Push Button Dynamic Labeling 1-gang is a push button for 2 rockers on which different functions can be set. The functions are configured in the ETS or eConfigure KNX and then shown accordingly on the display. This type of labeling makes it very easy to change a symbol and text.

### **ETS** device functions:

- Display: Icons can be selected to match the function and their color and brightness can be configured. Individual text can be placed. Cleaning mode can be configured.
- Temperature measurement by internal sensor and setpoint change option for HVAC
- Night mode with reduced display brightness
- Orientation indicator: configuration of behaviour, color and brightness
- KNX programming mode can be activated from the back and from the front.
- Proximity function: can be triggered by the sensor or by object, range of proximity ≤12 cm KNX software functions:

Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4-bit or 1-byte telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene, RGB lighting, color temperature control, locking function, logic function (AND, OR, XOR, threshold converter, format converter)

There are 2 programming options for the KNX software functions:

- Express settings: Calls up a pre-set configuration of the functions
- Extended settings: Individual configuration of the functions

The bus is connected using a bus connecting terminal, power supply via the KNX bus.

To be completed with: Rocker 1-gang for KNX Push Button Dynamic Labeling MTN6191-6035, MTN6191-6034, MTN6191-6036, MTN6191-6050, MTN6191-6052

Accessories: Dismantling protection MTN6270-0000

Note: Programmable with ETS5, ETS6, and eConfigure KNX. Contents: Push button, bus connecting terminal and supporting plate.

# New products at a glance



### KNX Push Button Dynamic Labeling, 2-gang



2-gang	MTN6192-6010	New
Version	Art. no.	

The KNX Push Button Dynamic Labeling 2-gang is a push button for 4 rockers on which different functions can be set. The functions are configured in the ETS or eConfigure KNX and then shown accordingly on the display. This type of labeling makes it very easy to change a symbol and text.

### ETS device functions:

- Display: Icons can be selected to match the function and their color and brightness can be configured. Individual text can be placed. Cleaning mode can be configured.
- Temperature measurement by internal sensor and setpoint change option for HVAC
- Night mode with reduced display brightness
- Orientation indicator: configuration of behaviour, color and brightness
- KNX programming mode can be activated from the back and from the front.
- Proximity function: can be triggered by the sensor or by object, range of proximity ≤12 cm KNX software functions:

Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4-bit or 1-byte telegrams (distinction between short and long operation), pulse  $\frac{1}{2}$ edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene, RGB lighting, color temperature control, locking function, logic function (AND, OR, XOR, threshold converter, format converter)

There are 2 programming options for the KNX software functions:

- Express settings: Calls up a pre-set configuration of the functions
- Extended settings: Individual configuration of the functions

The bus is connected using a bus connecting terminal, power supply via the KNX bus.

To be completed with: Rocker 2-gang for KNX Push Button Dynamic Labeling MTN6192-6035, MTN6192-6034, MTN6192-6036, MTN6192-6050, MTN6192-6052

Accessories: Dismantling protection MTN6270-0000

Note: Programmable with ETS5, ETS6, and eConfigure KNX.

Contents: Push button, bus connecting terminal and supporting plate.

# New products at a glance



### KNX Push Button Dynamic Labeling, 3-gang



Version	Art. no.	
3-gang	MTN6193-6010	New

The KNX Push Button Dynamic Labeling 3-gang is a push button for 6 rockers on which different functions can be set. The functions are configured in the ETS or eConfigure KNX and then shown accordingly on the display. This type of labeling makes it very easy to change a symbol and text.

### ETS device functions:

- Display: Icons can be selected to match the function and their color and brightness can be configured. Individual text can be placed. Cleaning mode can be configured.
- Temperature measurement by internal sensor and setpoint change option for HVAC
- Night mode with reduced display brightness
- Orientation indicator: configuration of behaviour, color and brightness
- KNX programming mode can be activated from the back and from the front.
- Proximity function: can be triggered by the sensor or by object, range of proximity ≤12 cm KNX software functions:

Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4-bit or 1-byte telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene, RGB lighting, color temperature control, locking function, logic function (AND, OR, XOR, threshold converter, format converter)

There are 2 programming options for the KNX software functions:

- Express settings: Calls up a pre-set configuration of the functions
- Extended settings: Individual configuration of the functions

The bus is connected using a bus connecting terminal, power supply via the KNX bus.

To be completed with: Rocker 3-gang for KNX Push Button Dynamic Labeling MTN6193-6035, MTN6193-6034, MTN6193-6036, MTN6193-6050, MTN6193-6052

Accessories: Dismantling protection MTN6270-0000 Note: Programmable with ETS5, ETS6, and eConfigure KNX. Contents: Push button, bus connecting terminal and supporting plate.

# New products at a glance



### KNX Push Button Dynamic Labeling, universal



universal	MTN6194-6010	New
Version	Art. no.	

The KNX Push Button Dynamic Labeling Universal is a push button for 2 to max 8 rockers on which different functions can be set. This flexible structure allows the number of rockers/functions to be adapted to changing requirements.

The functions are configured in the ETS or eConfigure KNX and then shown accordingly on the display. This type of labeling makes it very easy to change a symbol and text. ETS device functions:

- Display: Icons can be selected to match the function and their color and brightness can be configured. Individual text can be placed. Cleaning mode can be configured.
- Temperature measurement by internal sensor and setpoint change option for HVAC
- Night mode with reduced display brightness
- Orientation indicator: configuration of behaviour, color and brightness
- KNX programming mode can be activated from the back and from the front.
- Proximity function: can be triggered by the sensor or by object, range of proximity ≤12 cm

### KNX software functions:

Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4-bit or 1-byte telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene, RGB lighting, color temperature control, locking function, logic function (AND, OR, XOR, threshold converter, format converter)

There are 2 programming options for the KNX software functions:

- Express settings: Calls up a pre-set configuration of the functions
- Extended settings: Individual configuration of the functions

The bus is connected using a bus connecting terminal, power supply via the KNX bus.

To be completed with: Rocker 1-gang for KNX Push Button Dynamic Labeling MTN6191-6035, MTN6191-6034, MTN6191-6036, MTN6191-6050, MTN6191-6052 Rocker 2-gang for KNX Push Button Dynamic Labeling MTN6192-6035, MTN6192-6034,

MTN6192-6036, MTN6192-6050, MTN6192-6052 Rocker 3-gang for KNX Push Button Dynamic Labeling MTN6193-6035, MTN6193-6034,

MTN6193-6036, MTN6193-6050, MTN6193-6052 Rocker 4-gang for KNX Push Button Dynamic Labeling MTN6194-6035, MTN6194-6034, MTN6194-6036, MTN6194-6050, MTN6194-6052

Accessories: Dismantling protection MTN6270-0000 Note: Programmable with ETS5, ETS6, and eConfigure KNX. Contents: Push button, bus connecting terminal and supporting plate.

### Rocker 1-gang for KNX Push Button Dynamic Labeling



For System D.

The rockers are placed on the Push Button Dynamic Labeling. The rockers can be put on and

To be completed with: KNX Push Button Dynamic Labeling, 1-gang MTN6191-6010, KNX Push Button Dynamic Labeling, universal MTN6194-6010

Contents: 1x rocker 1-gang.

### Rocker 2-gang for KNX Push Button Dynamic Labeling



Version		Art. no.	
	lotus white	MTN6192-6035	New
	anthracite	MTN6192-6034	New
	stainless steel	MTN6192-6036	New
	nickel metallic	MTN6192-6050	New
	mocca metallic	MTN6192-6052	New

### For System D.

The rockers are placed on the Push Button Dynamic Labeling. The rockers can be put on and removed again without tools.

To be completed with: KNX Push Button Dynamic Labeling, 2-gang MTN6192-6010, KNX Push Button Dynamic Labeling, universal MTN6194-6010

### Rocker 3-gang for KNX Push Button Dynamic Labeling



Contents: 2x rockers 2-gang.

Version	Art. no.	
☐ lotus white	MTN6193-6035	New
anthracite	MTN6193-6034	New
stainless steel	MTN6193-6036	New
nickel metallic	MTN6193-6050	New
mocca metallic	MTN6193-6052	New

The rockers are placed on the Push Button Dynamic Labeling. The rockers can be put on and removed again without tools.

To be completed with: KNX Push Button Dynamic Labeling, 3-gang MTN6193-6010, KNX Push Button Dynamic Labeling, universal MTN6194-6010

Contents: 1x rocker 2-gang, 2x rockers 4-gang

### Rocker 4-gang for KNX Push Button Dynamic Labeling



Version	Art. no.	
☐ lotus white	MTN6194-6035	New
anthracite	MTN6194-6034	New
stainless steel	MTN6194-6036	New
nickel metallic	MTN6194-6050	New
mocca metallic	MTN6194-6052	New

The rockers are placed on the Push Button Dynamic Labeling. The rockers can be put on and

To be completed with: KNX Push Button Dynamic Labeling, universal MTN6194-6010 Contents: 4x rockers 4-gang.



### UNICA

## Unica KNX push-button, 2 key

New products at a glance



Version

silver

٦	Thermoplastic							
ī	dark grey	NP16161_01BK_E1	New					
	wine gold	NP16161_01WG_E1	New					
ī	silver	NP16161_01SL_E1	New					

Push-button with 2 operating buttons and status indicators. In idle state, the surface of the push-button appears as a uniform plane. The inscription of the keys only becomes visible via the backlit symbols following activation. For this, you can use the enclosed prefabricated foils or the individual symbols with various motifs. Cool white and warm white LEDs show status, the brightness can be defined according to normal and night mode.

### ETS device functions:

- Behavior and brightness of the status indicators
- Night mode: LEDs light up with reduced brightness

Art no

■ Proximity function: The LEDs are only activated and the functions only become visible

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

### KNX software functions:

### 2 programming options:

- Express settings: Calls up a pre-set configuration
- Extended settings: Individual configuration

Express settings: Switching, toggling, dimming (single/dual-surface), blind (single/dualsurface), scenes.

Extended settings: Switching, dimming, value output, scene control (recal/store a scene), blind, shift register (stepwise, without steps), RGB lighting (RGB, RGBW), multiple operation in which you can define various functions manually (4 objects - on/off, up/down, recall scene, store scene, percentatge, unsigned value), delay mode, color temperature control. For all function a distinction can be made between short and long operation.

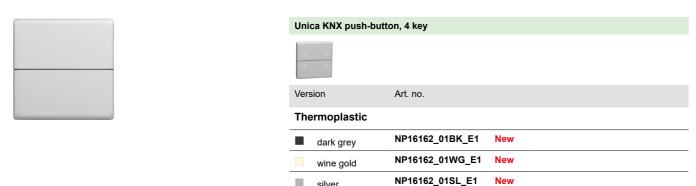
General: Scene group, logic function (AND; OR, XOR, threshold comparator, format converter), indication behaviors, locking function

### Note: Programmable with ETS5 and higher.

Contents: Device with inserted prefabricated foil. Additional foil with various symbols. Mount-

## SpaceLogic KNX

# New products at a glance



Push-button with 4 operating buttons and status indicators. In idle state, the surface of the push-button appears as a uniform plane. The inscription of the keys only becomes visible via the backlit symbols following activation. For this, you can use the enclosed prefabricated foils or the individual symbols with various motifs. Cool white and warm white LEDs show status, the brightness can be defined according to normal and night mode.

### ETS device functions:

silver

- Behavior and brightness of the status indicators
- Night mode: LEDs light up with reduced brightness
- Proximity function: The LEDs are only activated and the functions only become visible when approached.

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

### KNX software functions:

2 programming options:

- Express settings: Calls up a pre-set configuration
- Extended settings: Individual configuration

Express settings: Switching, toggling, dimming (single/dual-surface), blind (single/dual-

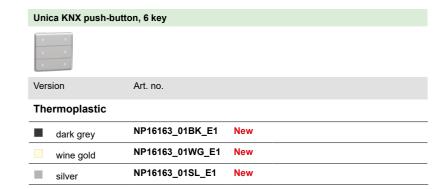
Extended settings: Switching, dimming, value output, scene control (recal/store a scene), blind, shift register (stepwise, without steps), RGB lighting (RGB, RGBW), multiple operation in which you can define various functions manually (4 objects - on/off, up/down, recall scene, store scene, percentatge, unsigned value), delay mode, color temperature control. For all function a distinction can be made between short and long operation.

General: Scene group, logic function (AND; OR, XOR, threshold comparator, format converter), indication behaviors, locking function

### Note: Programmable with ETS5 and higher.

Contents: Device with inserted prefabricated foil. Additional foil with various symbols. Mount-

# New products at a glance



Push-button with 6 operating buttons and status indicators. In idle state, the surface of the push-button appears as a uniform plane. The inscription of the keys only becomes visible via the backlit symbols following activation. For this, you can use the enclosed prefabricated foils or the individual symbols with various motifs. Cool white and warm white LEDs show status, the brightness can be defined according to normal and night mode.

- Behavior and brightness of the status indicators
- Night mode: LEDs light up with reduced brightness
- Proximity function: The LEDs are only activated and the functions only become visible when approached.

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

### KNX software functions:

2 programming options:

- Express settings: Calls up a pre-set configuration
- Extended settings: Individual configuration

Express settings: Switching, toggling, dimming (single/dual-surface), blind (single/dual-

Extended settings: Switching, dimming, value output, scene control (recal/store a scene), blind, shift register (stepwise, without steps), RGB lighting (RGB, RGBW), multiple operation in which you can define various functions manually (4 objects - on/off, up/down, recall scene, store scene, percentatge, unsigned value), delay mode, color temperature control. For all function a distinction can be made between short and long operation.

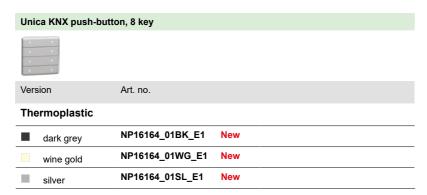
General: Scene group, logic function (AND; OR, XOR, threshold comparator, format converter), indication behaviors, locking function

### Note: Programmable with ETS5 and higher.

Contents: Device with inserted prefabricated foil. Additional foil with various symbols. Mount-

# New products at a glance





Push-button with 8 operating buttons and status indicators. In idle state, the surface of the push-button appears as a uniform plane. The inscription of the keys only becomes visible via the backlit symbols following activation. For this, you can use the enclosed prefabricated foils or the individual symbols with various motifs. Cool white and warm white LEDs show status, the brightness can be defined according to normal and night mode.

### ETS device functions:

- Behavior and brightness of the status indicators
- Night mode: LEDs light up with reduced brightness
- Proximity function: The LEDs are only activated and the functions only become visible when approached.

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

### KNX software functions:

2 programming options:

- Express settings: Calls up a pre-set configuration
- Extended settings: Individual configuration

Express settings: Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), scenes.

Extended settings: Switching, dimming, value output, scene control (recal/store a scene), blind, shift register (stepwise, without steps), RGB lighting (RGB, RGBW), multiple operation in which you can define various functions manually (4 objects - on/off, up/down, recall scene, store scene, percentatge, unsigned value), delay mode, color temperature control. For all function a distinction can be made between short and long operation.

General: Scene group, logic function (AND; OR, XOR, threshold comparator, format converter), indication behaviors, locking function

### Note: Programmable with ETS5 and higher.

Contents: Device with inserted prefabricated foil. Additional foil with various symbols. Mounting screws.

# New products at a glance



### Unica KNX push-button, 5 key plus thermomstat



VCI	SIOII	Aut. 110.	
The	ermoplastic		
	dark grey	NP16212_01BK_E1	New
	wine gold	NP16212_01WG_E1	New
	oilvor	NP16212 01SL E1	New

Push-button with thermostat, display and 5 operating buttons with status indicators. With an integrated temperature sensor for temperature measurement. The thermostats supports Fan Coil Units (FCU), Variable Refrigerant Flow systems (VRF), floor heating systems and ventilation.

The display shows all relevant information for room temperature control e.g. the actual temperature, heating/cooling status, ventilation, ...

The inscription of the keys only becomes visible via the backlit symbols following activation. For this, you can use the enclosed prefabricated foils or the individual symbols with various motifs. Cool white and warm white LEDs show status, the brightness can be defined according to normal and night mode.

### ETS device functions:

- Display settings: temperature unit, brightness level, standby adjustment
- Behavior and brightness of the status indicators
- Night mode: LEDs light up with reduced brightness
- Proximity function: The LEDs are only activated and the functions only become visible when approached.
- Temperature sensor: Calibration and sending behavior

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

### KNX software functions:

2 programming options:

- Express settings: Calls up a pre-set configuration
- Extended settings: Individual configuration

Express settings: Power on/off of the device, control mode/operation mode (to call with short/ long button press), Fan speed, Temperature +/-, Function page, Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), scenes.

Extended settings: Switching, dimming, value output, scene control (recal/store a scene), blind, shift register (stepwise, without steps), RGB lighting (RGB, RGBW), multiple operation in which you can define various functions manually (4 objects - on/off, up/down, recall scene, store scene, percentatge, unsigned value), delay mode, color temperature control. For all function a distinction can be made between short and long operation.

HVAC settings: FCU or VRF controller, floor heating and ventilation

FCU: Heating and/or cooling mode, room temperature can be taken as reference from the internal sensor, an external sensor or a combination of both. Implementation of a window contact. Setpoint adjustment.

VRF: Heating and/or cooling mode, dehumidifaication mode, fan mode, auto mode, fan speed adjustment, setpoint.

Floor heating: Setpoint, PI control, PWM or switching 2-point feedback control, setpoint adjustment

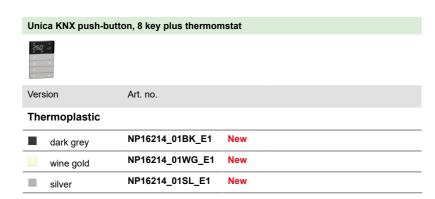
General: Scene group, logic function (AND; OR, XOR, threshold comparator, format converter), indication behaviors, locking function, support of CO2 sensor, monitoring of further sensors.

### Note: Programmable with ETS5 and higher.

**Contents:** Device with inserted prefabricated foil. Additional foil with various symbols. Mounting screws.

# New products at a glance





Push-button with thermostat, display and 8 operating buttons with status indicators. With an integrated temperature sensor for temperature measurement. The thermostats supports Fan Coil Units (FCU), Variable Refrigerant Flow systems (VRF), floor heating systems and ventilation.

The display shows all relevant information for room temperature control e.g. the actual temperature, heating/cooling status, ventilation, ...

The inscription of the keys only becomes visible via the backlit symbols following activation. For this, you can use the enclosed prefabricated foils or the individual symbols with various motifs. Cool white and warm white LEDs show status, the brightness can be defined according to normal and night mode.

### ETS device functions:

- Display settings: temperature unit, brightness level, standby adjustment
- Behavior and brightness of the status indicators
- Night mode: LEDs light up with reduced brightness
- Proximity function: The LEDs are only activated and the functions only become visible when approached.
- Temperature sensor: Calibration and sending behavior
  With integrated bus coupler. The bus is connected using a bus connecting terminal.

### KNX software functions:

2 programming options:

- Express settings: Calls up a pre-set configuration
- Extended settings: Individual configuration

Express settings: Power on/off of the device, control mode/operation mode (to call with short/ long button press), Fan speed, Temperature +/-, Function page, Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), scenes.

Extended settings: Switching, dimming, value output, scene control (recal/store a scene), blind, shift register (stepwise, without steps), RGB lighting (RGB, RGBW), multiple operation in which you can define various functions manually (4 objects - on/off, up/down, recall scene, store scene, percentatge, unsigned value), delay mode, color temperature control. For all function a distinction can be made between short and long operation.

HVAC settings: FCU or VRF controller, floor heating and ventilation.

FCU: Heating and/or cooling mode, room temperature can be taken as reference from the internal sensor, an external sensor or a combination of both. Implementation of a window contact. Setpoint adjustment.

VRF: Heating and/or cooling mode, dehumidifaication mode, fan mode, auto mode, fan speed adjustment, setpoint.

Floor heating: Setpoint, PI control, PWM or switching 2-point feedback control, setpoint adjustment

General: Scene group, logic function (AND; OR, XOR, threshold comparator, format converter), indication behaviors, locking function, support of CO2 sensor, monitoring of further sensors

### Note: Programmable with ETS5 and higher.

**Contents:** Device with inserted prefabricated foil. Additional foil with various symbols. Mounting screws.

# New products at a glance



LSB02779 / 11.2023

### Unica KNX 4.0 inch touch screen



Version

glass





NP16260 0104

Art, no.

Comfortable room controller with 4 inch touch panel to control up to 54 functions and the room

New

All functions are displayed on up to 9 touch screens and called up with simple finger movements. The touch screen is customizable, e.g. the user can choose between 3 theme styles, different screen savers, 43 predefined icons and 35 individual icons.

The proximity can be triggered by an object (presence detector) and can also be sent, e.g. to trigger another action or for visualization.

An FCU controller, a floor heating controller and a ventilation controller are available as HVAC controllers

### ETS device functions:

- On/Off behavior of the user interface
- Proximity function triggered by object
- Setting the backlight in normal/night mode
- Setting the appearance of the screen

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

### Functions, control unit/push-button:

- Dual-surface: switch, brightness dimming, curtain step/move, roller blind step/move, scene, value output, loop operation, multiple operation, weather information, energy monitoring
- Single-surface: switch, scene, value output, loop operation, multiple operation, weather information, energy monitoring, air quality display
- With only one function of the screen: brightness dimming, RGB dimming (1 x 3 byte, 3 x 1 byte), RGBW dimming (1 x 6 byte, 4 x 1 byte), Colour temperature dimming, venetian blind position and slat, air conditioner control panel (setpoint/actual temperature, internal/external sensor), room temperatur control panel, ventialtion control panel, audio control (volume adjustment, play mode, 3 play modes)

### Functions of the room temperature control unit:

- FCU controller: switching on/off (2-point control), switching PWM (PI control), continuous control (PI control)
- Floor heating controller
- Ventilation controller

General: Scene group function, 8 logic function channels (AND; OR, XOR, threshold comparator, format converter) each with 8 inputs, indication behaviors

Note: Programmable with ETS5 and higher.

# SpaceLogic KNX

# New products at a glance

### **Actuators**



### SpaceLogic KNX Hybrid Switch Actuator REG-K/4x250/10 with manual mode



### For the Chinese market.

For independent switching of 4 loads or for controlling up to 2 blinds/roller shutters, 1 fan coil with 3 levels, two 2-pipe valve controls or one 4-pipe valve control. All functions are freely configurable and can be operated manually with a switch on the device. A green LED indicates readiness for operation after the application has been loaded. For mounting on DIN rails TH35 according to EN61715. The bus connection is made via a bus connection terminal.

General KNX software functions: Live signal, enabling safety priority function, central control of switching/curtains function, sending delay after bus voltage recovery

### Switching actuator functions

Preset, Logic, Scene, Threshold, Safety, Forced, Locking, Central, Time function for each channel including delay, flashing and staircase timer, relay state after bus voltage failure/ recovery/ETS download, object value of the Switch object after voltage recovery, status feedback for each channel

### Heating actuator functions

PWM cycle time for continuous, 1 bit/1 byte control telegram, Valve protection, Safety, Locking, Forced, Cyclic surveillance, Operation as NC/NO, Valve position after bus voltage failure or recovery, Contact response value when contact is opened or closed

Power supply: KNX Bus Rated current: 9 mA, maximum 20 mA/24 V KNX power consumption: < 840 mW Nominal voltage: AC 250 V, 50/60 Hz

### Nominal power for each contact:

AC1 10 Å operation (cos  $\varphi$  = 0.8) accord. with IEC 60947-4-1 AC3 6 A operation (cos  $\varphi$  = 0.45) accord. with IEC 60947-4-1

Incandescent lamp: 2500 W

Fluorescent lamp: 2500 W

Electronic transformer for extra low voltage lamps (e.g. halogen lamps): 1100 W Iron core transformer for extra low voltage lamps (e.g. halogen lamps): 900 W

**LED lamp:** 300 W,  $\cos \varphi \ge 0.6$ Capacitive loads: 10 AX, 140 µF **Motors:** 1500 VA,  $\cos \phi \ge 0.6$ 

Minimum switching current: 100 mA/12 V AC Connection KNX: Bus connection terminal

Connection port mains: screw terminal blocks, 2x 6-gang

Switching frequency at rated load: Maximum 60 operation/min

Mechanical service life: >1x106 Inrush current: 320 A/2 ms Protection type: IP20 Protection class: II

Insulation category: Overvoltage category III, pollution degree 2

**Environmental conditions** 

Operating temperature: -5...+45 °C Storage temperature: -25 ...+55 °C Transport temperature: -25 ...+70°C Maximum humidity: 93 %, no condensation

Installation height: As high as 2000 m above sea level

Dimensions (WxHxD): 72x90x64 mm

Contents: With bus connecting terminal and cable cover.

# New products at a glance

MTN6700-0108



# Version Art. no.

SpaceLogic KNX Hybrid Switch Actuator REG-K/8x250/10 with manual mode

### For the Chinese market.

8 channels, white

For independent switching of 8 loads or for controlling up to 4 blinds/roller shutters, 2 fan coils with 3 levels, four 2-pipe valve controls or two 4-pipe valve control. All functions are freely configurable and can be operated manually with a switch on the device. A green LED indicates readiness for operation after the application has been loaded. For mounting on DIN rails TH35 according to EN61715. The bus connection is made via a bus connection terminal.

General KNX software functions: Live signal, enabling safety priority function, central control of switching/curtains function, sending delay after bus voltage recovery

### Switching actuator functions

Preset, Logic, Scene, Threshold, Safety, Forced, Locking, Central, Time function for each channel including delay, flashing and staircase timer, relay state after bus voltage failure/ recovery/ETS download, object value of the Switch object after voltage recovery, status feedback for each channel

### **Heating actuator functions**

PWM cycle time for continuous, 1 bit/1 byte control telegram, Valve protection, Safety, Locking, Forced, Cyclic surveillance, Operation as NC/NO, Valve position after bus voltage failure or recovery, Contact response value when contact is opened or closed

Power supply: KNX Bus

Rated current: 10 mA max. 22 mA/24 V KNX power consumption: < 840 mW Nominal voltage: AC 250 V, 50/60 Hz

### Nominal power for each contact:

AC1 10 Å operation (cos  $\varphi$  = 0.8) accord. with IEC 60947-4-1 AC3 6 A operation (cos  $\varphi$  = 0.45) accord. with IEC 60947-4-1

Incandescent lamp: 2500 W Fluorescent lamp: 2500 W

Electronic transformer for extra low voltage lamps (e.g. halogen lamps): 1100 W Iron core transformer for extra low voltage lamps (e.g. halogen lamps): 900 W

**LED lamp:** 250 W,  $\cos \phi \ge 0.6$ Capacitive loads: 10 AX, 140 µF **Motors:** 1500 VA,  $\cos \varphi \ge 0.6$ 

Minimum switching current: 100 mA/12 V AC

Connection KNX: Bus connection terminal

Connection port mains: screw terminal blocks, 8 channels: 3x 6-gang

### Relay data

Switching frequency at rated load: Maximum 60 operation/min

Mechanical service life: >1x106 Inrush current: 192 A/1.2 ms Protection type: IP20 Protection class: II

Insulation category: Overvoltage category III, pollution degree 2

**Environmental conditions** Operating temperature: -5...+45 °C Storage temperature: -25 ...+55 °C Transport temperature: -25 ...+70°C Maximum humidity: 93 %, no condensation

Installation height: As high as 2000 m above sea level

Dimensions (WxHxD): 72x90x64 mm

Contents: With bus connecting terminal and cable cover.

# New products at a glance

# 00000000 00000000 00000000 . . . . . . . . 00000000

### SpaceLogic KNX Hybrid Switch Actuator REG-K/16x250/10 with manual mode



### For the Chinese market.

For independent switching of 16 loads or for controlling up to 8 blinds/roller shutters, 4 fan coils with 3 levels, eight 2-pipe valve controls or four 4-pipe valve control. All functions are freely configurable and can be operated manually with a switch on the device. A green LED indicates readiness for operation after the application has been loaded. For mounting on DIN rails TH35 according to EN61715. The bus connection is made via a bus connection terminal.

General KNX software functions: Live signal, enabling safety priority function, central control of switching/curtains function, sending delay after bus voltage recovery

Preset, Logic, Scene, Threshold, Safety, Forced, Locking, Central, Time function for each channel including delay, flashing and staircase timer, relay state after bus voltage failure/ recovery/ETS download, object value of the Switch object after voltage recovery, status feedback for each channel

PWM cycle time for continuous, 1 bit/1 byte control telegram, Valve protection, Safety, Locking, Forced, Cyclic surveillance, Operation as NC/NO, Valve position after bus voltage failure or recovery, Contact response value when contact is opened or closed

Power supply: KNX Bus

Rated current: 10 mA max. 26 mA/24 V KNX power consumption: < 840 mW Nominal voltage: AC 250 V, 50/60 Hz

### Nominal power for each contact:

AC1 10 Å operation (cos  $\varphi$  = 0.8) accord. with IEC 60947-4-1 AC3 6 A operation (cos  $\varphi$  = 0.45) accord. with IEC 60947-4-1

Incandescent lamp: 2500 W

Fluorescent lamp: 2500 W

Electronic transformer for extra low voltage lamps (e.g. halogen lamps): 1100 W Iron core transformer for extra low voltage lamps (e.g. halogen lamps): 900 W

**LED lamp:** 300 W,  $\cos \phi \ge 0.6$ Capacitive loads: 10 AX, 140 µF **Motors:** 1500 VA,  $\cos \phi \ge 0.6$ 

Minimum switching current: 100 mA/12 V AC Connection KNX: Bus connection terminal

Connection port mains: screw terminal blocks, 4x 8-gang

Switching frequency at rated load: Maximum 60 operation/min

Mechanical service life: >1x10 Inrush current: 320 A/2 ms Protection type: IP20 Protection class: II

Insulation category: Overvoltage category III, pollution degree 2

**Environmental conditions** Operating temperature: -5...+45 °C Storage temperature: -25 ...+55 °C Transport temperature: -25 ...+70°C

Maximum humidity: 93 %, no condensation Installation height: As high as 2000 m above sea level

Dimensions (WxHxD): 216x90x64 mm

Contents: With bus connecting terminal and cable cover.

# New products at a glance



LSB02779 / 11.2023

# SpaceLogic KNX Hybrid Switch Actuator REG-K/24x250/10 with manual mode S D D LED

Version Art. no. MTN6700-0124 24 channels, white New

For independent switching of 24 loads or for controlling up to 12 blinds/roller shutters, 6 fan coils with 3 levels, twelve 2-pipe valve controls or six 4-pipe valve control. All functions are freely configurable and can be operated manually with a switch on the device. A green LED indicates readiness for operation after the application has been loaded For mounting on DIN rails TH35 according to EN61715. The bus connection is made via a

General KNX software functions: Live signal, enabling safety priority function, central control of switching/curtains function, sending delay after bus voltage recovery

### Switching actuator functions

Preset, Logic, Scene, Threshold, Safety, Forced, Locking, Central, Time function for each channel including delay, flashing and staircase timer, relay state after bus voltage failure/ recovery/ETS download, object value of the Switch object after voltage recovery, status feedback for each channel

### Heating actuator functions

PWM cycle time for continuous, 1 bit/1 byte control telegram, Valve protection, Safety, Locking, Forced, Cyclic surveillance, Operation as NC/NO, Valve position after bus voltage failure or recovery, Contact response value when contact is opened or closed

Power supply: KNX Bus

Rated current: 12 mA max. 28 mA/24 V KNX power consumption: < 840 mW Nominal voltage: AC 250 V, 50/60 Hz

### Nominal power for each contact:

AC1 10 Å operation (cos  $\varphi$  = 0.8) accord. with IEC 60947-4-1 AC3 6 A operation (cos  $\varphi$  = 0.45) accord. with IEC 60947-4-1

Incandescent lamp: 2500 W

Fluorescent lamp: 2500 W

Electronic transformer for extra low voltage lamps (e.g. halogen lamps): 1100 W Iron core transformer for extra low voltage lamps (e.g. halogen lamps): 900 W

**LED lamp:** 300 W,  $\cos \varphi \ge 0.6$ Capacitive loads: 10 AX, 140 µF **Motors:** 1500 VA,  $\cos \varphi \ge 0.6$ 

Minimum switching current: 100 mA/12 V AC Connection KNX: Bus connection terminal

Connection port mains: screw terminal blocks, 5x 8-gang

### Relay data

Switching frequency at rated load: Maximum 60 operation/min

Mechanical service life: >1x106 Inrush current: 320 A/2 ms Protection type: IP20 Protection class: II

Insulation category: Overvoltage category III, pollution degree 2

**Environmental conditions** 

Operating temperature: -5...+45 °C Storage temperature: -25 ...+55 °C Transport temperature: -25 ...+70°C Maximum humidity: 93 %, no condensation Installation height: As high as 2000 m above sea level

Dimensions (WxHxD): 216x90x64 mm

Contents: With bus connecting terminal and cable cover.

# New products at a glance



### SpaceLogic KNX Switch Actuator REG-K/4x250/20 with manual mode



### For the Chinese market.

The actuator is used for switching 4 loads, or can be used as a 4-channel heating acutator for valves (without heating controller).

A green LED indicates readiness for operation after the application has been loaded. For mounting on DIN rails TH35 according to EN61715. The bus connection is made via a

General KNX software functions: Live signal, enabling safety priority function, central control of switching/curtains function, sending delay after bus voltage recovery

### Switching actuator functions:

Preset, Logic, Scene, Threshold, Safety, Forced, Locking, Central, Time function for each channel including delay, flashing and staircase timer, relay state after bus voltage failure/ recovery/ETS download, object value of the Switch object after voltage recovery, status feedback for each channel

### Heating actuator functions

PWM cycle time for continuous, 1 bit/1 byte control telegram, Valve protection, Safety, Locking, Forced, Cyclic surveillance, Operation as NC/NO, Valve position after bus voltage failure or recovery, Contact response value when contact is opened or closed

Power supply: KNX Bus

Rated current: 6.5 mA, max. 19 mA/24 V KNX power consumption: < 600 mW Nominal voltage: AC 250 V, 50/60 Hz

### Nominal power for each contact:

AC1 20 A operation (cos  $\varphi$  = 0.8) accord. with IEC 60947-4-1 AC3 16 A operation (cos  $\phi$  = 0.45) accord. with IEC 60947-4-1

Incandescent lamp: 4000 W

Fluorescent lamp: 4000 W

Electronic transformer for extra low voltage lamps (e.g. halogen lamps): 3000 W Iron core transformer for extra low voltage lamps (e.g. halogen lamps): 2200 W

**LED lamp:** 750 W,  $\cos \varphi \ge 0.6$ Capacitive loads: 20 AX, 200 µF **Motors:** 4000 VA,  $\cos \phi \ge 0.6$ 

Minimum switching current: 100 mA/12 V AC Connection port KNX: Bus connection terminal

Connection port Mains: Screw terminal blocks, 1x8-gang

Switching frequency at rated load: for one channel: 60 operations/min

Mechanical service life: >1x106 Inrush current: 500 A/2 ms Protection type: IP20 Protection class: II

Insulation category: Overvoltage category III, pollution degree 2

**Environmental conditions** Operating temperature: -5...+45 °C

Storage temperature: -25 ...+55 °C Transport temperature: -25 ...+70°C Maximum humidity: 93 %, no condensation

Installation height: As high as 2000 m above sea level Product dimensions (WxHxD): 4 channels: 72 x 90 x 64 mm Contents: With bus connecting terminal and cable cover

# 00000000 00000000

## New products at a glance

### SpaceLogic KNX Switch Actuator REG-K/8x250/20 with manual mode



### For the Chinese market.

The actuator is used for switching 8 loads, or can be used as a 8-channel heating acutator for valves (without heating controller).

A green LED indicates readiness for operation after the application has been loaded. For mounting on DIN rails TH35 according to EN61715. The bus connection is made via a

General KNX software functions: Live signal, enabling safety priority function, central control of switching/curtains function, sending delay after bus voltage recovery

### Switching actuator functions:

Preset, Logic, Scene, Threshold, Safety, Forced, Locking, Central, Time function for each channel including delay, flashing and staircase timer, relay state after bus voltage failure/ recovery/ETS download, object value of the Switch object after voltage recovery, status feedback for each channel

### Heating actuator functions

PWM cycle time for continuous, 1 bit/1 byte control telegram, Valve protection, Safety, Locking, Forced, Cyclic surveillance, Operation as NC/NO, Valve position after bus voltage failure or recovery, Contact response value when contact is opened or closed

Power supply: KNX Bus

Rated current: 6.5 mA, max. 19 mA/24 V KNX power consumption: < 600 mW Nominal voltage: AC 250 V, 50/60 Hz

### Nominal power for each contact:

AC1 20 A operation (cos  $\varphi$  = 0.8) accord. with IEC 60947-4-1 AC3 16 A operation ( $\cos \varphi = 0.45$ ) accord. with IEC 60947-4-1

Incandescent lamp: 4000 W

Fluorescent lamp: 4000 W

Electronic transformer for extra low voltage lamps (e.g. halogen lamps): 3000 W Iron core transformer for extra low voltage lamps (e.g. halogen lamps): 2200 W

**LED lamp:** 750 W,  $\cos \varphi \ge 0.6$ Capacitive loads: 20 AX, 200 µF **Motors:** 4000 VA,  $\cos \phi \ge 0.6$ 

Minimum switching current: 100 mA/12 V AC Connection port KNX: Bus connection terminal

Connection port Mains: Screw terminal blocks, 2x8-gang

Switching frequency at rated load: for one channel: 60 operations/min

for all channels: 8 channels 20 operations/mir

Mechanical service life: >1x106 Inrush current: 500 A/2 ms Protection type: IP20 Protection class: II

Insulation category: Overvoltage category III, pollution degree 2

**Environmental conditions** 

Operating temperature: -5...+45 °C Storage temperature: -25 ...+55 °C Transport temperature: -25 ...+70°C Maximum humidity: 93 %, no condensation

Installation height: As high as 2000 m above sea level Product dimensions (WxHxD): 8 channels: 144 x 90 x 64 mm Contents: With bus connecting terminal and cable cover

# 

### SpaceLogic KNX Switch Actuator REG-K/12x250/20 with manual mode



### For the Chinese market.

The actuator is used for switching 12 loads, or can be used as a 12-channel heating acutator for valves (without heating controller).

A green LED indicates readiness for operation after the application has been loaded. For mounting on DIN rails TH35 according to EN61715. The bus connection is made via a bus connection terminal.

General KNX software functions: Live signal, enabling safety priority function, central control of switching/curtains function, sending delay after bus voltage recovery

### Switching actuator functions:

Preset, Logic, Scene, Threshold, Safety, Forced, Locking, Central, Time function for each channel including delay, flashing and staircase timer, relay state after bus voltage failure/recovery/ETS download, object value of the Switch object after voltage recovery, status feedback for each channel

### Heating actuator functions

PWM cycle time for continuous, 1 bit/1 byte control telegram, Valve protection, Safety, Locking, Forced, Cyclic surveillance, Operation as NC/NO, Valve position after bus voltage failure or recovery, Contact response value when contact is opened or closed

Power supply: KNX Bus

Rated current: 6.5 mA, max. 19 mA/24 V KNX power consumption: < 600 mW Nominal voltage: AC 250 V, 50/60 Hz

### Nominal power for each contact:

AC1 20 A operation (cos  $\phi$  = 0.8) accord. with IEC 60947-4-1 AC3 16 A operation (cos  $\phi$  = 0.45) accord. with IEC 60947-4-1

Incandescent lamp: 4000 W

Fluorescent lamp: 4000 W

Electronic transformer for extra low voltage lamps (e.g. halogen lamps): 3000 W Iron core transformer for extra low voltage lamps (e.g. halogen lamps): 2200 W

LED lamp: 750 W,  $\cos \phi \ge 0.6$ Capacitive loads: 20 AX, 200  $\mu$ F Motors: 4000 VA,  $\cos \phi \ge 0.6$ 

Minimum switching current: 100 mA/12 V AC Connection port KNX: Bus connection terminal

Connection port Mains: Screw terminal blocks, 3x8-gang

### Relay data

Switching frequency at rated load: for one channel: 60 operations/min

for all channels: 12 operations/mil Mechanical service life: >1x10° Inrush current: 500 A/2 ms Protection type: IP20 Protection class: II

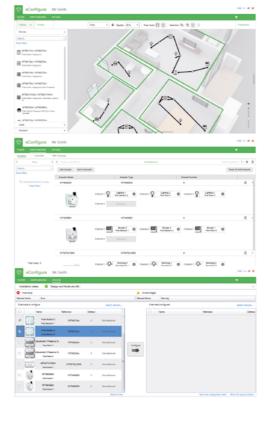
Insulation category: Overvoltage category III, pollution degree 2

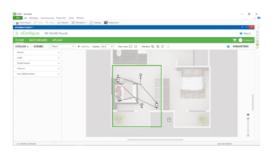
Environmental conditions
Operating temperature: -5...+45 °C
Storage temperature: -25 ...+55 °C
Transport temperature: -25 ...+70°C
Maximum humidity: 93 %, no condensation

Installation height: As high as 2000 m above sea level Product dimensions (WxHxD):12 channels 216 x 90 x 64 mm Contents: With bus connecting terminal and cable cover.

# eConfigure Software

### Software





# eConfigure KNX Lite Version Art. no.

eConfigure KNX Lite is a graphical tool to seamlessly plan and configure a KNX installation in residential and functional buildings. Time-consuming programming via ETS software is no longer necessary. The user creates his installation graphically directly on the plans of his installation and determines the functions of each KNX sensors (pushbuttons, thermostats, detectors, ...) in a simple, fast and intuitive way. KNX products in switchboards are generated automatically, which allows the user to save time, while being assured of a functional installation.

### Can be used:

- As a tool for simple, fast and intuitive configuration and setup for building automation solutions based on KNX
- As a product database that contains the catalogue with all available Schneider KNX devices in the country. It is no longer necessary to download the device files.

### Features

- $\hfill\blacksquare$  Fast and convenient planning and commissioning thanks to the graphical user interface.
- Allows access to pre-assembled solutions and enables easy configuration of scenes.
- Up to 250 KNX devices can be integrated in a project.

LSS900100

- Automatic generation and product selection of KNX modular devices for the control cabinet layout.
- Fully automatic creation of visualizations in combination with Wiser for KNX and spaceLYnk possible
- Assistant function checks the configuration for sources of error for smooth commissioning.
- Creation of a room book and material lists for simple project documentation.
- Import of eConfigure KNX lite project files into eConfigure KNX expert (-ETS5) possible.
   Compatible operating systems: Windows 7, SP1, Windows 8, Windows 10
- Compatible operating systems: windows 7, 5P1, windows 6, windows 10
   Minimum computer requirements: see operating instructions / user manual.

Compatible operating system: Windows 7 SP1, Windows 8, Windows 10

Minimum computer requirements: Refer to user manual. List of compatible KNX products: Refer to user manual

Automatic creation of visualizations for smartphone, tablet and Touch IP 7 in connection with Wiser for KNX (LSS100100) or spaceLYnk (LSS100200) possible.

Note: This software must be installed on a computer using the Windows® operating system. Scope of delivery: Box with KNX dongle and USB stick with software.

### eConfigure KNX Expert



Version Art. no.

Expert Available on knx.org shop (ETS App)

'eConfigure KNX Expert' is a graphical ETS App for seamless configuration and set-up of a home & building automation solutions.

The user creates his installation graphically directly on the plans of his installation and determines the functions of each KNX sensors (pushbuttons, thermostats, detectors, ...) in a simple, fast and intuitive way. KNX products in switchboards are generated automatically, which allows the user to save time, while being assured of a functional installation.

A library of solutions can be integrated in the software, allowing the novice or experienced user who wants to optimize his time to quickly create his project. It is also possible for the user to create his own solutions.

An installation report and list of products (bill of materials) can also be edited to allow the user to build a complete and professional file for the rest of his team or for his own clients.

All projects done with the Lite version are compatible with the Expert version.

It is possible to export the complete project in ETS.

Compatible operating system: Windows 7 SP1, Windows 8, Windows 10

Minimum computer requirements: Refer to user manual. List of compatible KNX products: Refer to user manual

Note: ETS5 with Pro license shall be used.

# SpaceLogic KNX

# **Power Supplies Overview**

	SpaceLogic KNX power supply REG-K					SpaceLogic KNX power supply REG-K with emergency power input	
	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0						
Article number	MTN684032	MTN684064	MTN6513-1203	MTN6513-1202	MTN6513-1201	MTN683832	MTN683890
Output current	320 mA	640 mA	320 mA	640 mA	1280 mA	320 mA	640 mA
Maximum number of bus devices	64	64	25	56	256	64	64
Input voltage, 50-60 Hz	AC 110-230 V		AC 220-240 V		AC 220-240 V	AC 110-230 V	
Output voltage	KNX: DC 28-31 V		KNX: DC 28-31 V Additional output: 30 V DC		KNX: DC 28-31 V Additional output: 30 V DC	KNX: DC	28-31 V
Device width (1 module = 18 mm)	4 mo	lules 4 modules		6 modules	4 modules		
Connections and displays							
LED display for maximum current				1			
Reset switch							
Signalling contact	-	_				-	-
Increase the rated current in the bus line	_		max. 2 identical devices can be connected in parallel		_	_	-
Connection for SpaceLogic KNX REG emergency power supply art. no. MTN683901			_	-	-		

# **System Components**

### **Bus voltage supply**





The current product database can be obtained from the Internet at http://www.schnei-

### SpaceLogic KNX Power Supply 320 mA

Art. no.

# SpaceLogic KNX Power Supply 640 mA



Version Art. no.

### MTN6513-1202

The SpaceLogic KNX power supply generates the bus voltage for the KNX line. The power supply has two outputs – one KNX output with integrated choke and one DC 30 V output for additional devices. Two identical power supply units can be connected in parallel to double the output current.

MTN6513-1203

The power supply has a floating signalling contact for operation and diagnostic messages.

### Features:

Version

Nominal current can be distributed as desired. Reset button to disconnect the power and reset the bus devices. Short-circuit proof. Surge-proof. Open-circuit proof. For operation in installations with emergency power

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

Nominal voltage: 220-240 V AC, Mains frequency: 50/60 Hz Power dissipation: max. 1.8 W KNX Medium: TP256

Bus output voltage: 28-31 V DC SELV Bus output current: 320 mA (all outputs)

DC 30 V output voltage: 30 V DC Signal output: 12-230 V AC, 2-30 V DC Switching current: 5 mA ... 2

Buffer time: ca. 200 ms at 230 V A Device width: 4 TE = approx. 72 mm Contents: With bus connecting terminal and cable cover.

The SpaceLogic KNX power supply generates the bus voltage for the KNX line. The power supply has two outputs - one KNX output with integrated choke and one

DC 30 V output for additional devices. Two identical power supply units can be connected in parallel to double the output

The power supply has a floating signalling contact for operation and diagnostic messages.

### Features:

Nominal current can be distributed as desired. Reset button to disconnect the power and reset the bus devices. Short-circuit proof. Surge-proof. Open-circuit proof. For operation in installations with emergency power

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

Nominal voltage: 220-240 V AC, Mains frequency: 50/60 Hz Power dissipation: max. 2.9 W KNX Medium: TP256

Bus output voltage: 28-31 V DC SELV Bus output current: 640 mA (all outputs) DC 30 V output voltage: 30 V DC

Signal output: 12-230 V AC, 2-30 V DC Switching current: 5 mA ... 2 A Buffer time: ca. 200 ms at 230 V

Device width: 4 TE = approx. 72 mm Contents: With bus connecting terminal and

cable cover.



### SpaceLogic KNX Power Supply 1280 mA



Version

### MTN6513-1201

Art. no.

The SpaceLogic KNX power supply generates the bus voltage for the KNX line. The power supply has two outputs - one KNX output with integrated choke and one DC 30 V output for additional devices

The power supply has a floating signalling contact for operation and diagnostic messages. Features:

Nominal current can be distributed as desired. Reset button to disconnect the power and reset the bus devices. Short-circuit proof. Surge-proof. Open-circuit proof. For operation in installations with emergency power supply.

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

Nominal voltage: 220-240 V AC, Mains frequency: 50/60 Hz Power dissipation: max. 6.4 W KNX Medium: TP256

Bus output voltage: 28-31 V DC SELV Bus output current: 1280 mA (all outputs) DC 30 V output voltage: 30 V DC Signal output: 12-230 V AC, 2-30 V DC

Switching current: 5 mA ... 2 A Buffer time: ca. 200 ms at 230 V Device width: 6 TE = approx. 108 mm

Contents: With bus connecting terminal and cable cover.





# SpaceLogic KNX power supply





ht grey	MTN684032	light grey	MTN683832
ersion	Art. no.	Version	Art. no.

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.

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-

Device width: 4 TE = approx. 72 mm Contents: With bus connecting terminal and cable cover.

For generating the bus voltage for a line with up to 64 bus devices. The emergency power

SpaceLogic KNX power supply REG-

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

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-circuitproof

Device width: 4 TE = approx. 72 mm Accessories: SpaceLogic KNX REG emergency power supply MTN683901

Contents: With bus connecting terminal and

cable cover.

# **System Components**



## SpaceLogic KNX power supply

Version

light grey



# -0.000000

Version Art. no. light grey MTN683890

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.

Art. no.

MTN684064

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

Nominal voltage: AC 110-230 V ±10% Operating voltage: min. AC 92 V - max. AC

Mains frequency: 50-60 Hz  $\pm 10\%$ Output voltage: DC 30 V

Output current: max. 640 mA, short-circuit-

**Device width:** 4 TE = approx. 72 mm Contents: With bus connecting terminal and cable cover.

REG-K/640 mA with emergency power input

SpaceLogic KNX power supply

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

Nominal voltage: AC 110-230 V ±10% Operating voltage: min. AC 92 V - max. AC

Mains frequency: 50-60 Hz ±10%

Output voltage: DC 30 V

Output current: max. 640 mA, short-circuit-

Device width: 4 TE = approx. 72 mm Accessories: SpaceLogic KNX REG emergency power supply MTN683901

Contents: With bus connecting terminal and

cable cover.



### SpaceLogic KNX REG emergency power supply

Art. no.



Version

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.

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

Buffer time with lead gel battery 7,2 Ah:

683890: approx. 0.5 h 683832: approx. 1 h 683816: approx. 2 h

Buffer time with lead gel battery 18 Ah:

683890: approx. 1.25 h 683832: approx. 2.5 h 683816: approx. 5 h **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

SpaceLogic KNX power supply REG-K/320 mA with emergency power input MTN683832 SpaceLogic KNX power supply REG-K/640 mA with emergency power input MTN683890 Accessories: Lead gel battery MTN668990

Lead gel battery

MTN668991

Lead gel battery

Binary input REG-K/4x24 MTN644892

SpaceLogic KNX Power supply REG, DC 24 V/0,4 A MTN693003

Contents: With connecting terminal and cable cover





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Pressorie		MARINE TO THE PARTY OF T	
Version	Art. no.	Version	Art. no.
7.2 Ah	MTN668990	18 Ah	MTN668991
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: SpaceLogic KNX REG emergency power supply MTN683901		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: SpaceLogic KNX REG emergency power supply MTN683901	

# **System Components**

### **KNX Secure System coupler**







### **KNX Security**

The KNX standard was extended by KNX Security to protect KNX installations from unauthorized access. KNX Security reliably prevents the monitoring of communication as well as the manipulation of the system.

The specification for KNX Security distinguishes between KNX IP Security and KNX Data Security. KNX IP Security protects the communication over IP while on KNX TP the communication remains unencrypted. Thus, KNX IP Security can also be used in existing KNX systems and with non-secure KNX TP devices.

KNX Data Security describes the encryption at telegram level. This means that the telegrams on the twisted pair bus are also encrypted.

### KNX IP Security for the router function

The coupling of individual KNX TP lines via IP is referred as KNX IP routing. Routing communication is encrypted with KNX IP Security. This means that only IP devices that know the encryption key can decrypt the communication and send valid telegrams. A time stamp in the routing telegram ensures that no previously recorded telegrams can be replayed. This prevents the so-called replay attack.

The key for the routing communication is reassigned by ETS for each installation. If KNX IP Security is used for routing, all connected KNX IP devices must support security and be configured accordingly.

### KNX IP Security for the interface function

When using a KNX IP device as an interface to the bus, access to the installation is possible without security for all devices that have access to the IP network. With KNX Security a ETS project password is required. A secure connection is already established for the transmission of the password. All communication via IP is encrypted and secured. In both modes, the interface forwards both encrypted and unencrypted KNX telegrams. The security properties are checked by the respective receiver or tool.

### KNX Data Security for the device

The KNX secure device also supports KNX Data Security to protect the device from unauthorized access from the KNX bus. If the KNX secure device is programmed via the KNX bus, this is done with encrypted telegrams.

NOTE: Encrypted telegrams are longer than the previously used unencrypted ones. For secure programming via the bus, it is therefore necessary that the interface used (for example, USB-, IP-interface) and any intermediate line couplers support the so-called KNX long frames.



**Devices supporting KNX Security** 



### SpaceLogic KNX Coupler DIN Rail



Version

MTN6500-0101

For logical connection and electrical isolation of lines and areas.

Art. no.

The device supports KNX Security. This option can be activated in the ETS. As a secure line coupler, the device enables the forwarding of both secured and unsecured communication. In addition, access to the device itself (e.g. for a download) is protected by KNX Security.

The device has a filter table (8k bytes) and ensures a galvanic separation between the lines. The coupler supports KNX longframes and is compatible with the ETS 5 software. With 2 integrated push-buttons for testing purpose and 3 status LEDs.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using bus

KNX software functions: The device can be used as a area / line coupler or as a repeater for forming line segments in existing or new KNX systems. The function as a coupler or repeater can be parameterised.

### Functions as coupler:

Use as a area or line coupler depending on the physical address. Reduction of the bus load through the filter function (filter table). Support of the full address area (Group 0-31) with filter function. Forwarding of individual addressed telegrams (sub line => main line, main line => sub line) can be parameterised. Forwarding of group telegrams (sub line => main line, main line => sub line) can be parameterised. Telegram repetitions in the event of transmission errors can be set separately for group telegrams, broadcast telegrams and physically addressed telegrams. Telegram confirmation for group telegrams and physically addressed telegrams can be parameterised separately.

### Functions as repeater:

Expansion of a line into segments. Telegram repetitions in the event of transmission errors can be set separately for group telegrams, broadcast telegrams and physically addressed

**Device width:** 1 modules = approx. 18 mm

Note: This application requires ETS 5 or higher.

Contents: With 2 bus connecting terminals and 2 cable covers.

### SpaceLogic KNX IP Router DIN Rail



Version

Art. no.

### MTN6500-0103

The SpaceLogic KNX IP Router allows forwarding of telegrams between different lines through a LAN (IP) as a fast backbone. In addition this KNX IP Router is suited to connect a PC to the KNX network e.g. for ETS programming.

The KNX IP Router supports KNX Security which can be enabled in ETS. As secure router the device allows coupling of not secured communication on KNX TP to a secured IP backbone. For the interface functionality (tunneling) KNX security prevents from unauthorized access. The router supports up to 8 tunneling channels. For each tunneling channel a separate individual address must be configured. The IP address can be obtained by a DHCP server or by manual configuration (ETS) respectively. This KNX IP Router works according to the KNXnet/ IP specification using the core, the device management, the tunneling and the routing part. The SpaceLogic KNX IP Router has an extended filter table for main group 0..31 and is able to buffer up to 150 telegrams. The Router is powered by the KNX bus. An additional power supply is not needed. With 2 integrated push-buttons for testing purpose and 3 status LEDs. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal. The LAN network is conneted via RJ45 socket.

Device width: 1 module = approx. 18 mm

Note: This application requires ETS 5 or higher. Contents: With bus connecting terminal and cable cover.

# **System Components**





LSB02779 / 11.2023

### SpaceLogic KNX IP Interface DIN Rail



Version

### MTN6502-0105

Art. no.

The SpaceLogic KNX IP Interface is an interface between IP and KNX. You can access the KNX Bus from every point of your LAN. The SpaceLogic KNX IP Interface can be used as programming interface for ETS 5 Software and allows to access the KNX bus over the Internet

The device supports KNX Security which can be enabled in ETS. With its interface functionality (tunneling) KNX security prevents from unauthorized access. The device supports up to 8 tunneling channels. For each tunneling channel a separate individual address must be configured. With 2 integrated push-buttons to select the tunneling channel and 3 status LEDs. The Interface is powered by the KNX bus. An additional power supply is not needed.

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal. The LAN network is conneted via RJ45 socket.

Device width: 1 module = approx. 18 mm Note: This application requires ETS 5 or higher

Contents: With bus connecting terminal and cable cover.

### SpaceLogic KNX USB Interface DIN Rail



Version Art. no.

### MTN6502-0101

For connecting a programming or diagnostics device with a USB 2.0 interface to the KNX. The  $\,$ USB connector (Type C) is galvanic isolated from the KNX bus. It can be used as a programming interface for ETS Software Version 4 (or higher).

The device is programmed locally with the physical address and does not have a programming button and programming LED. With 2 status LEDs.

The KNX USB interface supports KNX "longframe" communication and is compatible with KNX security telegrams / devices. This allows faster KNX downloads if supported by the target device (e.g. MTN6725-0001).

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

Device width: 1 module = approx. 18 mm

Contents: With bus connecting terminal and cable cover.

### System coupler





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

KNX software functions: The device can be used as a backbone / line coupler or as a repeater for forming line segments in existing or new KNX systems. The function as a coupler or repeater can be parameterised.

### Functions as coupler

Use as a backbone or line coupler depending on the physical address. Reduction of the bus load through the filter function (filter table). Support of the full address area (Group 0-31) with filter function. Forwarding of physically addressed telegrams (line => main line, main line => line) can be parameterised. Forwarding of group telegrams (line => main line, main line => line) can be parameterised. Telegram repetitions in the event of transmission errors can be set separately for group telegrams, broadcast telegrams and physically addressed telegrams. Telegram confirmation for group telegrams and physically addressed telegrams can be parameterised separately.

### Functions as repeater

Expansion of a line to max. 4 line segments with up to 64 participants each (incl. line coupler or repeater). Telegram repetitions in the event of transmission errors can be set separately for group telegrams, broadcast telegrams and physically addressed telegrams. With repeaters, the telegrams are always forwarded.

Device width: 2 modules = approx. 36 mm

Note: With the coupler/repeater 7116/1.1 application, the entire group address range from 0 to 31 can be used for the filter function of the coupler (support for extended group addresses). This application requires ETS 4.1 or higher.

Contents: With 2 bus connecting terminals

### KNX/IP router REG-K



light grey	MTN680329	Discontinued	June 2020
Version	Art. no.		
E P P			

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.

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: SpaceLogic KNX Power supply REG, DC 24 V/0,4 A MTN693003

SpaceLogic KNX Power supply REG, AC 24 V/1 A MTN663529

Also alternatively Power over Ethernet (PoE).

Note: With version 0C and higher, a total of up to 5 simultaneous connections is supported

Contents: With bus connecting terminal.

# **System Components**

### System accessories





## Bus connecting terminal

Version

red/dark grey





Version

Branch terminal, yellow/white

Art. no. MTN689701 yellow/white

For connecting max. 4 core pairs to an KNX device, can also be used as a branch 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

Art. no. MTN689702 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

Contents: 1 PU = 50 terminals.

### IR universal remote control



Version Art. no. black/white MTN5761-0000

10 channel IR remote control. For the control of all TELE sensor covers, blind push-buttons with IR receiver, presence detectors with IR receivers and KNX devices with IR receivers.

Battery: 2 microcells (IEC LR 0.3 AAA)

(not included) Range: up to 12 m

Receiver: TELE sensor cover System M MTN5779.., MTN5703...

Blind push-button with IR receiver and sensor connection System M MTN5880.., MTN5864...

ARGUS Presence Master with IR, relay 1-gang MTN5510-1119 ARGUS Presence Master with IR, relay 2-gang MTN5510-1219

ARGUS Presence Master with IR, 1-10 V MTN5510-1419

ARGUS Presence Master with IR, DALI MTN5510-1519

KNX ARGUS Presence with light control and IR receiver MTN6309.

Push-button, 4-gang plus with IR receiver System M MTN6279.., MTN6175..

KNX 1-gang push-button with IR receiver Altira ALB4x152

Unica MGU3.532.18, MGU3.532.25

Unica Top MGU3.532.12, MGU3.532.30

Unica MGU5.532.18, MGU5.532.25

Unica Top MGU5.532.12, MGU5.532.30

Push-button 4-gang plus with room temperature control unit System M MTN6214-03.. /-04..

Contents: Without battery.



### Logic module



### SpaceLogic 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.

### 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

## SpaceLogic KNX

# **Energy Management**

### **Energy measurement**



LSB02779 / 11.2023

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



Version Art no

MTN6600-0603 liaht arev

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 seperatly 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 Management**



### SpaceLogic KNX Metering Gateway Modbus REG-K



Version Art. no. MTN6503-0201 light grey

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

# Interfaces/Gateways

### **Data interfaces**









### SpaceLogic KNX IP Interface DIN Rail



Version



Art no

### MTN6502-0105

The SpaceLogic KNX IP Interface is an interface between IP and KNX. You can access the KNX Bus from every point of your LAN. The SpaceLogic KNX IP Interface can be used as programming interface for ETS 5 Software and allows to access the KNX bus over the Internet

The device supports KNX Security which can be enabled in ETS. With its interface functionality (tunneling) KNX security prevents from unauthorized access. The device supports up to 8 tunneling channels. For each tunneling channel a separate individual address must be configured. With 2 integrated push-buttons to select the tunneling channel and 3 status LEDs.

The Interface is powered by the KNX bus. An additional power supply is not needed. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal. The LAN network is conneted via RJ45 socket.

Device width: 1 module = approx. 18 mm

Note: This application requires ETS 5 or higher.

Contents: With bus connecting terminal and cable cover.

### SpaceLogic KNX USB Interface DIN Rail



Version Art. no.

### MTN6502-0101

For connecting a programming or diagnostics device with a USB 2.0 interface to the KNX. The USB connector (Type C) is galvanic isolated from the KNX bus. It can be used as a programming interface for ETS Software Version 4 (or higher).

The device is programmed locally with the physical address and does not have a programming button and programming LED. With 2 status LEDs.

The KNX USB interface supports KNX "longframe" communication and is compatible with KNX security telegrams / devices. This allows faster KNX downloads if supported by the target device (e.g. MTN6725-0001).

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

Device width: 1 module = approx. 18 mm

Contents: With bus connecting terminal and cable cover.

Art. no.

### USB interface REG-K



Version

MTN681829 Discontinued

For connecting a programming or diagnostics device with a USB1.1 or USB2.0 interface to the

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

Device width: 2 modules = approx. 36 mm

Contents: With bus connecting terminal and cable cover.

# Interfaces/Gateways





Cen	Central plate with square opening			
Vers	sion	Art. no.		
	white, glossy	MTN296044		
	polar white, glossy	MTN296019		
	active white, glossy	MTN296025		
	anthracite	MTN297914		
	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

### USB interface, flush-mounted



Version	Art. no.		
	MTN681799	Discontinued	June 2020

For connecting a programming or diagnostics device with a USB1.1 or USB2 interface to the

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 Contents: With bus connecting terminal.

LSB02779 / 11.2023 LSB02779 / 11.2023 62 schneider-electric.com

Life is On | Schneider Electric

### Wiser for KNX

### **KNX** home automation

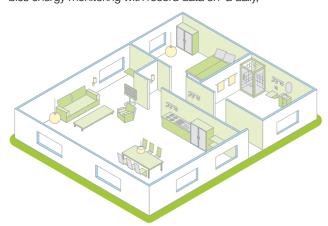
Wiser for KNX is the perfect choice for houses, collective homes and flats. With 150 BACnet points it is perfectly suitable for an integration in a large building management system of the complete residential building.

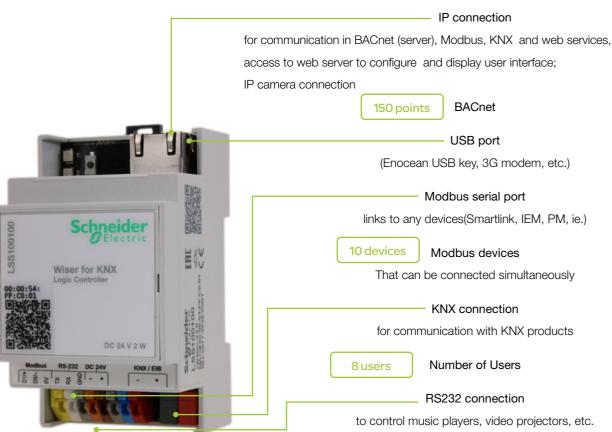
Wiser for KNX connects KNX systems and Modbus meters, which conveniently allows control of building functions like lights, shutters and heating and enables energy monitoring with record data on a daily,

monthly and yearly basis. Wiser for KNX enables to create advanced logic functions in order to opti-mize energy efficiency and comfort at home.



is perfectly set for residential buildings





## Wiser for KNX

### **Wiser for KNX**

























### Wiser for KNX



Version

Art. no. LSS100100

Wiser for KNX is the perfect choice for single or multi-family houses or residential complexes and integrates a wide range of control functions to improve comfort, security and flexibility for the residents and owners. The system is future proof, interoperable, and scalable. With its integrated visualization, the installation's energy consumption can be displayed and monitored through PC's and mobile devices. The stored data can also be exported for further analysis (e.g. as .CSV).

### Features:

- Freely programmable logic controller with integrated web server
- Configurable visualization alternatives: Custom Visualization or Touch (through Widgets) for PC and mobile devices
- Marketplace with applications to download and extend the controller's functionality
- Sonos and Revox sound systems integration
- Somfy and Danfoss Integration
- Philips Hue support
- IFTTT support
- Multi-protocol gateway between KNX (TP / IP) and Modbus RTU / TCP + BACnet IP
- HTTP / HTTPS / NTP / FTP servers
- Integration of IP cameras
- Data logger with trend display and export function
- Modbus (10 devices)
- Integrated USB port (additional memory, EnOcean & GSM dongles)
- Freely programmable scheduler
- IP router
- Scenes module ■ E-mail and SMS
- Easy visualization configuration through eConfigure

Supply voltage: 24 V DC (not included)

Power consumption: 2 W

Display elements:

- LED indicator 1: Green LED (CPU load)

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

Controls: 1x reset button

Interface: 1x KNX TP1, 1x RJ45 Ethernet 10/100 Mbit/s, 1x RS-485 (incl. Polarization resistor 47 kΩ, no termination), 1x RS-232, 1x USB 2.0

### Terminals:

- KNX bus: Bus terminal 2 x 0.8 mm

Power supply: 0.5 mm²-1.5 mm²
 Serial interfaces: 0.5 mm²-1.5 mm²

Operation: -5°C to +45°C **Dimension:** 90 x 52 x 58 mm (HxWxD)

Device width: 3 modules = approx. 54 mm

To be completed with: SpaceLogic KNX Power Supply 24VDC - 0,4A (MTN693003).



Solutions are tested and validated according to Schneider Electric process

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# space LYnk

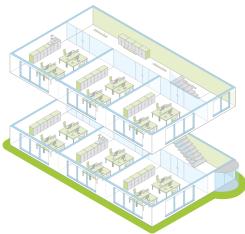
## **Building automation**

In buildings spaceLYnk provides the ideal solution. Thanks to 2000 BACnet points spaceLYnk can easily be integrated into complete building management systems.

spaceLYnk allows efficient facility management thanks to the convenient web-based user interface with maintenance information like lamp statuses

and easy scheduling of all building functions. The webbased interface is accessible from everywhere, enabling remote maintenance.





# IP connection for communication in BACnet (server), Modbus, KNX and web services, access to web server to configure and display user interface; IP camera connection 2000 points **BACnet** USB port (Enocean USB key, 3G modem, etc.) Modbus serial port links to any devices(Smartlink, IEM, PM, ie.) 31 devices Modbus devices That can be connected simultaneously KNX connection for communication with KNX products >50 users Number of Users RS232 connection to control music players, video projectors, etc. **Available** IP/TP KNX filtering Quick IP/TP KNX filtering on object tab

# space LYnk

### spaceLYnk





### spaceLYnk



### LSS100200

spaceLYnk is the ideal solution for commercial buildings. Thanks to its 2,000 BACnet data points and 31 Modbus devices, spaceLYnk can be effortlessly integrated into complete energy and building management systems

### SpaceLYnk can be used:

- As a KNX logic controller for the creation of complex building automation solutions
- As a building automation solution for small and medium-sized buildings with complete control including LRC (lighting and room control (KNX)) and measurement technology (Modbus devices, Smartlink RTU and IP)
- As a Cross-sector communication for large buildings with complete control via SBO EcoStruXure  $^{\text{TM}}$  (BMS from Schneider Electric).
- As a gateway for communication between different products and protocols.
- As a data storage device, for analyzing and exporting the data (e.g. as .csv).
- As a user interface for the display and control of relevant information on PCs and mobile devices.

### Features:

- Freely programmable logic controller with integrated web server
- WEB SCADA visualization for PC and mobile devices
- Marketplace with applications to download and extend the controller's functionality
- IFTT support
- Multi-protocol gateway between KNX (TP / IP) and Modbus RTU / TCP + BACnet IP
   HTTP / HTTPS / NTP / FTP servers
- BACnet server (2000 data points)
- Modbus (31 devices) ■ Login visualization (>50 users)
- User management tool to define user access and visibility
- Predefined Modbus templates
- BACnet certified "BACnet Application Specific Controller (B-ASC)"
- Integration of IP cameras
- Simple function block programming
- Integrated USB port (additional memory, EnOcean & GSM dongles)
- Freely programmable scheduler
- IP router
- Scenes module
- E-mail and SMS
- Easy visualization configuration through eConfigure
- KNX IP Secure compatibility

Supply voltage: 24 V DC (not included)

Power consumption: 2 W

Display elements:

- LED indicator 1: Green LED (CPU load)

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

Controls: 1x reset button

Interfaces: 1x KNX TP1, 1x RJ45 Ethernet 10/100 Mbit/s, 1x RS-485 (incl. Polarization resistor 47 kΩ, no termination), 1x RS-232, 1x USB 2.0

### Terminals:

- KNX bus: Bus terminal 2 x 0.8 mm

Power supply: 0.5 mm²-1.5 mm²
 Serial interfaces: 0.5 mm²-1.5 mm²

Operation: -5°C to +45°C

Dimension: 90 x 52 x 58 mm (HxWxD) Device width: 3 modules = approx. 54 mm

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Solutions are tested

to Schneider Electric

process

and validated according

# SpaceLogic KNX

# **BMS IP Gateway**

### **BMS IP Gateway**







### SpaceLogic KNX BMS IP Gateway



Version

sion	Art. no.	
,	LSS100300	

The SpaceLogic KNX BMS IP Gateway is a bidirectional multifunctional device that allows integration of Spacelogic KNX installations within Ecostruxure Building Operation. The main communication interface is KNX TP with BAC protocol.

New

The device combines three functions in one device:

- KNX IP router (max. 500 objects)
- KNX IP interface
- DPSU choke power supply

The Gateway is designed for commercial installations and certified by BTL as Application Specific Controller (B-ASC) which ensures 100% compatibility, and at the same time, guarantees a seamless integration with any BACnet device.

- Number of BACnet objects: 4,000
- Number of BACnet subscriptions (COV) requests: 4,000
- KNX group objects: 4,000
- KNX IP routing objects: 500
- KNX IP Secure compatibility
- KNXP IP tunneling, commissioning of KNX devices, long frame support
- HTTP / HTTPS / NTP servers
- Direct import of \*knxproj file with automatic filtering tables

Power supply voltage: DC 12 V - 30 V SELV

Power Supply DPSU choke: DC 21 V - 31 V SELV

DPSU choke: rated current max. 320 mA, chort circuit proof, tripping current ≤1A

Display elements:

- LED indicator 1: Green LED (CPU load)
- LED indicator 2: Green LED (Operation) or Red LED (Reset)

Controls: 1x reset button, 2 jumpers (PoE and POW) Interfaces: 1x RJ45 Ethernet 10/100 Mbit/s

- KNX bus: Bus terminal 2 x 0.8 mm
- Power supply/Power supply DPSU choke: 2-gang/3gang pluggable screw terminal for

max. 2x 0.5 mm<sup>2</sup>-1.5 mm<sup>2</sup>

Protection type: IP20

Ambient temperature operation: 0°C to +45°C Device width: 4 modules = approx. 72 mm

**BACnet Protocol Revision: 22** 

BACnet Device Profile: B-ASC, B-GW

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# Hybrid Module

### **Hybrid Module**



LSB02779 / 11.2023

### SpaceLogic KNX Hybrid Module



white	LSS100400	New
VEISIOII	Art. 110.	

The Hybrid Module integrates ZigBee wireless devices from Wiser™ offer to an installation that is realized with the controller Wiser for KNX (LSS100100) or spaceLYnk (LSS100200). The user is then able to control Wiser™ devices from their KNX installation and control KNX devices from their Wiser™ devices. The Hybrid Module and its configuration plugin is designed for residential and commercial installations.

The Hybrid Module is powered by separate 24 V power supply and connected to the controller via RS232 communication interface. Once the ZigBee devices are paired with the controller, they are mapped in KNX objects and can be used like any other KNX device. Moreover when Wiser for KNX is used, the wireless devices can be controlled via the Wiser KNX app (Wiser KNX App, available in specific countries).

Because the list of Wiser devices is constantly growing, please visit <a href="https://www.go2se.com/">https://www.go2se.com/</a> ref=LSS100400 in order to refer manual for latest supported device list. The supported devices may vary depending on the country.

### Features:

- Hybrid Plugin is available on Marketplace always up to date
- Easy integration and configuration of ZigBee wireless devices
- Automatic upgrade of the firmware of the Hybrid Module and connected ZigBee wireless devices so the installation is always well maintained and up to date

Supply voltage: DC 24 V

Display elements: LED bicolor (Red/Orange)

Interfaces: Antenna, RS232 communication (TX, RX, GND) and DC 24 V power supply(-/+)

Ambient temperature operation: 0°C to +45°C Device width: 1 modules = approx. 18 mm

### Antenna

Transmitting frequency: 2405 MHz ... 2480 MHz Transmitting power: max. +10 dBm (10 mW)

Cable length: 3 m

Scope of delivery: SpaceLogic KNX Hybrid Module, SpaceLogic KNX Hybrid Antenna

LSS100410

# SpaceLogic KNX Hybrid Antenna



### Spare part.

Hybrid Antenna for connection to the SpaceLogic KNX Hybrid Module. The antenna is placed outside the cabinet. With magnetic base

Transmitting frequency: 2405 MHz ... 2480 MHz Transmitting power: max. +10 dBm (10 mW)

Cable length: 3 m



## SpaceLogic KNX

# Control and Display Devices

### Control and display devices





# SpaceLogic KNX Touch IP 7 Version Art. no. white MTN6260-7770 New black MTN6260-7760 New

The SpaceLogic KNX Touch IP 7 inch is a touch screen used to display the visualization from Wiser for KNX or spaceLYnk logic controllers. It can be installed in both Residential and Commercial buildings and in new or existing KNX installations.

The touch panel can display the widget-based Touch visualization or the PC/Tablet visualization with the possibility of realistic graphics. It can also display the new Wiser KNX App, in case the user would like to control their KNX installation in a similar way as from his Smartphone.

All interaction with the touch panel is very easy and efficient, adapted to the needs of the

All interaction with the touch panel is very easy and efficient, adapted to the needs of the modern concept of smart homes and buildings. The installation can be done horizontally or vertically allowing landscape or portrait mode.

The touch panel is equipped with an embedded application, making the configuration easy and fast. Thanks to WiFi connectivity the installation of touch panel is easier and provides a freedom in choosing of installation location.

An over the air update (OTAU) feature available in the touch panel keeps the solution always up to date and secure. The Touch Panel can be installed surface mounted, anywhere were there would be a 24 V cables to power it.

### TouchPanel

Screen diagonal: 17.47 cm (7")

Resolution: 1024 x 600

Type: Colorful TFT LCD & multi-touch capacitive screen

### Horizontal orientation

Vertical top / bottom viewing angle: 30° / 70°

Horizontal right / left viewing angle:  $70^{\circ}$  /  $70^{\circ}$ 

### Vertical orientation

Vertical top / bottom viewing angle: 70° / 70° Horizontal right / left viewing angle: 30° / 70°

### Power

2-wire power supply: DC 24 V

Current consumption in standby state (mA): 90 mA

Current consumption in activestate (mA): 240 mA

### Wi-Fi®

Frequency band: IEEE 802.11 a/b/g/n/ac 2.4/5 GHz (2400-2483.5 MHz, 5150-5250 MHz)

### **Environmental conditions**

Operating temperature: -10 °C to +55 °C

Operating Humidity: 0% to 95% RH no condensing

Storage temperature: -25 °C to +70 °C Storage humidity: 0 % to 95 % RH no condensing

IP rating: IP30

### Dimensions and weight

Dimensions (W x H x D): 132.76 x 196.65 x 23.91 mm

Weight: 448 g / 814 g (with package)

### Location

When choosing the installation location, the maximum cable length must be observed. The following shows the lengths from the touch panel to the respective assemblies in the system.

- YR 2x0.8 mm, J-Y(ST)Y 2x2x0.8 mm, A-2Y(L)2Y 2x2x0.8 mm: cable must not be longer than 120 m.
- A-2Y(L)2Y 2x2x0.6 mm, J-Y(ST)Y 2x2x0.6 mm: cable must not be longer than 80 m.

# Control and Display Devices



### SpaceLogic KNX 4" Touch Unit





Version

Art. no.

lass MTN6215-0410 Ne

The 4" Touch unit is a room controller designed to be the center of the smart home. Premium materials and a high-quality display with built-in sensors offer a wide range of applications.

The slim design of the product fits perfectly into the modern concept of today's smart installations and architecture. The product can be used in both residential and commercial projects. The product has a modern, seamless user interface that provides an immersive experience every time it is used, with the display waking up simply by moving closer thanks to the proximity sensor.

The display has up to 9 screens that can display individual functions as widgets. This allows you to have different combinations of up to 6 widgets on each screen and effectively control all connected systems. You move between screens with a simple swipe, familiar from traditional smartphone use.

### User Interface functions:

- Different UI theme style
- Screen saver
- Orientation indicator
- Proximity function triggered by object
- Setting the backlight in normal/night mode
- Setting the appearance of the screen

### Main functions

- Brightness dimming
- RGB dimming
- RGBW dimming
- Colour temperature dimmingVenetian blind position and slat
- Air conditioner control
- Room temperature control
- Ventilation control
- Audio control

### **HVAC** controller functions:

- FCU controller: switching on/off (2-point control), switching PWM (PI control), continuous control (PI control)
- Floor heating controller
- Ventilation controller

General: Scene group function, 8 logic function channels (AND; OR, XOR, threshold comparator, format converter) each with 8 inputs

Power supply from KNX: DC 21-30 V approx. 24 V/3 mA Auxiliary Power supply: DC 21-30 V approx. 24 V/85 mA Screen: 10 cm (3.05") LCD 480 x 480 pixels

Screen: 10 cm (3.95") LCD, 480 x 480 pixels Measuring accuracy:  $\pm 1$  °C at 25 °C

IP protection rating: IP 20 Dimensions WxHxD: 86 x 86 x 32 mm

Accessories: Dismantling protection MTN6270-0000
Note: Programmable with ETS5 and higher.

# Control and Display Devices



#### **KNX Multitouch Pro**



Version

#### MTN6215-0310

Art. no.

#### For System M.

Comfortable room controller for controlling up to 32 room functions and the room temperature. All functions are displayed on a touch screen and are called up using simple finger movements. The user chooses from 3 interface designs that can be freely assigned to the room functions. The room temperature control can be shown in 2 different designs. With room temperature control unit, display and connection for the remote 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.

#### ETS device functions:

- Switch-on behaviour of the user interface
- Proximity function: The display and the start screen only become visible when approached ■ Gesture function: The device recognises a gesture (horizontal or vertical swipe movement)
- and triggers a function. In this way, the light can be switched on when you enter the room, for example.
- Cleaning mode: For a specific period of time, neither touches nor gestures are detected
- Adjusting the background lighting
- Setting the screen saver

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

#### KNX software functions:

#### Control unit/push-button:

Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams, pulse edges with 2-byte telegrams, 8-bit linear regulator, scene retrieval, scene saving, signal function, fan control, operating modes, setpoint adjust-

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

Controller type: 2-step controller, continuous-action 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
- 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 (ECO), night reduction, frost/heat

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. Signal function for the actual temperature, valve protection function

Scene function.

Operation: Touch display

Accessories: Dismantling protection MTN6270-0000

Remote sensor for universal room temperature control unit

with touch display MTN5775-0003 Note: Programmable with ETS4 and higher.

Contents: With bus connecting terminal and supporting plate.

# SpaceLogic KNX

# Control and Display Devices



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#### **KNX Multitouch Pro**



Version

Art. no.

#### MTN6215-5910

#### For System D.

Comfortable room controller for controlling up to 32 room functions and the room temperature. All functions are displayed on a touch screen and are called up using simple finger movements. The user chooses from 3 interface designs that can be freely assigned to the room functions. The room temperature control can be shown in 2 different designs.

With room temperature control unit, display and connection for the remote 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.

#### ETS device functions:

- Switch-on behaviour of the user interface
- Proximity function: The display and the start screen only become visible when approached
- Gesture function: The device recognises a gesture (horizontal or vertical swipe movement) and triggers a function. In this way, the light can be switched on when you enter the room, for example.
- Cleaning mode: For a specific period of time, neither touches nor gestures are detected
- Adjusting the background lighting
- Setting the screen saver

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

#### KNX software functions:

#### Control unit/push-button:

Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams, pulse edges with 2-byte telegrams, 8-bit linear regulator, scene retrieval, scene saving, signal function, fan control, operating modes, setpoint adjust-

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

Controller type: 2-step controller, continuous-action 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
- 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 (ECO), night reduction, frost/heat

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. Signal function for the actual temperature, valve protection function

Scene function.

Operation: Touch display

Accessories: Dismantling protection MTN6270-0000

Remote sensor for universal room temperature control unit with touch display MTN5775-0003

Fixing frame for 3-module box MTN6270-0015 D-Life frame, 1-gang, for 3-module box MTN6010-65xx

Note: Programmable with ETS4 and higher.

Contents: With bus connecting terminal and supporting plate.

# **Control and Display Devices**



#### Dismantling protection



Version

Art. no.

#### MTN6270-0000

Prevents the KNX Push-buttons Pro/Pro T, KNX Multi-Touch Pro, and 4" Touch Unit from being removed easily

In KNX, to be completed with:

KNX Push-button ProT

System M MTN6185-03/04

System Design MTN6185-60.

KNX Push-button Pro

System M MTN6180-03/04. System D MTN6180-60..

System D MTN6181-6035

KNX Multitouch Pro System M MTN6215-03...

System D MTN6215-59.. System D MTN6216-5910

SpaceLogic KNX 4" Touch Unit MTN6215-0410

Contents: 2 stainless steel hooks.



# **Control and Display Devices**



#### **KNX Multitouch Pro**



Version

Art. no.

#### MTN6216-5910

#### For the Danish market.

For System D.

Comfortable room controller for controlling up to 32 room functions and the room temperature. All functions are displayed on a touch screen and are called up using simple finger movements. The user chooses from 3 interface designs that can be freely assigned to the room functions. The room temperature control can be shown in 2 different designs.

With room temperature control unit, display and connection for the remote 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.

#### ETS device functions:

- Switch-on behaviour of the user interface
- Proximity function: The display and the start screen only become visible when approached ■ Gesture function: The device recognises a gesture (horizontal or vertical swipe movement)
- and triggers a function. In this way, the light can be switched on when you enter the room, for example
- Cleaning mode: For a specific period of time, neither touches nor gestures are detected
- Adjusting the background lighting
- Setting the screen saver

With integrated bus coupler. The bus is connected using a bus connecting terminal. With fixing frame for DK-Fuga wall box.

#### KNX software functions:

#### Control unit/push-button:

Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams, pulse edges with 2-byte telegrams, 8-bit linear regulator, scene retrieval, scene saving, signal function, fan control, operating modes, setpoint adjust-

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

Controller type: 2-step controller, continuous-action 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
- 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 (ECO), night reduction, frost/heat

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. Signal function for the actual temperature, valve protection function

Scene function.

Operation: Touch display

Accessories: Dismantling protection MTN6270-0000

Remote sensor for universal room temperature control unit with touch display MTN5775-0003

Note: Programmable with ETS4 and higher.

Contents: With fixing frame for DK-Fuga wall box.

With bus connecting terminal.

#### Remote sensor for universal room temperature control unit with touch display



Art. no.

# MTN5775-0003

For use with underfloor heating systems.

To be completed with: Universal temperature control unit insert with touch display MTN5775-0000

Programmable universal temperature control unit insert with touch display MTN5776-0000 KNX Multitouch Pro System M MTN6215-03...

System D MTN6215-59. System D MTN6216-5910



# **Access Control**

#### **Access control**







#### KNX Access Control eSuite+PC



	MTN6903-6300	Discontinued
Version	Art. no.	

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	Discontinued

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	Discontinued
black	MTN6903-6014	Discontinued
aluminium	MTN6903-6060	Discontinued

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 funtion 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: SpaceLogic KNX Power supply REG, 24 V DC / 0.4 A MTN693003, SpaceLogic KNX 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	Discontinued
black	MTN6903-6114	Discontinued
aluminium	MTN6903-6160	Discontinued

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 funtion 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: SpaceLogic KNX Power supply REG, 24 V DC /  $0.4\,A$ 

MTN693003, SpaceLogic KNX 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



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#### **KNX Access Control RTC glass**



Version	Art. no.	
white	MTN6903-6219	Discontinued
black	MTN6903-6214	Discontinued
aluminium	MTN6903-6260	Discontinued

With room temperature control unit and display.

The room temperature control unit can be used for heating and cooling with infinitely adjust-

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

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 Ac-

cess Control RFID Card holder glass MTN6903-61.., KNX Access Control USB card prog. MTN6903-6301, KNX Access Control eSuite+PC MTN6903-6300

#### **Push-buttons design-independent**



#### SpaceLogic KNX 4" Touch Unit





Version

Art. no.

MTN6215-0410

glass

New

The 4" Touch unit is a room controller designed to be the center of the smart home. Premium materials and a high-quality display with built-in sensors offer a wide range of applications.

The slim design of the product fits perfectly into the modern concept of today's smart installations and architecture. The product can be used in both residential and commercial projects. The product has a modern, seamless user interface that provides an immersive experience every time it is used, with the display waking up simply by moving closer thanks to the proximity sensor.

The display has up to 9 screens that can display individual functions as widgets. This allows you to have different combinations of up to 6 widgets on each screen and effectively control all connected systems. You move between screens with a simple swipe, familiar from traditional smartphone use.

#### User Interface functions:

- Different UI theme style
- Screen saver
- Orientation indicator
- Proximity function triggered by object
- Setting the backlight in normal/night mode
- Setting the appearance of the screen

#### Main functions

- Brightness dimming
- RGB dimming
- RGBW dimming
- Colour temperature dimmingVenetian blind position and slat
- Air conditioner control
- Room temperature control
- Ventilation controlAudio control

#### **HVAC** controller functions:

- FCU controller: switching on/off (2-point control), switching PWM (PI control), continuous control (PI control)
- Floor heating controller
- Ventilation controller

General: Scene group function, 8 logic function channels (AND; OR, XOR, threshold comparator, format converter) each with 8 inputs

Power supply from KNX: DC 21-30 V approx. 24 V/3 mA Auxiliary Power supply: DC 21-30 V approx. 24 V/85 mA Screen: 10 cm (3.95") LCD, 480 x 480 pixels Measuring accuracy:  $\pm 1$  °C at 25 °C

IP protection rating: IP 20

Dimensions WxHxD: 86 x 86 x 32 mm

Accessories: Dismantling protection MTN6270-0000 Note: Programmable with ETS5 and higher.

# Push-Buttons

#### **Push-buttons System M**



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KNX	KNX Push-button Pro T		
Vers	sion	Art. no.	
	polar white, glossy	MTN6185-0319	
	active white, glossy	MTN6185-0325	
	anthracite	MTN6185-0414	
	aluminium	MTN6185-0460	

For System M.

Push-button with 1 to 4 operating buttons and integrated temperature sensor for room temperature measurement.

The push button allows two different operation methods: either the normal manual operation via key stroke or the touchless operation triggered by proximity. The touchless operation allows to trigger 1 function, such as toggling or calling up a scene. Both operation methods cannot be performed simultaneously on the same push-button.

In idle state, the surface of the push-button appears as a uniform plane. The labelling of the push-buttons only becomes visible via the backlit symbols after activation. For this purpose, the included prefabricated foils or the individual symbols with various icons.

The position of the operating buttons varies depending on the selected number of operating buttons.

With status indicators.

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

#### ETS device functions:

- Behaviour and brightness of the status indicators
- Night mode: LEDs light up with reduced brightness
- The LEDs are only activated and the functions only become visible when approached.
- Temperature sensor

#### KNX software functions:

With touchless function: toggle, switch on, switch off, call up scene

With normal manual operation there are 2 programming options:

- Express settings: Calls up a pre-set configuration
- Extended settings: Individual configuration

Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4-bit or 1-byte 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, locking function.

Proximity function: triggered by object or sensor, sensitivity adjustment

Temperature sensor: offset setting, sending of the actual temperature in case of a deviation, cyclic sending of the actual temperature

Accessories: Dismantling protection MTN6270-0000

Foil set for KNX Push-button Pro MTN6270-0010

Note: Programmable only with ETS5.

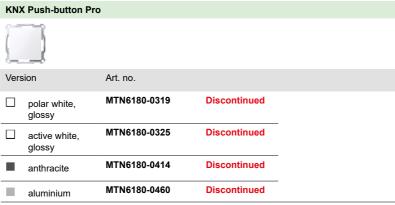
Contents: Device with inserted prefabricated foil.

With bus connecting terminal and supporting plate.

3 prefabricated foils and 24 different individual symbols with 1 carrier foil.







#### For System M.

Push-button with 1 to 4 operating buttons and status displays. In idle state, the surface of the push-button appears as a uniform plane. The inscription of the keys only becomes visible via the backlit symbols following activation. For this, you can use the enclosed prefabricated foils or the individual symbols with various motifs.

The position of the operating buttons varies depending on the selected number of operating buttons.

#### ETS device functions:

- Behaviour and brightness of the status displays
- Night mode: LEDs light up with reduced brightness
- Proximity function: The LEDs are only activated and the functions only become visible when approached.

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

#### KNX software functions:

#### 2 programming options:

- Express setting: Calls up a pre-set configuration
- Advanced setting: Individual configuration

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: Dismantling protection MTN6270-0000

Foil set for KNX Push-button Pro MTN6270-0010

#### Note: Programmable with ETS4 and higher.

Contents: Device with inserted prefabricated foil.

With bus connecting terminal and supporting plate.

3 prefabricated foils and 24 different individual symbols with 1 carrier foil.

#### Foil set for KNX Push-button Pro



Version

Art. no.

#### MTN6270-0010

Spare part

For System M.

For individual marking of the KNX Push-buttons Pro/Pro T.

In KNX, to be completed with: KNX Push-button Pro T MTN6185-03/04..., KNX Push-button

Contents: 3 prefabricated foils and 24 different individual symbols with 1 carrier foil.

# **Push-Buttons**



#### KNX Multitouch Pro



Art. no. Version

#### MTN6215-0310

#### For System M.

Comfortable room controller for controlling up to 32 room functions and the room temperature. All functions are displayed on a touch screen and are called up using simple finger move-

ments. The user chooses from 3 interface designs that can be freely assigned to the room functions. The room temperature control can be shown in 2 different designs.

With room temperature control unit, display and connection for the remote 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.

#### ETS device functions:

- Switch-on behaviour of the user interface
- Proximity function: The display and the start screen only become visible when approached
- Gesture function: The device recognises a gesture (horizontal or vertical swipe movement) and triggers a function. In this way, the light can be switched on when you enter the room, for example.
- Cleaning mode: For a specific period of time, neither touches nor gestures are detected
- Adjusting the background lighting
- Setting the screen saver

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

#### KNX software functions:

#### Control unit/push-button:

Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams, pulse edges with 2-byte telegrams, 8-bit linear regulator, scene retrieval, scene saving, signal function, fan control, operating modes, setpoint adjust-

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

Controller type: 2-step controller, continuous-action 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
- 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 (ECO), night reduction, frost/heat

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. Signal function for the actual temperature, valve protection function

#### Scene function.

Operation: Touch display

Accessories: Dismantling protection MTN6270-0000

Remote sensor for universal room temperature control unit

with touch display MTN5775-0003

#### Note: Programmable with ETS4 and higher.

Contents: With bus connecting terminal and supporting plate.

#### Remote sensor for universal room temperature control unit with touch display



Version

Art. no.

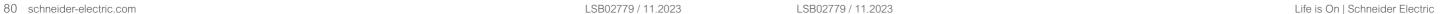
#### MTN5775-0003

For use with underfloor heating systems.

To be completed with: Universal temperature control unit insert with touch display MTN5775-0000

Programmable universal temperature control unit insert with touch display MTN5776-0000 KNX Multitouch Pro System M MTN6215-03...

System D MTN6215-59.. System D MTN6216-5910





#### Dismantling protection



Version

#### MTN6270-0000

Art. no.

Prevents the KNX Push-buttons Pro/Pro T, KNX Multi-Touch Pro, and 4" Touch Unit from being removed easily.

In KNX, to be completed with:

KNX Push-button ProT

System M MTN6185-03/04.

System Design MTN6185-60. KNX Push-button Pro

System M MTN6180-03/04.

System D MTN6180-60..

System D MTN6181-6035

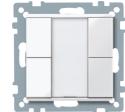
KNX Multitouch Pro System M MTN6215-03...

System D MTN6215-59.. System D MTN6216-5910

SpaceLogic KNX 4" Touch Unit MTN6215-0410

Contents: 2 stainless steel hooks.





Push-button, 1-gang plus		Push-button, 2-gang plus			
Version	Art. no.	Versi	on	Art. no.	
white, glossy	MTN617144		white, glossy	MTN617244	
polar white,	MTN617119		polar white, glossy	MTN617219	
active white,	MTN617125		active white, glossy	MTN617225	
anthracite	MTN627514		anthracite	MTN627614	
aluminium	MTN627560		aluminium	MTN627660	

For System M.

With integrated bus coupling unit. Push-button with 2 operating buttons, operat-

ing 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 func-

Accessories: Labelling sheets for pushbuttons System M MTN6183..

Contents: With protective hood for plaster. With bus connecting terminal

For System M.

orientation light.

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

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 func-

Accessories: Labelling sheets for pushbuttons System M MTN6183.. Contents: With protective hood for plaster.

With bus connecting terminal.

# **Push-Buttons**





Push-button, 4-gang plus			Push-button, 4-gang plus with IR receiver		
Version	Art. no.	Vers	ion	Art. no.	
white, glossy	MTN617444		white, glossy	MTN617544	
polar white, glossy	MTN617419		polar white, glossy	MTN617519	
active white, glossy	MTN617425		active white, glossy	MTN617525	
anthracite	MTN627814		anthracite	MTN627914	
aluminium	MTN627860		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.		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.			

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 func-

Accessories: Labelling sheets for pushbuttons System M MTN6183.. Contents: With protective hood for plaster. With bus connecting terminal.

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 func-

Accessories: Labelling sheets for multifunction push-button with IR receiver System M MTN6184.

Transmitter: IR universal remote control MTN5761-0000

Contents: With protective hood for plaster. With bus connecting terminal.







For individual labelling of the System M pushbuttons 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 multifunction 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.

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#### Protective hood for plaster



Version

#### MTN627591

Art. no.

#### 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 System M MTN6279..., MTN6175..., Push-button 2-gang plus with IR receiver System M MTN6279..., MTN6175..., Push-button 2-gang plus with room temperature control unit System M MTN6210..., 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 MTN6252..., MTN6194..., Rockers for 2-gang push-button module System M MTN6192..., MTN6256..., MTN6195..., Rockers for 2-gang push-button module with up/down arrow imprint System M MTN6256..., MTN6195..., Rockers for 2-gang push-button module with up/down arrow imprint System M MTN6258..., 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-Buttons**



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



Vers	sion	Art. no.
	white, glossy	MTN6212-0344
	polar white, glossy	MTN6212-0319
	active white, glossy	MTN6212-0325
	anthracite	MTN6212-0414
	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.

Will room temperature control unit an

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.

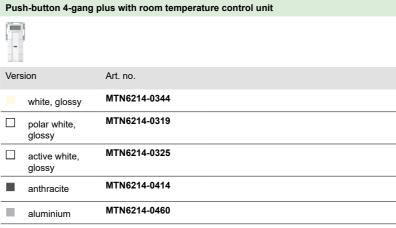
Operation: Menu.

Contents: With bus connecting terminal and supporting plate.

Screw for protection against dismantling.

With protective hood for plaster





#### 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

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

#### KNX software functions:

#### Functions of the push-buttons:

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

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

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

#### Controller mode:

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

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

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

Monitoring function for the actual temperature, valve protection function.

Scene function.

#### Operation: Menu.

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

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

Contents: With bus connecting terminal and supporting plate.

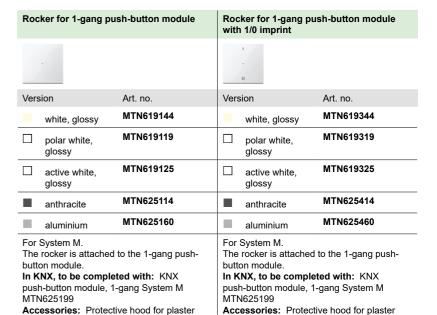
Screw for protection against dismantling.

With protective hood for plaster.

# **Push-Buttons**



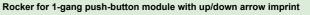




System M MTN627591









System M MTN627591

Version		Art. no.			
whit	te, glossy	MTN619444			
☐ pola	ar white, ssy	MTN619419			
☐ actir	ve white,	MTN619425			
anth	nracite	MTN625514			
alur	ninium	MTN625560			

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



C-farming.	
Version	Art. no.
	MTN625199

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

KNX software functions: The push-buttons can be parameterised either as a pair (dualsurface) 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..

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# **Push-Buttons**





Rockers for 2-gang push-button module			Rockers for 2-gang push-button module with 1/0 and up/down arrow imprint		
Vers	ion	Art. no.	Vers	sion	Art. no.
	white, glossy	MTN619244		white, glossy	MTN619544
	polar white, glossy	MTN619219		polar white, glossy	MTN619519
	active white, glossy	MTN619225		active white, glossy	MTN619525
	anthracite	MTN625214		anthracite	MTN625614
	aluminium	MTN625260		aluminium	MTN625660
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			The butte In K push MTN Acc	on module. NX, to be completen-button module, 2 1625299	2-gang System M stive hood for plaster





	tem M MTN627591	 				
	Rockers for 2-gang push-button module with up/down arrow and 1/0 imprint			Rockers for 2-gang push-button module with up/down arrow imprint		
Vers	sion	Art. no.	Vers	sion	Art. no.	
	white, glossy	MTN619644		white, glossy	MTN619744	
	polar white, glossy	MTN619619		polar white, glossy	MTN619719	
	active white, glossy	MTN619625		active white, glossy	MTN619725	
	anthracite	MTN625714		anthracite	MTN625814	
	aluminium	MTN625760		aluminium	MTN625860	
The butte In K pust MTN	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			on module. NX, to be comple n-button module, 2 N625299	-gang System M ive hood for plaster	

# **Push-Buttons**



#### 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 System D**



#### KNX Push Button Dynamic Labeling, 1-gang



Version	Art. no.	
1-gang	MTN6191-6010	New

The KNX Push Button Dynamic Labeling 1-gang is a push button for 2 rockers on which different functions can be set. The functions are configured in the ETS or eConfigure KNX and then shown accordingly on the display. This type of labeling makes it very easy to change a symbol and text.

#### **ETS** device functions:

- Display: Icons can be selected to match the function and their color and brightness can be configured. Individual text can be placed. Cleaning mode can be configured.
- Temperature measurement by internal sensor and setpoint change option for HVAC
- Night mode with reduced display brightness
- Orientation indicator: configuration of behaviour, color and brightness
- KNX programming mode can be activated from the back and from the front.
- Proximity function: can be triggered by the sensor or by object, range of proximity ≤12 cm KNX software functions:

Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4-bit or 1-byte telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene, RGB lighting, color temperature control, locking function, logic function (AND, OR, XOR, threshold converter, format converter).

There are 2 programming options for the KNX software functions:

- Express settings: Calls up a pre-set configuration of the functions
   Extended settings: Individual configuration of the functions

The bus is connected using a bus connecting terminal, power supply via the KNX bus.

To be completed with: Rocker 1-gang for KNX Push Button Dynamic Labeling MTN6191-6035, MTN6191-6034, MTN6191-6036, MTN6191-6050, MTN6191-6052

Accessories: Dismantling protection MTN6270-0000 Note: Programmable with ETS5, ETS6, and eConfigure KNX.

Contents: Push button, bus connecting terminal and supporting plate.

# **Push-Buttons**



#### KNX Push Button Dynamic Labeling, 2-gang



· ·		
Version	Art. no.	
2-gang	MTN6192-6010	New

The KNX Push Button Dynamic Labeling 2-gang is a push button for 4 rockers on which different functions can be set. The functions are configured in the ETS or eConfigure KNX and then shown accordingly on the display. This type of labeling makes it very easy to change a symbol and text.

#### ETS device functions:

- Display: Icons can be selected to match the function and their color and brightness can be configured. Individual text can be placed. Cleaning mode can be configured.
- Temperature measurement by internal sensor and setpoint change option for HVAC
- Night mode with reduced display brightness
- Orientation indicator: configuration of behaviour, color and brightness
- KNX programming mode can be activated from the back and from the front.
- Proximity function: can be triggered by the sensor or by object, range of proximity ≤12 cm KNX software functions:

Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4-bit or 1-byte telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene, RGB lighting, color temperature control, locking function, logic function (AND, OR, XOR, threshold converter, format converter).

There are 2 programming options for the KNX software functions:

- Express settings: Calls up a pre-set configuration of the functions
- Extended settings: Individual configuration of the functions

The bus is connected using a bus connecting terminal, power supply via the KNX bus.

To be completed with: Rocker 2-gang for KNX Push Button Dynamic Labeling MTN6192-6035, MTN6192-6034, MTN6192-6036, MTN6192-6050, MTN6192-6052

Accessories: Dismantling protection MTN6270-0000

Note: Programmable with ETS5, ETS6, and eConfigure KNX. Contents: Push button, bus connecting terminal and supporting plate.

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#### KNX Push Button Dynamic Labeling, 3-gang



6		
Version	Art. no.	
3-gang	MTN6193-6010	New

For System D.

The KNX Push Button Dynamic Labeling 3-gang is a push button for 6 rockers on which different functions can be set. The functions are configured in the ETS or eConfigure KNX and then shown accordingly on the display. This type of labeling makes it very easy to change a symbol and text.

#### ETS device functions:

- Display: Icons can be selected to match the function and their color and brightness can be configured. Individual text can be placed. Cleaning mode can be configured.
- Temperature measurement by internal sensor and setpoint change option for HVAC
- Night mode with reduced display brightness
- Orientation indicator: configuration of behaviour, color and brightness
- KNX programming mode can be activated from the back and from the front.
- Proximity function: can be triggered by the sensor or by object, range of proximity ≤12 cm KNX software functions:

Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4-bit or 1-byte telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene, RGB lighting, color temperature control, locking function, logic function (AND, OR, XOR, threshold converter, format converter).

There are 2 programming options for the KNX software functions:

- Express settings: Calls up a pre-set configuration of the functions
- Extended settings: Individual configuration of the functions

The bus is connected using a bus connecting terminal, power supply via the KNX bus.

To be completed with: Rocker 3-gang for KNX Push Button Dynamic Labeling MTN6193-6035, MTN6193-6034, MTN6193-6036, MTN6193-6050, MTN6193-6052

Accessories: Dismantling protection MTN6270-0000

Note: Programmable with ETS5, ETS6, and eConfigure KNX.

Contents: Push button, bus connecting terminal and supporting plate.

# Push-Buttons



#### KNX Push Button Dynamic Labeling, universal



universal	MTN6194-6010	New
Version	Art. no.	

or System D

The KNX Push Button Dynamic Labeling Universal is a push button for 2 to max 8 rockers on which different functions can be set. This flexible structure allows the number of rockers/functions to be adapted to changing requirements.

The functions are configured in the ETS or eConfigure KNX and then shown accordingly on the display. This type of labeling makes it very easy to change a symbol and text. **ETS device functions:** 

- Display: Icons can be selected to match the function and their color and brightness can be configured. Individual text can be placed. Cleaning mode can be configured.
- Temperature measurement by internal sensor and setpoint change option for HVAC
- Night mode with reduced display brightness
- Orientation indicator: configuration of behaviour, color and brightness
- KNX programming mode can be activated from the back and from the front.
- Proximity function: can be triggered by the sensor or by object, range of proximity ≤12 cm

#### KNX software functions:

Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4-bit or 1-byte telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene, RGB lighting, color temperature control, locking function, logic function (AND, OR, XOR, threshold converter, format converter).

There are 2 programming options for the KNX software functions:

- Express settings: Calls up a pre-set configuration of the functions
- Extended settings: Individual configuration of the functions

The bus is connected using a bus connecting terminal, power supply via the KNX bus.

**To be completed with:** Rocker 1-gang for KNX Push Button Dynamic Labeling MTN6191-6035, MTN6191-6034, MTN6191-6036, MTN6191-6050, MTN6191-6052 Rocker 2-gang for KNX Push Button Dynamic Labeling MTN6192-6035, MTN6192-6034,

MTN6192-6036, MTN6192-6050, MTN6192-6052 Rocker 3-gang for KNX Push Button Dynamic Labeling MTN6193-6035, MTN6193-6034, MTN6193-6036, MTN6193-6050, MTN6193-6052

MTN6193-0036, MTN6193-0030, MTN6193-0032

Rocker 4-gang for KNX Push Button Dynamic Labeling MTN6194-6035, MTN6194-6034, MTN6194-6050, MTN6194-6050

Accessories: Dismantling protection MTN6270-0000

Note: Programmable with ETS5, ETS6, and eConfigure KNX.

Contents: Push button, bus connecting terminal and supporting plate.

#### Rocker 1-gang for KNX Push Button Dynamic Labeling



For System D.

The rockers are placed on the Push Button Dynamic Labeling. The rockers can be put on and removed again without tools.

**To be completed with:** KNX Push Button Dynamic Labeling, 1-gang MTN6191-6010, KNX Push Button Dynamic Labeling, universal MTN6194-6010

Contents: 1x rocker 1-gang.

# **Push-Buttons**

#### Rocker 2-gang for KNX Push Button Dynamic Labeling



Version		Art. no.	
	lotus white	MTN6192-6035	New
	anthracite	MTN6192-6034	New
	stainless steel	MTN6192-6036	New
	nickel metallic	MTN6192-6050	New
	mocca metallic	MTN6192-6052	New

#### For System D.

The rockers are placed on the Push Button Dynamic Labeling. The rockers can be put on and removed again without tools.

To be completed with: KNX Push Button Dynamic Labeling, 2-gang MTN6192-6010, KNX Push Button Dynamic Labeling, universal MTN6194-6010

#### Rocker 3-gang for KNX Push Button Dynamic Labeling



Contents: 2x rockers 2-gang.

Version	Art. no.	
☐ lotus white	MTN6193-6035	New
anthracite	MTN6193-6034	New
stainless steel	MTN6193-6036	New
nickel metallic	MTN6193-6050	New
mocca metallic	MTN6193-6052	New

#### For System D

The rockers are placed on the Push Button Dynamic Labeling. The rockers can be put on and removed again without tools.

To be completed with: KNX Push Button Dynamic Labeling, 3-gang MTN6193-6010, KNX Push Button Dynamic Labeling, universal MTN6194-6010

Contents: 1x rocker 2-gang, 2x rockers 4-gang

#### Rocker 4-gang for KNX Push Button Dynamic Labeling



Version		Art. no.	
	lotus white	MTN6194-6035	New
	anthracite	MTN6194-6034	New
	stainless steel	MTN6194-6036	New
	nickel metallic	MTN6194-6050	New
	mocca metallic	MTN6194-6052	New

#### For System D

The rockers are placed on the Push Button Dynamic Labeling. The rockers can be put on and removed again without tools.

To be completed with: KNX Push Button Dynamic Labeling, universal MTN6194-6010 Contents: 4x rockers 4-gang.

# Push-Buttons



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#### For System D.

Push-button with 1 to 4 operating buttons and integrated temperature sensor for room temperature measurement.

The push button allows two different operation methods: either the normal manual operation via key stroke or the touchless operation triggered by proximity. The touchless operation allows to trigger 1 function, such as toggling or calling up a scene. Both operation methods cannot be performed simultaneously on the same push-button.

cannot be performed simultaneously on the same push-button.
In idle state, the surface of the push-button appears as a uniform plane. The labelling of the push-buttons only becomes visible via the backlit symbols after activation. For this purpose, the included prefabricated foils or the individual symbols with various icons.

The position of the operating buttons varies depending on the selected number of operating buttons

With status indicators.

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

#### ETS device functions:

- Behaviour and brightness of the status indicators
- Night mode: LEDs light up with reduced brightness
- The LEDs are only activated and the functions only become visible when approached.
- Temperature sensor

#### KNX software functions:

With touchless function: toggle, switch on, switch off, call up scene

With normal manual operation there are 2 programming options:

- Express settings: Calls up a pre-set configuration
- Extended settings: Individual configuration

Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4-bit or 1-byte 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, locking function.

Proximity function: triggered by object or sensor, sensitivity adjustment

Temperature sensor: offset setting, sending of the actual temperature in case of a deviation, cyclic sending of the actual temperature

Accessories: Dismantling protection MTN6270-0000

Foil set for KNX Push-button Pro MTN6270-0011

Fixing frame for 3-module box MTN6270-0015

D-Life frame, 1-gang, for 3-module box MTN6010-65xx

#### Note: Programmable only with ETS5.

Contents: Device with inserted prefabricated foil.

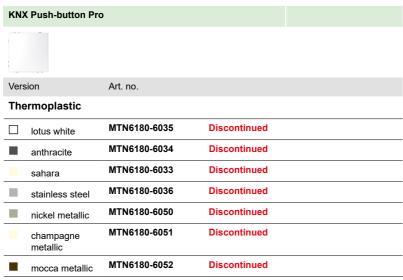
With bus connecting terminal and supporting plate.

3 prefabricated foils and 24 different individual symbols with 1 carrier foil.

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# **Push-Buttons**





For System D.

Push-button with 1 to 4 operating buttons and status displays. In idle state, the surface of the push-button appears as a uniform plane. The inscription of the keys only becomes visible via the backlit symbols following activation. For this, you can use the enclosed prefabricated foils or the individual symbols with various motifs.

The position of the operating buttons varies depending on the selected number of operating buttons

#### ETS device functions:

- Behaviour and brightness of the status displays
   Night mode: LEDs light up with reduced brightness
- Proximity function: The LEDs are only activated and the functions only become visible when approached.

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

#### KNX software functions:

2 programming options:

- Express setting: Calls up a pre-set configuration
- Advanced setting: Individual configuration

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: Dismantling protection MTN6270-0000 Foil set for KNX Push-button Pro MTN6270-0011 Fixing frame for 3-module box MTN6270-0015

D-Life frame, 1-gang, for 3-module box MTN6010-65xx

Note: Programmable with ETS4 and higher. Contents: Device with inserted prefabricated foil.

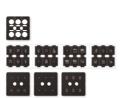
With bus connecting terminal and supporting plate.

3 prefabricated foils and 24 different individual symbols with 1 carrier foil.

# **Push-Buttons**







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#### For the Danish market.

For System D.

Push-button with 1 to 4 operating buttons and status displays. In idle state, the surface of the push-button appears as a uniform plane. The inscription of the keys only becomes visible via the backlit symbols following activation. For this, you can use the enclosed prefabricated foils or the individual symbols with various motifs.

The position of the operating buttons varies depending on the selected number of operating

#### ETS device functions:

- Behaviour and brightness of the status displays
- Night mode: LEDs light up with reduced brightness
- Proximity function: The LEDs are only activated and the functions only become visible when approached.

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

With fixing frame for DK-Fuga wall box. KNX software functions:

2 programming options:

- Express setting: Calls up a pre-set configuration
- Advanced setting: Individual configuration

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: Dismantling protection MTN6270-0000

Foil set for KNX Push-button Pro MTN6270-0011

Note: Programmable with ETS4 and higher. Contents: With fixing frame for DK-Fuga wall box.

With bus connecting terminal.

Device with inserted prefabricated foil.

3 prefabricated foils and 24 different individual symbols with 1 carrier foil.

#### Foil set for KNX Push-button Pro



Version Art. no.

# MTN6270-0011

Spare part

For System D.

For individual marking of the KNX Push-buttons Pro/Pro T.

In KNX, to be completed with: KNX Push-button Pro T System D MTN6185-60...,

KNX Push-button Pro System D MTN6180-60..,

System D MTN6181-6035

Contents: 3 prefabricated foils and 24 different individual symbols with 1 carrier foil.



#### Dismantling protection



Version

Art. no.

#### MTN6270-0000

Prevents the KNX Push-buttons Pro/Pro T, KNX Multi-Touch Pro, and 4" Touch Unit from being removed easily

In KNX, to be completed with:

KNX Push-button ProT

System M MTN6185-03/04.

System Design MTN6185-60.

KNX Push-button Pro

System M MTN6180-03/04. System D MTN6180-60..

System D MTN6181-6035

KNX Multitouch Pro System M MTN6215-03...

System D MTN6215-59.. System D MTN6216-5910

SpaceLogic KNX 4" Touch Unit MTN6215-0410

Contents: 2 stainless steel hooks.

# SpaceLogic KNX



# **Push-Buttons**

#### **KNX Multitouch Pro**



Version

#### Art. no. MTN6215-5910

#### For System D.

Comfortable room controller for controlling up to 32 room functions and the room temperature. All functions are displayed on a touch screen and are called up using simple finger movements. The user chooses from 3 interface designs that can be freely assigned to the room

functions. The room temperature control can be shown in 2 different designs. With room temperature control unit, display and connection for the remote 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.

#### ETS device functions:

- Switch-on behaviour of the user interface
- Proximity function: The display and the start screen only become visible when approached
- Gesture function: The device recognises a gesture (horizontal or vertical swipe movement) and triggers a function. In this way, the light can be switched on when you enter the room, for example.
- Cleaning mode: For a specific period of time, neither touches nor gestures are detected
- Adjusting the background lighting
- Setting the screen saver

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

#### KNX software functions:

#### Control unit/push-button:

Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams, pulse edges with 2-byte telegrams, 8-bit linear regulator, scene retrieval, scene saving, signal function, fan control, operating modes, setpoint adjust-

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

Controller type: 2-step controller, continuous-action 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
- 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 (ECO), night reduction, frost/heat

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. Signal function for the actual temperature, valve protection function

Scene function.

Operation: Touch display

Accessories: Dismantling protection MTN6270-0000

Remote sensor for universal room temperature control unit

with touch display MTN5775-0003

Fixing frame for 3-module box MTN6270-0015 D-Life frame, 1-gang, for 3-module box MTN6010-65xx

Note: Programmable with ETS4 and higher.

Contents: With bus connecting terminal and supporting plate.



#### **KNX Multitouch Pro**



Version

#### MTN6216-5910

Art. no.

#### For the Danish market.

For System D.

Comfortable room controller for controlling up to 32 room functions and the room temperature. All functions are displayed on a touch screen and are called up using simple finger movements. The user chooses from 3 interface designs that can be freely assigned to the room functions. The room temperature control can be shown in 2 different designs.

With room temperature control unit, display and connection for the remote 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.

#### ETS device functions:

- Switch-on behaviour of the user interface
- Proximity function: The display and the start screen only become visible when approached
- Gesture function: The device recognises a gesture (horizontal or vertical swipe movement) and triggers a function. In this way, the light can be switched on when you enter the room, for example.
- Cleaning mode: For a specific period of time, neither touches nor gestures are detected
- Adjusting the background lighting
- Setting the screen saver

With integrated bus coupler. The bus is connected using a bus connecting terminal. With fixing frame for DK-Fuga wall box.

#### KNX software functions:

#### Control unit/push-button:

Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams, pulse edges with 2-byte telegrams, 8-bit linear regulator, scene retrieval, scene saving, signal function, fan control, operating modes, setpoint adjust-

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

Controller type: 2-step controller, continuous-action 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
- 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 (ECO), night reduction, frost/heat

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. Signal function for the actual temperature, valve protection function

Scene function.

Operation: Touch display

Accessories: Dismantling protection MTN6270-0000

Remote sensor for universal room temperature control unit with touch display

Note: Programmable with ETS4 and higher.

Contents: With fixing frame for DK-Fuga wall box.

With bus connecting terminal.

#### Remote sensor for universal room temperature control unit with touch display



Art. no.

#### MTN5775-0003

For use with underfloor heating systems.

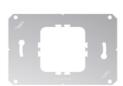
To be completed with: Universal temperature control unit insert with touch display MTN5775-0000

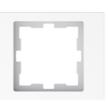
Programmable universal temperature control unit insert with touch display MTN5776-0000 KNX Multitouch Pro System M MTN6215-03...

System D MTN6215-59.

System D MTN6216-5910

# **Push-Buttons**





# Fixing frame for 3-module box Art. no. Version MTN6270-0015

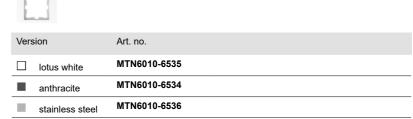
Fixing frame for 3-module installation boxes.

Plug the KNX devices together with the D-Life frame, 1-gang, for 3-module box on the fixing

Suitable for installation on 3-module boxes.

To be completed with: D-Life frame, 1-gang, for 3-module box System D MTN6010-65xx

# D-Life frame, 1-gang, for 3-module box



Plug the KNX System D devices together with the D-Life frame on the fixing frame for 3-mod-

For horizontal and vertical installation.

To be completed with: Fixing frame for 3-module box MTN6270-0015



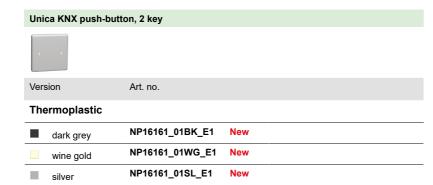
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# **Push-Buttons**

#### **Push-buttons UNiCA**

# UNICA





Push-button with 2 operating buttons and status indicators. In idle state, the surface of the push-button appears as a uniform plane. The inscription of the keys only becomes visible via the backlit symbols following activation. For this, you can use the enclosed prefabricated foils or the individual symbols with various motifs. Cool white and warm white LEDs show status, the brightness can be defined according to normal and night mode.

#### ETS device functions:

- Behavior and brightness of the status indicators
- Night mode: LEDs light up with reduced brightness
- Proximity function: The LEDs are only activated and the functions only become visible when approached.

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

#### KNX software functions:

2 programming options:

- Express settings: Calls up a pre-set configuration
- Extended settings: Individual configuration

Express settings: Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), scenes.

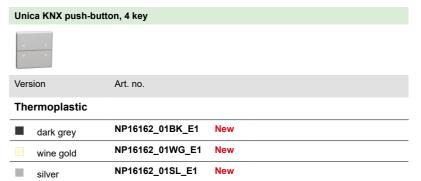
Extended settings: Switching, dimming, value output, scene control (recal/store a scene), blind, shift register (stepwise, without steps), RGB lighting (RGB, RGBW), multiple operation in which you can define various functions manually (4 objects - on/off, up/down, recall scene, store scene, percentatge, unsigned value), delay mode, color temperature control. For all function a distinction can be made between short and long operation.

General: Scene group, logic function (AND; OR, XOR, threshold comparator, format converter), indication behaviors, locking function

#### Note: Programmable with ETS5 and higher.

Contents: Device with inserted prefabricated foil. Additional foil with various symbols. Mounting screws

# **Push-Buttons**



Push-button with 4 operating buttons and status indicators. In idle state, the surface of the push-button appears as a uniform plane. The inscription of the keys only becomes visible via the backlit symbols following activation. For this, you can use the enclosed prefabricated foils or the individual symbols with various motifs. Cool white and warm white LEDs show status, the brightness can be defined according to normal and night mode.

#### ETS device functions:

- Behavior and brightness of the status indicators
- Night mode: LEDs light up with reduced brightness
- Proximity function: The LEDs are only activated and the functions only become visible when approached.

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

#### KNX software functions:

2 programming options:

- Express settings: Calls up a pre-set configuration
- Extended settings: Individual configuration

Express settings: Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), scenes.

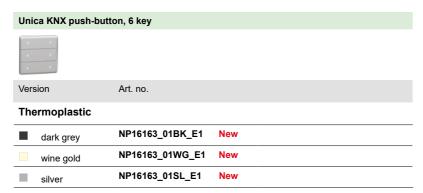
Extended settings: Switching, dimming, value output, scene control (recal/store a scene), blind, shift register (stepwise, without steps), RGB lighting (RGB, RGBW), multiple operation in which you can define various functions manually (4 objects - on/off, up/down, recall scene, store scene, percentatge, unsigned value), delay mode, color temperature control. For all function a distinction can be made between short and long operation.

General: Scene group, logic function (AND; OR, XOR, threshold comparator, format converter), indication behaviors, locking function

#### Note: Programmable with ETS5 and higher.

# **Push-Buttons**





Push-button with 6 operating buttons and status indicators. In idle state, the surface of the push-button appears as a uniform plane. The inscription of the keys only becomes visible via the backlit symbols following activation. For this, you can use the enclosed prefabricated foils or the individual symbols with various motifs. Cool white and warm white LEDs show status, the brightness can be defined according to normal and night mode.

#### ETS device functions:

- Behavior and brightness of the status indicators
- Night mode: LEDs light up with reduced brightness
- Proximity function: The LEDs are only activated and the functions only become visible when approached.

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

#### KNX software functions:

2 programming options:

- Express settings: Calls up a pre-set configuration
- Extended settings: Individual configuration

Express settings: Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), scenes.

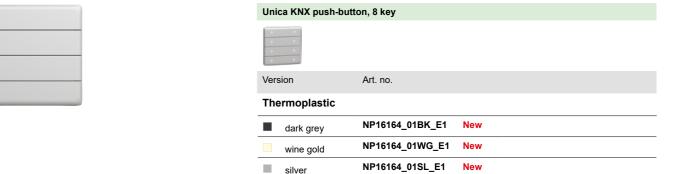
Extended settings: Switching, dimming, value output, scene control (recal/store a scene), blind, shift register (stepwise, without steps), RGB lighting (RGB, RGBW), multiple operation in which you can define various functions manually (4 objects - on/off, up/down, recall scene, store scene, percentatge, unsigned value), delay mode, color temperature control. For all function a distinction can be made between short and long operation.

General: Scene group, logic function (AND; OR, XOR, threshold comparator, format converter), indication behaviors, locking function

#### Note: Programmable with ETS5 and higher.

Contents: Device with inserted prefabricated foil. Additional foil with various symbols. Mounting screws.

# **Push-Buttons**



Push-button with 8 operating buttons and status indicators. In idle state, the surface of the push-button appears as a uniform plane. The inscription of the keys only becomes visible via the backlit symbols following activation. For this, you can use the enclosed prefabricated foils or the individual symbols with various motifs. Cool white and warm white LEDs show status, the brightness can be defined according to normal and night mode.

#### ETS device functions:

- Behavior and brightness of the status indicators
- Night mode: LEDs light up with reduced brightness
- Proximity function: The LEDs are only activated and the functions only become visible when approached.

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

#### KNX software functions:

2 programming options:

- Express settings: Calls up a pre-set configuration
- Extended settings: Individual configuration

Express settings: Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), scenes.

Extended settings: Switching, dimming, value output, scene control (recal/store a scene), blind, shift register (stepwise, without steps), RGB lighting (RGB, RGBW), multiple operation in which you can define various functions manually (4 objects - on/off, up/down, recall scene, store scene, percentatge, unsigned value), delay mode, color temperature control. For all function a distinction can be made between short and long operation.

General: Scene group, logic function (AND; OR, XOR, threshold comparator, format converter), indication behaviors, locking function

#### Note: Programmable with ETS5 and higher.



#### Unica KNX push-button, 5 key plus thermomstat



_			
Version		Art. no.	
Thermoplastic			
	dark grey	NP16212_01BK_E1	New
	wine gold	NP16212_01WG_E1	New
	silver	NP16212_01SL_E1	New

Push-button with thermostat, display and 5 operating buttons with status indicators. With an integrated temperature sensor for temperature measurement. The thermostats supports Fan Coil Units (FCU), Variable Refrigerant Flow systems (VRF), floor heating systems and ventilation

The display shows all relevant information for room temperature control e.g. the actual temperature, heating/cooling status, ventilation, ...

The inscription of the keys only becomes visible via the backlit symbols following activation. For this, you can use the enclosed prefabricated foils or the individual symbols with various motifs. Cool white and warm white LEDs show status, the brightness can be defined according to normal and night mode.

#### ETS device functions:

- Display settings: temperature unit, brightness level, standby adjustment
- Behavior and brightness of the status indicators
- Night mode: LEDs light up with reduced brightness
- Proximity function: The LEDs are only activated and the functions only become visible when approached.
- Temperature sensor: Calibration and sending behavior

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

#### KNX software functions:

2 programming options:

- Express settings: Calls up a pre-set configuration
- Extended settings: Individual configuration

Express settings: Power on/off of the device, control mode/operation mode (to call with short/ long button press), Fan speed, Temperature +/-, Function page, Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), scenes.

Extended settings: Switching, dimming, value output, scene control (recal/store a scene), blind, shift register (stepwise, without steps), RGB lighting (RGB, RGBW), multiple operation in which you can define various functions manually (4 objects - on/off, up/down, recall scene, store scene, percentatge, unsigned value), delay mode, color temperature control. For all function a distinction can be made between short and long operation.

HVAC settings: FCU or VRF controller, floor heating and ventilation.

FCU: Heating and/or cooling mode, room temperature can be taken as reference from the internal sensor, an external sensor or a combination of both. Implementation of a window contact. Setpoint adjustment.

VRF: Heating and/or cooling mode, dehumidifaication mode, fan mode, auto mode, fan speed adjustment, setpoint.

Floor heating: Setpoint, PI control, PWM or switching 2-point feedback control, setpoint adjustment

General: Scene group, logic function (AND; OR, XOR, threshold comparator, format converter), indication behaviors, locking function, support of CO2 sensor, monitoring of further sensors.

#### Note: Programmable with ETS5 and higher.

Contents: Device with inserted prefabricated foil. Additional foil with various symbols. Mounting screws.

### **Push-Buttons**



# Unica KNX push-button, 8 key plus thermomstat Version Art. no. Thermoplastic dark grey NP16214\_01BK\_E1 New wine gold NP16214\_01WG\_E1 New silver NP16214\_01SL\_E1 New

Push-button with thermostat, display and 8 operating buttons with status indicators. With an integrated temperature sensor for temperature measurement. The thermostats supports Fan Coil Units (FCU), Variable Refrigerant Flow systems (VRF), floor heating systems and ventilation.

The display shows all relevant information for room temperature control e.g. the actual temperature, heating/cooling status, ventilation, ...

The inscription of the keys only becomes visible via the backlit symbols following activation. For this, you can use the enclosed prefabricated foils or the individual symbols with various motifs. Cool white and warm white LEDs show status, the brightness can be defined according to normal and night mode.

#### ETS device functions:

- Display settings: temperature unit, brightness level, standby adjustment
- Behavior and brightness of the status indicators
- Night mode: LEDs light up with reduced brightness
- Proximity function: The LEDs are only activated and the functions only become visible when approached.
- Temperature sensor: Calibration and sending behavior
  With integrated bus coupler. The bus is connected using a bus connecting terminal.

#### KNX software functions:

2 programming options:

- Express settings: Calls up a pre-set configuration
- Extended settings: Individual configuration

Express settings: Power on/off of the device, control mode/operation mode (to call with short/ long button press), Fan speed, Temperature +/-, Function page, Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), scenes.

Extended settings: Switching, dimming, value output, scene control (recal/store a scene), blind, shift register (stepwise, without steps), RGB lighting (RGB, RGBW), multiple operation in which you can define various functions manually (4 objects - on/off, up/down, recall scene, store scene, percentatge, unsigned value), delay mode, color temperature control. For all function a distinction can be made between short and long operation.

HVAC settings: FCU or VRF controller, floor heating and ventilation.

FCU: Heating and/or cooling mode, room temperature can be taken as reference from the internal sensor, an external sensor or a combination of both. Implementation of a window contact. Setpoint adjustment.

VRF: Heating and/or cooling mode, dehumidifaication mode, fan mode, auto mode, fan speed adjustment, setpoint.

Floor heating: Setpoint, PI control, PWM or switching 2-point feedback control, setpoint adjustment

General: Scene group, logic function (AND; OR, XOR, threshold comparator, format converter), indication behaviors, locking function, support of CO2 sensor, monitoring of further sensors

#### Note: Programmable with ETS5 and higher.

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# **Push-Buttons**



#### Unica KNX 4.0 inch touch screen







Version Art. no.

glass NP16260 0104 New

Comfortable room controller with 4 inch touch panel to control up to 54 functions and the room temperature.

All functions are displayed on up to 9 touch screens and called up with simple finger movements. The touch screen is customizable, e.g. the user can choose between 3 theme styles, different screen savers, 43 predefined icons and 35 individual icons.

The proximity can be triggered by an object (presence detector) and can also be sent, e.g. to trigger another action or for visualization.

An FCU controller, a floor heating controller and a ventilation controller are available as HVAC controllers.

#### ETS device functions:

- On/Off behavior of the user interface
- Proximity function triggered by object
- Setting the backlight in normal/night mode
- Setting the appearance of the screen

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

#### Functions, control unit/push-button:

- Dual-surface: switch, brightness dimming, curtain step/move, roller blind step/move, scene, value output, loop operation, multiple operation, weather information, energy monitoring
- Single-surface: switch, scene, value output, loop operation, multiple operation, weather information, energy monitoring, air quality display
- With only one function of the screen: brightness dimming, RGB dimming (1 x 3 byte, 3 x 1 byte), RGBW dimming (1 x 6 byte, 4 x 1 byte), Colour temperature dimming, venetian blind position and slat, air conditioner control panel (setpoint/actual temperature, internal/external sensor), room temperatur control panel, ventialtion control panel, audio control (volume adjustment, play mode, 3 play modes)

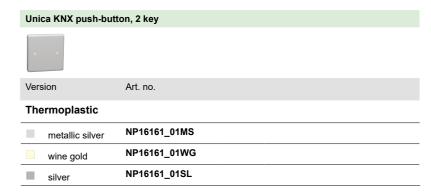
#### Functions of the room temperature control unit:

- FCU controller: switching on/off (2-point control), switching PWM (PI control), continuous control (PI control)
- Floor heating controller
- Ventilation controller

General: Scene group function, 8 logic function channels (AND; OR, XOR, threshold comparator, format converter) each with 8 inputs, indication behaviors

Note: Programmable with ETS5 and higher.

# **Push-Buttons**



#### For the Chinese market.

Push-button with 2 operating buttons and status indicators. In idle state, the surface of the push-button appears as a uniform plane. The inscription of the keys only becomes visible via the backlit symbols following activation. For this, you can use the enclosed prefabricated foils or the individual symbols with various motifs. Cool white and warm white LEDs show status, the brightness can be defined according to normal and night mode.

#### ETS device functions:

- Behavior and brightness of the status indicators
- Night mode: LEDs light up with reduced brightness
- Proximity function: The LEDs are only activated and the functions only become visible when approached.

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

#### KNX software functions:

2 programming options:

- Express settings: Calls up a pre-set configuration
- Extended settings: Individual configuration

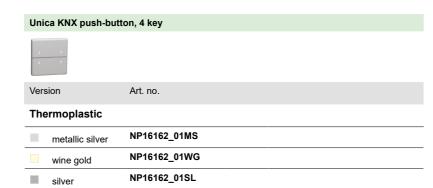
Express settings: Switching, toggling, dimming (single/dual-surface), blind (single/dual-

surface), scenes. Extended settings: Switching, dimming, value output, scene control (recal/store a scene), blind, shift register (stepwise, without steps), RGB lighting (RGB, RGBW), multiple operation in which you can define various functions manually (4 objects - on/off, up/down, recall scene, store scene, percentatge, unsigned value), delay mode, color temperature control. For all

function a distinction can be made between short and long operation.

General: Scene group, logic function (AND; OR, XOR, threshold comparator, format converter), indication behaviors, locking function

#### Note: Programmable with ETS5 and higher.



#### For the Chinese market.

Push-button with 4 operating buttons and status indicators. In idle state, the surface of the push-button appears as a uniform plane. The inscription of the keys only becomes visible via the backlit symbols following activation. For this, you can use the enclosed prefabricated foils or the individual symbols with various motifs. Cool white and warm white LEDs show status, the brightness can be defined according to normal and night mode.

#### ETS device functions:

- Behavior and brightness of the status indicators
- Night mode: LEDs light up with reduced brightness
- Proximity function: The LEDs are only activated and the functions only become visible when approached.

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

#### KNX software functions:

2 programming options:

- Express settings: Calls up a pre-set configuration
- Extended settings: Individual configuration

Express settings: Switching, toggling, dimming (single/dual-surface), blind (single/dual-

Extended settings: Switching, dimming, value output, scene control (recal/store a scene), blind, shift register (stepwise, without steps), RGB lighting (RGB, RGBW), multiple operation in which you can define various functions manually (4 objects - on/off, up/down, recall scene, store scene, percentatge, unsigned value), delay mode, color temperature control. For all function a distinction can be made between short and long operation.

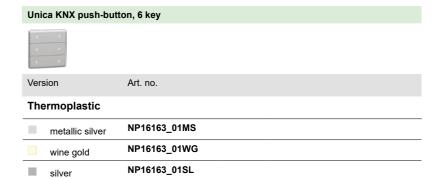
General: Scene group, logic function (AND; OR, XOR, threshold comparator, format converter), indication behaviors, locking function

#### Note: Programmable with ETS5 and higher.

Contents: Device with inserted prefabricated foil. Additional foil with various symbols. Mount-

# SpaceLogic KNX

# **Push-Buttons**



#### For the Chinese market.

Push-button with 6 operating buttons and status indicators. In idle state, the surface of the push-button appears as a uniform plane. The inscription of the keys only becomes visible via the backlit symbols following activation. For this, you can use the enclosed prefabricated foils or the individual symbols with various motifs. Cool white and warm white LEDs show status, the brightness can be defined according to normal and night mode.

#### ETS device functions:

- Behavior and brightness of the status indicators
- Night mode: LEDs light up with reduced brightness
- Proximity function: The LEDs are only activated and the functions only become visible when approached.

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

#### KNX software functions:

2 programming options:

- Express settings: Calls up a pre-set configuration
- Extended settings: Individual configuration

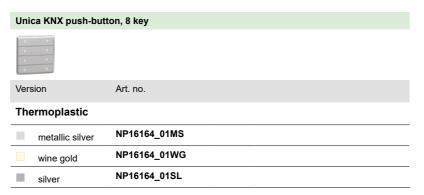
Express settings: Switching, toggling, dimming (single/dual-surface), blind (single/dualsurface), scenes.

Extended settings: Switching, dimming, value output, scene control (recal/store a scene), blind, shift register (stepwise, without steps), RGB lighting (RGB, RGBW), multiple operation in which you can define various functions manually (4 objects - on/off, up/down, recall scene, store scene, percentatge, unsigned value), delay mode, color temperature control. For all function a distinction can be made between short and long operation.

General: Scene group, logic function (AND; OR, XOR, threshold comparator, format converter), indication behaviors, locking function

#### Note: Programmable with ETS5 and higher.





#### For the Chinese market.

Push-button with 8 operating buttons and status indicators. In idle state, the surface of the push-button appears as a uniform plane. The inscription of the keys only becomes visible via the backlit symbols following activation. For this, you can use the enclosed prefabricated foils or the individual symbols with various motifs. Cool white and warm white LEDs show status, the brightness can be defined according to normal and night mode.

#### ETS device functions:

- Behavior and brightness of the status indicators
- Night mode: LEDs light up with reduced brightness
- Proximity function: The LEDs are only activated and the functions only become visible when approached.

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

#### KNX software functions:

2 programming options:

- Express settings: Calls up a pre-set configuration
- Extended settings: Individual configuration

Express settings: Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), scenes.

Extended settings: Switching, dimming, value output, scene control (recal/store a scene), blind, shift register (stepwise, without steps), RGB lighting (RGB, RGBW), multiple operation in which you can define various functions manually (4 objects - on/off, up/down, recall scene, store scene, percentatge, unsigned value), delay mode, color temperature control. For all function a distinction can be made between short and long operation.

General: Scene group, logic function (AND; OR, XOR, threshold comparator, format converter), indication behaviors, locking function

#### Note: Programmable with ETS5 and higher.

**Contents:** Device with inserted prefabricated foil. Additional foil with various symbols. Mounting screws.

# **Push-Buttons**



#### Unica KNX push-button, 5 key plus thermomstat



VEISIOII		AIT. IIO.		
Thermoplastic				
me	tallic silver	NP16212_01MS		
wir	ne gold	NP16212_01WG		
silv	/er	NP16212_01SL		

#### For the Chinese market.

Push-button with thermostat, display and 5 operating buttons with status indicators. With an integrated temperature sensor for temperature measurement. The thermostats supports Fan Coil Units (FCU), Variable Refrigerant Flow systems (VRF), floor heating systems and ventilation.

The display shows all relevant information for room temperature control e.g. the actual temperature, heating/cooling status, ventilation, ...

The inscription of the keys only becomes visible via the backlit symbols following activation. For this, you can use the enclosed prefabricated foils or the individual symbols with various motifs. Cool white and warm white LEDs show status, the brightness can be defined according to normal and night mode.

#### ETS device functions:

- Display settings: temperature unit, brightness level, standby adjustment
- Behavior and brightness of the status indicators
- Night mode: LEDs light up with reduced brightness
- Proximity function: The LEDs are only activated and the functions only become visible when approached.
- Temperature sensor: Calibration and sending behavior

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

#### KNX software functions:

#### 2 programming options:

- Express settings: Calls up a pre-set configuration
- Extended settings: Individual configuration

Express settings: Power on/off of the device, control mode/operation mode (to call with short/ long button press), Fan speed, Temperature +/-, Function page, Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), scenes.

Extended settings: Switching, dimming, value output, scene control (recal/store a scene), blind, shift register (stepwise, without steps), RGB lighting (RGB, RGBW), multiple operation in which you can define various functions manually (4 objects - on/off, up/down, recall scene, store scene, percentatge, unsigned value), delay mode, color temperature control. For all function a distinction can be made between short and long operation.

HVAC settings: FCU or VRF controller, floor heating and ventilation

FCU: Heating and/or cooling mode, room temperature can be taken as reference from the internal sensor, an external sensor or a combination of both. Implementation of a window contact. Setpoint adjustment.

VRF: Heating and/or cooling mode, dehumidifaication mode, fan mode, auto mode, fan speed adjustment, setpoint.

Floor heating: Setpoint, PI control, PWM or switching 2-point feedback control, setpoint adjustment

General: Scene group, logic function (AND; OR, XOR, threshold comparator, format converter), indication behaviors, locking function, support of CO2 sensor, monitoring of further sensors

#### Note: Programmable with ETS5 and higher.



# Unica KNX push-button, 8 key plus thermomstat Version Art. no. Thermoplastic NP16214\_01MS metallic silver NP16214\_01WG wine gold NP16214\_01SL

#### For the Chinese market.

silver

Push-button with thermostat, display and 8 operating buttons with status indicators. With an integrated temperature sensor for temperature measurement. The thermostats supports Fan Coil Units (FCU), Variable Refrigerant Flow systems (VRF), floor heating systems and

The display shows all relevant information for room temperature control e.g. the actual temperature, heating/cooling status, ventilation,

The inscription of the keys only becomes visible via the backlit symbols following activation. For this, you can use the enclosed prefabricated foils or the individual symbols with various motifs. Cool white and warm white LEDs show status, the brightness can be defined according to normal and night mode.

#### ETS device functions:

- Display settings: temperature unit, brightness level, standby adjustment
- Behavior and brightness of the status indicators
- Night mode: LEDs light up with reduced brightness
- Proximity function: The LEDs are only activated and the functions only become visible when approached.
- Temperature sensor: Calibration and sending behavior

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

#### KNX software functions:

2 programming options:

- Express settings: Calls up a pre-set configuration
- Extended settings: Individual configuration

Express settings: Power on/off of the device, control mode/operation mode (to call with short/ long button press), Fan speed, Temperature +/-, Function page, Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), scenes.

Extended settings: Switching, dimming, value output, scene control (recal/store a scene), blind, shift register (stepwise, without steps), RGB lighting (RGB, RGBW), multiple operation in which you can define various functions manually (4 objects - on/off, up/down, recall scene, store scene, percentatge, unsigned value), delay mode, color temperature control. For all function a distinction can be made between short and long operation.

HVAC settings: FCU or VRF controller, floor heating and ventilation

FCU: Heating and/or cooling mode, room temperature can be taken as reference from the internal sensor, an external sensor or a combination of both. Implementation of a window contact. Setpoint adjustment.

VRF: Heating and/or cooling mode, dehumidifaication mode, fan mode, auto mode, fan speed

Floor heating: Setpoint, PI control, PWM or switching 2-point feedback control, setpoint

General: Scene group, logic function (AND; OR, XOR, threshold comparator, format converter), indication behaviors, locking function, support of CO2 sensor, monitoring of further

#### Note: Programmable with ETS5 and higher.

Contents: Device with inserted prefabricated foil. Additional foil with various symbols. Mount-

# Push-Buttons

#### **Push-buttons Altira**



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KNX push-button	1-gang	KNX push-button 2	KNX push-button 2-gang	
Version Art. no.		Version	Art. no.	
white	ALB45150 Discontinued	white	ALB45151 Discontinued	
aluminium	ALB46150 Discontinued	aluminium	ALB46151 Discontinued	

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 func-

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.

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

scene retrieval, scene saving, disable func-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).

short and long operation), pulse edges with

2-byte telegrams (distinction between short

and long operation), 8-bit linear regulator,

With bus connecting terminal.

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



aluminium	ALB46152	Discontinued
white	ALB45152	Discontinued
Version	Art. no.	

2 modules

In Altira design.

KNX-push-button with 2 buttons, blue status LED and IR receiver. The status LED is located under the symbol window which can be taken off.

The functions of each of the button can be triggered using an IR remote control.

The push-button is pre-programmed for operation with a Schneider-Electric IR remote control Distance. Many other IR remote controls (e.g. existing TV or CD player remote controls) can be taught into the push-buttons.

With integrated bus coupler. The bus is connected using a bus connecting terminal. KNX software functions: Switching, toggling, dimming (single/dual-surface), blind (single/ dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.

Transmitter: IR universal remote control MTN5761-0000

Contents: With bus connecting terminal

# **Push-Buttons**

#### **Push-buttons Unica**





# KNX push-button single



Version	Art. no.
☐ white	NU553018
white, antibacterial	NU553020
aluminium	NU553030
anthracite	NU553054

#### 2 modules

In Unica design

KNX-push-button with 1 rocker (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 double



Call	-,-		
Vers	ion	Art. no.	
	white	NU553118	
	white, antibac- terial	NU553120	
	aluminium	NU553130	
	anthracite	NU553154	

#### 2 modules

In Unica design

KNX-push-button with 2 rockers (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

# **Push-Buttons**





# KNX push-button 1-gang

#### Art. no. Version Art. no. Version MGU3.530.18 MGU3.531.18 ☐ white ☐ white MGU3.530.25 MGU3.531.25 ivory ivory

#### 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, tog-

gling, 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 func-

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

### 2 modules

In Unica design.

KNX push-button 2-gang

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 func-

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.
VOI 01011	7 4 6. 110.
☐ white	MGU3.532.18
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 universal remote control MTN5761-0000

Contents: With bus connecting terminal

# **Push-Buttons**

#### **Push-buttons Unica Top**









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, tog-

gling, 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 func-

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.

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 func-

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 universal remote control MTN5761-0000

Contents: With bus connecting terminal



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# Binary Inputs Overview

# Binary Inputs Overview

	Push-button i	interface plus SpaceLogic KNX Binary input REG-K/x10			SpaceLogic KNX Binary input REG-K/x24			SpaceLogic KNX Binary input REG-K/x230	
	Č		Em 1 Company of the C						
Article number	MTN670802	MTN670804	MTN644492	MTN644592		MTN644892	MTN644792	MTN644992	MTN644692
Number of channels	2	4	4	8		4	8	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		2.5 modules	4 modules	2,5 modules	4 modules
Use cases	Connection of conventional push-buttons or floating contacts		Connection of conventional push-buttons or floating contacts			Connection of conventional devices with AC / DC 24 V outputs, for example, window contacts, wind sensors, glass break sensors		Connection of conventional devices with AC 230 V outputs	
Installation site	In the vicinity of	f push-buttons	Ca	binet		Ca	binet	Cat	inet
Connecting terminal	_	-	Plug-in scr	ew terminals		Plug-in scr	ew terminals	Plug-in scre	w terminals
Internally generated voltage		I					_	_	
Input voltage / Contact voltage	-/:	3.5 V	-/	10 V		AC/DC	24 V / —	AC 230 V / —	
Input current / Contact current	-/:	2 mA	— / 2 mA			AC 6 mA, DC 15 mA / —		AC 12 mA / —	
Thresholds	_		_			0 signal: ≤ 5 V 1 signal: ≥11 V		0 signal: ≤ 40 V 1 signal: ≥160 V	
Maximum line length	7.5	m	50 m			10	0 m	100	) m
Software									
Toggle		1							•
Switching									
Dimming (via one/two inputs)		1							•
Blind (via one/two inputs)									
Blind with position values		ı							
Edges (1 bit, 2 bit, 4 bit, 1 byte, 2 byte)		1						I	1
Edges (1 bit, 2 bit, 4 bit, 1 byte, 2 byte) short and long operation		1							1
8 bit slider		1							
Scenes									1
Pulse counter		1							1
Switch counter									
Reset counter		I	1						
Cyclical sending (1 bit, 2 bit, 1 byte)	ı							ı	
Locking function for each chanel	ı							I	
Locking function ■ Adjustable for each channel ■ All channels follow the function of a master channel	;							I	

# Binary Inputs

#### **Binary inputs**



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



VOI 01011	7 4 4. 110.
polar white	MTN670802

Generates an internal signal voltage for connecting two conventional push-buttons or floating contacts, and for direct 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 direct 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

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





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# SpaceLogic KNX Binary input REG-K/4x10

**Binary Inputs** 



light grey	MTN644492
Version	Art. no.
Non-Marie	

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

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

connecting terminal.

Cable length: max. 50 m Device width: 2.5 modules = approx. 45 mm

Contents: With bus connecting terminal and cable cover.

#### SpaceLogic KNX Binary input REG-K/8x10



"arretures	
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.

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



# . . . . . . . . .

#### SpaceLogic KNX 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.

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: SpaceLogic KNX Power supply REG, 24 V DC / 0.4 A MTN693003,

SpaceLogic KNX Power supply REG, AC 24 V/1 A MTN663529 Contents: With bus connecting terminal and cable cover.

#### SpaceLogic KNX 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

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: SpaceLogic KNX Power supply REG, 24 V DC / 0.4 A MTN693003,

SpaceLogic KNX Power supply REG, AC 24 V/1 A MTN663529 Contents: With bus connecting terminal and cable cover.

# **Binary Inputs**





LSB02779 / 11.2023

#### SpaceLogic KNX Binary input REG-K/4x230



Version Art. no. MTN644992 light grey

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.

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.

#### SpaceLogic KNX 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. 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

Line length: max. 100 m Device width: 4 modules = approx. 72 mm

Input current: AC approx. 7 mA

Contents: With bus connecting terminal and cable cover.

# Movement/Presence Detectors Overview

# Movement/Presence Detectors Overview

	KNX ARGUS Presence Basic	KNX ARGUS Presence	KNX ARGUS Presence with light control and IR receiver	KNX Presence detector DI	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
Article number	MTN6307	MTN6308	MTN6309	MTN6300-0019	MTN6304, MTN6306	MTN6317, MTN6327	MTN6316, MTN6326	MTN6325
Design	_	_	_	_	System M  MTN6302-60  System D	System M	System M	_
Use cases (examples)	Offices, waiting rooms	Large offices, waiting rooms, classrooms, private areas, public buildings	Large offices, waiting rooms, classrooms, private areas, public buildings	Offices, waiting rooms, corridors	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 device with a protection type higher IP20 are required (working rooms, wellness centres,)
	Lighting, heating control	Lighting, blinds, heating control	Lighting, blinds, heating control, constant light control	Lighting control	Lighting, blinds, heating control	Lighting, blinds, heating control	Lighting, blinds, heating control	Lighting
Installation site	Ceiling mounting, indoor	Ceiling mounting, indoor	Ceiling mounting, indoor	False ceiling mounting, indoor	Flush mounting, indoor	Flush mounting, indoor	Flush mounting, indoor	Surface mounting, outdoor, indoor
Protection type	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20	IP 55
Recomended mounting height	2.5 m	2.5 m	2.5 m	2.5 m	2.2 m oder 1.1 m (halved range)	2.2 m oder 1.1 m (halved range)	1.10 m	2.5 m
Angle of detection	360°	360°	360°	360°	180°	180°	180°	220°, adjustable lense
Range (right, left / front)	7 m radius	7 m radius	7 m radius	4.5 m radius	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
Number of levels	6	6	6	3	6	6	1	7
Number of zones	136	136	136	39	46	46	14	112
Number of switching segments	544	544	544	167	_	_	_	448
Number of movement sensors	4	4	4	2	2	2	1	1
Light sensor	10-2000 Lux	10-2000 Lux	10-2000 Lux	10-2000 Lux	10-2000 Lux	10-2000 Lux	10-2000 Lux	3-2000 Lux
Staircase timer adjustable on the device	_	_	_	_	1 s - 8 min	1 s - 8 min	1 s - 8 min	1 s - 8 min
Staircase timer adjustable in the ETS	1 s - 255 h	1 s - 255 h	1s - 255 h	3 s, 1 min - 255 min	1 s - 255 h	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)	2	5	5	5	5
Number of functions per block	4	4	4	1	4	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 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	_					_	_	_
Primary/Secondary function	_	_			<u> </u>			
Monitoring function (cyclical sending)	_	<u>-</u>	_		<u> </u>			
Dead time adjustable (noise reduction)	_	<u>-</u>	_	_	<u> </u>			
IR receiver up to 10 channels ■ IR functions with KNX telegrams ■ Configuration of brightness treshold, staircase timer and range	_ _ _					_ _ _ _	_ _ _ _	_ _ _ _

# Movement/Presence Detectors Overview

# Movement/Presence Detectors Overview

_							
	KNX Movement detector 180			KNX Movemen	nt detector 180	KNX Movement detector 180	
Article number	MGU3.533.18/25	MGU5.533.18/25		MGU3.533.30/12	MGU5.533.30/12	ALB45153, ALB46153	
Design	Un	nica		Unio	са Тор	Altira	
Use cases (examples)	Corridors, private areas, put	blic areas with limited access		Corridors, private areas, pu	blic areas with limited access	Corridors, private areas, public areas with limited access	
	Lighting, blinds	, heating control		Lighting, blinds	s, heating control	Lighting, blinds, heating control	
Installation site	Flush mour	nting, indoor		Flush mou	inting, indoor	Flush mounting, indoor	
Protection type	IP	20		IF	20	IP 20	
Recomended mounting height	1.1	0 m		1.1	10 m	1.10 m	
Angle of detection	18	80°		1	80°	180°	
Range (right, left / front)	8 m F	Radius		8 m l	Radius	8 m radius	
Number of levels		1			1	1	
Number of zones	1	14			14	14	
lumber of switching segments	-	_			_	_	
lumber of movement sensors		1		1		1	
ight sensor	10-20	00 Lux		10-2000 Lux		10-2000 Lux	
Staircase timer adjustable on the device	1 s - 8 min			1 s -	· 8 min	1 s - 8 min	
Staircase timer adjustable in the ETS	1 s - 255 h			1s-	· 255 h	1 s - 255 h	
Software			1				
ight regulation for a permanent desired brightness	-	_				_	
lumber of movement/presence blocks		5			5	5	
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 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)	ı						
IR receiver up to 10 channels ■ IR functions with KNX telegrams ■ Configuration of brightness treshold, staircase timer and range	-						

# **Movement Detectors**

#### **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.

#### **Programming magnet**



ersion	Art. no.
	MTN639190

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

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

# **Movement Detectors**

#### **Movement detectors System M**





E .m.	
-	
1550	

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



KNX ARGUS 180, flush-mounted

July 2022

וט	scontinuea	July 2022			
Vers	sion	Art. no.	Vers	sion	Art. no.
	white, glossy	MTN631644		white, glossy	MTN631744
	polar white, glossy	MTN631619		polar white, glossy	MTN631719
	active white, glossy	MTN631625		active white, glossy	MTN631725
	anthracite	MTN632614		anthracite	MTN632714
	aluminium	MTN632660		aluminium	MTN632760

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

Angle of detection: 180°

Range: 8 m (for mounting height of 1.1 m)

Number of levels: 1 Number of zones: 14

staircase timer.

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.

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

Angle of detection: 180°

staircase timer

Range: 8 m right/left, 12 m to the front (for a mounting height of 2.20 m)

separately for each sensor. Self-adjusting

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**

#### **Movement detectors System D**



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



Version	Art. no.
Thermoplastic	
☐ lotus white	MTN6302-6035
anthracite	MTN6302-6034
sahara	MTN6302-6033
stainless steel	MTN6302-6036
nickel metallic	MTN6302-6050
champagne metallic	MTN6302-6051
mocca metallic	MTN6302-6052

#### For System D.

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

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

Accessories: Fixing frame for 3-module box MTN6270-0015 D-Life frame, 1-gang, for 3-module box MTN6010-65xx

Contents: With bus connecting terminal and supporting plate.

With cover segments to limit the area of detection.

# **Movement Detectors**

#### **Movement detectors Altira**



#### **KNX Movement detector 180**



Version	Art. no.
white	ALB45153
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. Selfadjusting 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.
□ white	MGU3.533.18
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. Selfadjusting 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

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**

#### **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. Selfadjusting 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

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.

# Presence Detectors

#### **KNX** presence detector



#### SpaceLogic KNX Presence detector DI



Version Art. no. MTN6300-0019 white

KNX presence detector for installation in false ceilings. The device detects the presence of persons even with small movements and is used to control 2 channels

With 2 input channels for connecting push-buttons with which the lighting can be switched on/ off or dimmed. The presence detector can be used as a single detector or in primary/secondary mode.

The detector is mounted with a retaining spring in a round aperture (diameter 68 mm) in a suspended ceiling (e.g. plasterboard). The minimum installation depth is 67 mm.

#### Functions of the KNX software:

Primary/secondary mode: in secondary mode, the detector is used only for motion detection. In primary mode the detector can be set in Auto mode, Semi-auto mode or Test mode. Auto mode (presence): during the delay time, if the ambient brightness is higher than the set lux value for 5 minutes, the load will be switched off regardless of motion detection. Semi-auto mode: An initial press on a push-button is required to switch on the load. Test mode: fix delay time of 3 seconds for each movement detection

Supply voltage: KNX bus voltage Bus current: approx. 10 mA Number of channels: 2

Binary inputs: 2, cable length max. 100 m, cross section 1.0-2.5 mm<sup>2</sup>

Mounting height: 2 m ... 3 m (optimal 2.5 m)

Detection range: 360°, Ø 9 m at 2.5 m mounting height Function modes: Auto (presence), semi auto (absence), test

Sensitivity: adjustable

Detection brightness: 10 ... 2000 Lux Time setting: 3 s, 1 min - 255 min Protection type: IP20

**Dimensions:** 99.2 x 74.1 mm (Ø x H)



#### KNX High Bay presence detector FM



Version Art. no.

MTN6304-0019 white

KNX presence detector for flush-mounted installation in rooms with high ceilings, e.g. high-bay warehouses or sports halls

The presence detector detects the presence of persons even in the case of small movements. Control of the lighting is carried out dependent on movement (2 channels) or additionally dependent on brightness (1 channel) via KNX telegrams. If there is sufficient daylight, the lighting is switched off or adapted to a detection brightness (constant light regulation).

Devices for heating, ventilation or air conditioning (HVAC) can also be controlled (1 channel). The presence detector has two detection sensors (passive infrared), a brightness sensor, an IR receiver and an LED to indicate a detected movement, in test mode indication of the activated programming mode.

The presence detector can be used as a single detector or in master-slave mode. The setting is carried out in the ETS.

The presence detector can also be set and tested without the ETS, but with the appropriate remote control (available as an accessory).

Indoor installation on ceiling (IP 20) on flush-mounted housing with two screws.

Optionally, a protective metal basket (available as an accessory) can be installed to protect the

KNX software functions: Movement detection: The detected presence of a person is signalled using a KNX telegram. Lighting control: The room lighting is controlled depending on movement and brightness. If there is sufficient daylight, the lighting is switched off or dimmed to a constant level. Basic lighting: Activates basic lighting after the overtravel time has elapsed, either for a limited time or dependent on the brightness. HVAC control: Devices for heating, ventilation, air conditioning (HVAC) are switched from energy-saving mode to comfort mode dependent on movement. Operating modes: Single detector, Master, Slave, Master in parallel operation. Master: Controls the lighting and HVAC system. Additional detectors as slaves increase the area of detection. Slave: Only detects movement in its area and sends the information to the master. Master in parallel operation: Controls the lighting in its area (can be expanded with additional detectors as slaves). The only master in the installation only controls the HVAC system for the entire area. 2 logic gates

Angle of detection: 360° Opening angle: 180°

Range: Radius of max. 18 m (tangential)

Mounting height: 4 - 14 m Optimal mounting height: 12 m Time setting: 60 s - 255 min. Sensors: 2 x passive infrared Number of zones: 1416

Detection brightness: internal light sensor adjustable from approx. 2 to 1000 Lux

IP protection rating: IP 20

EC guidelines: Low voltage directive 2006/95/EC and EMC directive 2004/108/EC

Dimensions: 124 x 78 mm (Ø x H)

Accessories: Remote control for KNX presence detector MTN6300-0002

Protective basket for KNX presence detector MTN6300-0001

# **Presence Detectors**



#### KNX Corridor presence detector FM



Version Art. no.

MTN6305-0019 white

KNX presence detector for flush-mounted installation in long corridors.

The presence detector detects the presence of persons even in the case of small movements. Control of the lighting is carried out dependent on movement (2 channels) or additionally dependent on brightness (1 channel) via KNX telegrams. If there is sufficient daylight, the lighting is switched off or adapted to a detection brightness (constant light regulation).

Devices for heating, ventilation or air conditioning (HVAC) can also be controlled (1 channel). The presence detector has two detection sensors (passive infrared), a brightness sensor, an IR receiver and an LED to indicate a detected movement, in test mode indication of the activated programming mode.

The presence detector can be used as a single detector or in master-slave mode. The setting is carried out in the ETS.

The presence detector can also be set and tested without the ETS, but with the appropriate remote control (available as an accessory).

Indoor installation on ceiling (IP 20) on flush-mounted housing with two screws.

Optionally, a protective metal basket (available as an accessory) can be installed to protect the

KNX software functions: Movement detection: The detected presence of a person is signalled using a KNX telegram. Lighting control: The room lighting is controlled depending on movement and brightness. If there is sufficient daylight, the lighting is switched off or dimmed to a constant level. Basic lighting: Activates basic lighting after the overtravel time has elapsed, either for a limited time or dependent on the brightness. HVAC control: Devices for heating, ventilation, air conditioning (HVAC) are switched from energy-saving mode to comfort mode dependent on movement. Operating modes: Single detector, Master, Slave, Master in parallel operation. Master: Controls the lighting and HVAC system. Additional detectors as slaves increase the area of detection. Slave: Only detects movement in its area and sends the information to the master. Master in parallel operation: Controls the lighting in its area (can be expanded with additional detectors as slaves). The only master in the installation only controls the HVAC system for the entire area. 2 logic gates

Angle of detection: 360°

Opening angle: 45°

Range: max. 20 x 4 m (tangential)

max. 12 x 4 m (radial) Mounting height: 2.5 - 5 m Optimal mounting height: 2.8 m Time setting: 60 s - 255 min.

Sensors: 2 x passive infrared Number of zones: 280

Detection brightness: internal light sensor adjustable from approx. 2 to 1000 Lux

Protection rating: IP 20

EC Directives: Low voltage directive 2006/95/EC and EMC directive 2004/108/EC

Dimensions: 124 x 78 mm (Ø x H)

Accessories: Remote control for KNX presence detector MTN6300-0002

Protective basket for KNX presence detector MTN6300-0001



#### KNX High Bay presence detector



Version Art. no.

MTN6354-0019 white

KNX presence detector for surface-mounted installation in rooms with high ceilings, e.g. highbay warehouses or sports halls

The presence detector detects the presence of persons even in the case of small movements. Control of the lighting is carried out dependent on movement (2 channels) or additionally dependent on brightness (1 channel) via KNX telegrams. If there is sufficient daylight, the lighting is switched off or adapted to a detection brightness (constant light regulation).

Devices for heating, ventilation or air conditioning (HVAC) can also be controlled (1 channel). The presence detector has two detection sensors (passive infrared), a brightness sensor, an IR receiver and an LED to indicate a detected movement, in test mode indication of the activated programming mode.

The presence detector can be used as a single detector or in master-slave mode. The setting is carried out in the ETS.

The presence detector can also be set and tested without the ETS, but with the appropriate remote control (available as an accessory).

Indoor installation on ceiling (IP 54) with surface-mounted housing with two screws and plugs.

Optionally, a protective metal basket (available as an accessory) can be installed to protect the

KNX software functions: Movement detection: The detected presence of a person is signalled using a KNX telegram. Lighting control: The room lighting is controlled depending on movement and brightness. If there is sufficient daylight, the lighting is switched off or dimmed to a constant level. Basic lighting: Activates basic lighting after the overtravel time has elapsed, either for a limited time or dependent on the brightness. HVAC control: Devices for heating, ventilation, air conditioning (HVAC) are switched from energy-saving mode to comfort mode dependent on movement. Operating modes: Single detector, Master, Slave, Master in parallel operation. Master: Controls the lighting and HVAC system. Additional detectors as slaves increase the area of detection. Slave: Only detects movement in its area and sends the information to the master. Master in parallel operation: Controls the lighting in its area (can be expanded with additional detectors as slaves). The only master in the installation only controls the HVAC system for the entire area. 2 logic gates

Angle of detection: 360°

Opening angle: 180°

Range: Radius of max. 18 m (tangential)

Mounting height: 4 - 14 m Optimal mounting height: 12 m Time setting: 60 s - 255 min. Sensors: 2 x passive infrared Number of zones: 1416

Detection brightness: internal light sensor adjustable from approx. 2 to 1000 Lux

Protection rating: IP 54

EC Directives: Low voltage directive 2006/95/EC and EMC directive 2004/108/EC

Dimensions: 124 x 65 mm (Ø x H)

Accessories: Remote control for KNX presence detector MTN6300-0002

Protective basket for KNX presence detector MTN6300-0001

# **Presence Detectors**



#### KNX Corridor presence detector



Version Art. no.

MTN6355-0019 white

KNX presence detector for surface-mounted installation in long corridors.

The presence detector detects the presence of persons even in the case of small movements. Control of the lighting is carried out dependent on movement (2 channels) or additionally dependent on brightness (1 channel) via KNX telegrams. If there is sufficient daylight, the lighting is switched off or adapted to a detection brightness (constant light regulation).

Devices for heating, ventilation or air conditioning (HVAC) can also be controlled (1 channel). The presence detector has two detection sensors (passive infrared), a brightness sensor, an IR receiver and an LED to indicate a detected movement, in test mode indication of the activated programming mode.

The presence detector can be used as a single detector or in master-slave mode. The setting is carried out in the ETS.

The presence detector can also be set and tested without the ETS, but with the appropriate remote control (available as an accessory).

Indoor installation on ceiling (IP 54) with surface-mounted housing with two screws and plugs.

Optionally, a protective metal basket (available as an accessory) can be installed to protect the

KNX software functions: Movement detection: The detected presence of a person is signalled using a KNX telegram. Lighting control: The room lighting is controlled depending on movement and brightness. If there is sufficient daylight, the lighting is switched off or dimmed to a constant level. Basic lighting: Activates basic lighting after the overtravel time has elapsed, either for a limited time or dependent on the brightness. HVAC control: Devices for heating, ventilation, air conditioning (HVAC) are switched from energy-saving mode to comfort mode dependent on movement. Operating modes: Single detector, Master, Slave, Master in parallel operation. Master: Controls the lighting and HVAC system. Additional detectors as slaves increase the area of detection. Slave: Only detects movement in its area and sends the information to the master. Master in parallel operation: Controls the lighting in its area (can be expanded with additional detectors as slaves). The only master in the installation only controls the HVAC system for the entire area. 2 logic gates

Angle of detection: 360°

Opening angle: 45°

Range: max. 20 x 4 m (tangential)

max. 12 x 4 m (radial) Mounting height: 2.5 - 5 m Optimal mounting height: 2.8 m

Time setting: 60 s - 255 min. Sensors: 2 x passive infrared Number of zones: 280

Detection brightness: internal light sensor adjustable from approx. 2 to 1000 Lux

Protection rating: IP 54

EC Directives: Low voltage directive 2006/95/EC and EMC directive 2004/108/EC

Dimensions: 124 x 65 mm (Ø x H)

Accessories: Remote control for KNX presence detector MTN6300-0002

Protective basket for KNX presence detector MTN6300-0001



#### KNX Mini presence detector



Version Art. no. white MTN6303-0019

KNX presence detector for inconspicuous installation in suspended ceilings.

The presence detector detects the presence of persons even in the case of small movements. Control of the lighting is carried out dependent on movement (4 channels) or additionally dependent on brightness (1 channel) via KNX telegrams. If there is sufficient daylight, the lighting is switched off or adapted to a detection brightness (constant light regulation).

Devices for heating, ventilation or air conditioning (HVAC) can also be controlled (1 channel). The presence detector has four detection sensors (passive infrared), a brightness sensor, an IR receiver and an LED to indicate a detected movement, in test mode indication of the activated programming mode.

The presence detector can be used as a single detector or in master-slave mode. The setting is carried out in the ETS.

The presence detector can also be set and tested without the ETS, but with the appropriate remote control (available as an accessory).

Indoor installation in suspended ceilings The detector is installed with a retainer spring in a circular aperture (diameter 35 mm) in a suspended ceiling (e.g. plasterboard). The minimum

KNX software functions: Movement detection: The detected presence of a person is signalled using a KNX telegram. Lighting control: The room lighting is controlled depending on movement and brightness. If there is sufficient daylight, the lighting is switched off or dimmed to a constant level. Basic lighting: Activates basic lighting after the overtravel time has elapsed, either for a limited time or dependent on the brightness. HVAC control: Devices for heating, ventilation, air conditioning (HVAC) are switched from energy-saving mode to comfort mode dependent on movement. Operating modes: Single detector, Master, Slave, Master in parallel operation. Master: Controls the lighting and HVAC system. Additional detectors as slaves increase the area of detection. Slave: Only detects movement in its area and sends the information to the master. Master in parallel operation: Controls the lighting in its area (can be expanded with additional detectors as slaves). The only master in the installation only controls the HVAC system for the entire area. 2 logic gates

Angle of detection: 360° Range: max. 6 x 6 m (tangential)

max. 4 x 4 m (radial)

Mounting height: 2 - 5 m Optimal mounting height: 2.8 m Time setting: 60 s - 255 min. Sensors: 4 x passive infrared

Detection brightness: internal light sensor adjustable from approx. 2 to 1000 Lux

IP protection rating: IP 20

EC guidelines: Low voltage directive 2006/95/EC and EMC directive 2004/108/EC

Dimensions: 43 x 71 mm (Ø x H)

Accessories: Remote control for KNX presence detector MTN6300-0002

# Presence Detectors





#### Remote control for KNX presence detector



Art. no. Version

#### MTN6300-0002

IR remote control for operating and setting KNX presence detectors.

The IR remote control can be used to carry out the following functions and settings:

- Activation of KNX programming mode
- Selecting test modes
- Starting and ending test mode
   Calibrating brightness measurement
- Setting the brightness value
- Setting the lighting overtravel time
   Setting switch-on delay for HVAC
- Setting the basic lighting duration

To be completed with: KNX High Bay presence detector FM

KNX Präsenz Halle AP MTN6354-0019

KNX Corridor presence detector FM MTN6305-0019

KNX Präsenz Korridor AP MTN6355-0019

KNX Mini presence detector MTN6303-0019

#### Protective basket for KNX presence detector



Art. no. Version

#### MTN6300-0001

Protective grille for movement and presence detectors.

Surface-mounted installation with screws

To be completed with: KNX High Bay presence detector FM

KNX Präsenz Halle AP MTN6354-0019

KNX Corridor presence detector FM MTN6305-0019

KNX Präsenz Korridor AP MTN6355-0019





# KNX ARGUS Presence Basic



Version	Art. no.	Version	Art. no.
polar white	MTN630719	aluminium	MTN630860
aluminium	MTN630760	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: Two movement/ presence blocks: up to four functions can be triggered per block. Telegrams: 1 bit, 1 byte,

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 seaments

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 brightnessdependent 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. Selfadjusting 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.

# **Presence Detectors**



#### 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

Normal operation, master, slave, monitoring, safety pause, disable function. Four movement sensors: the sensitivity and range can be set separately for each sensor. Self-adjusting staircase timer. Actual brightness value: can be detected via the internal and/or an external light sensor. Actual value correction.

Angle of detection: 360°

Range: a radius of max. 7 m (at a mounting height of 2.50 m)

Number of levels: 6

Number of zones: 136 with 544 switching segments

Number of movement sensors: 4, separately adjustable Light sensor: internal light sensor infinitely adjustable from approx. 10 to 2000 Lux (ETS);

external light sensor via KNX

Number of IR channels: 10 for controlling KNX devices, 10 for configuration EC Directives: Low-voltage guideline 2006/95/EC and EMC guideline 2004/108/EC

Accessories: Surface-mounted housing for ARGUS Presence MTN550619

Transmitter: IR universal remote control MTN5761-0000 Contents: With bus connecting terminal and supporting plate.

#### Surface-mounted housing for ARGUS Presence



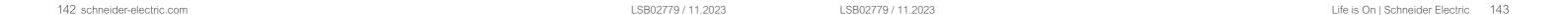
Version	Art. no.
polar white	MTN550619

The surface-mounted housing for ARGUS Presence devices also allows them to be surface

■ 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..



## **Presence Detectors**



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



Version	Art. no.
white, glossy	MTN630444
polar white, glossy	MTN630419
active white, glossy	MTN630425
anthracite	MTN630614
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.

## SpaceLogic KNX

## **Special Sensors**

#### Other sensors



#### KNX brightness and temperature sensor



J.	
Version	Art. no.
light grey	MTN663001

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

## Air Quality Multisensor



Version	Art. no.
polar white	MTN6005-0011

The multisensor monitors the air quality in rooms e.g. in schools or offices. The measured data is sent for processing via the KNX bus. The sensor provides the following data and controls for KNX: CO<sub>2</sub>, relative humidity, temperature, dew point, air pressure, VAV control, temperature

In addition, the sensor has 5 inputs: 2 binary inputs, 1 input can be confiured as a binary or analog input, 2 inputs can be configured as binary or as temperature sensor input (PT1000, 10  $k\Omega$  PTC, 2-/10-/12-/15-/33-/47  $k\Omega$  NTC).

The device is intended for mounting on a flush-mounted box or on the wall.

Power supply: bus voltage

Current consumption from bus: max. 10 mA Ambient temperature: 0  $^{\circ}$ C ... +50  $^{\circ}$ C Measuring range, CO2: 390 ... 5000 ppm Measuring range, temperature: 0  $^{\circ}\text{C}$  ... +50  $^{\circ}\text{C}$ Measuring range, humidity: 0 % ... 100 %

Measuring range, atmoshperic pressure: 300 hPa  $\dots$  1100 hPA

Type of protection: IP 20 **Dimensions:** 80.5 x 80.5 x 17 mm

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#### KNX CO,, humidity and temperature sensor AP



Version Art. no.

polar white MTN6005-0001

The device is a combined sensor for CO<sub>2</sub>, temperature and humidity measurement (relative humidity).

It is used to monitor the air quality in meeting rooms, offices, schools/kindergartens, passive or low-energy houses and living areas without controlled ventilation.

The CO<sub>2</sub> content of the air is a verifiable indicator of the ambient air quality. The higher the CO<sub>2</sub> content, the worse the ambient air is.

KNX software functions: Threshold adjustment range: 500–2550 ppm. Object ""Physical value": 0-9999 ppm. There are 3 independent measured value thresholds for CO<sub>a</sub> and relative humidity and a threshold for the temperature value. An action is carried out if the thresholds are not reached or if they are exceeded: Send priority. Switching, value. Each threshold has a locking object.

Power supply: bus voltage

Current consumption from bus: max. 10 mA Ambient temperature: -5 °C ... +45 °C Measuring range, 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

## **Special Sensors**



#### KNX weather station Basic V2



Version

#### Art. no. MTN6904-0001

The KNX weather station Basic V2 records weather data, analyses these and can transmit them to the bus. The device has a wind sensor, precipitation sensor, temperature sensor and 3 brightness sensors.

- Self contained outdoor weather station
- For measuring wind, rain, brightness and temperature
- For fully automatic blinds and sun protection control with automatic adjustment of blinds according to position of the sun
- Rain sensor with integrated heating
- The weather station can also be operated without mains supply. The heating of the rain sensor will not function then
- Measurement and evaluation directly on device
- Sun protection for up to three facades via 3 integrated brightness sensors
- 8 sun protection channels
- 4 additional threshold channels for connection of external KNX sensors
- 6 logic channels
- Display of weather data on visualisation

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.

#### KNX software functions:

- Adjustment of slat position according to current position of the sun.
- Sun protection area both horizontal (azimuth) and vertical (elevation) can be set exactly.
- 3 installed brightness sensors at 90° spacing.
- 2 objects for external brightness sensors.
- Shading can be temporarily interrupted via object. ■ Universal channels with AND/OR linking of weather parameters.
- Threshold channels with delay with falling below and exceeding.
- Logic channels with 4 input objects + internal link that can be configured with status of the
- universal and threshold channels

Power supply: AC 110-230 V, 50-60 Hz

Power consumption: max. 10 mA with bus voltage

Stand-by consumption: < 0.5 W

Measuring range:

Brightness: 1 - 100000 lx Temperature: - 30 °C ... + 60 °C

Wind speed: 2 - 30 m/s

Ambient temperature: - 20 °C ... + 55 °C

Protection class: II Type of protection: IP 44

Dimensions: 227x121x108 mm (LxWxH)

Accessories: Mast and corner fastening for KNX weather station Basic V2 MTN6904-0002

#### Mast and corner fastening for KNX weather station Basic V2



Version

#### MTN6904-0002

- For corner installation of max. 2 KNX weather stations Basic V2.
- For mast installation of 1 KNX weather station Basic V2.

To be completed with: KNX weather station Basic V2 MTN6904-0001

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#### SpaceLogic KNX Weather station REG-K/4-gang

Art. no.

MTN682991



Version

light grey

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 meas-
- 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.

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: SpaceLogic KNX Power supply REG, AC 24 V/1 A

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, Weather combi-sensor MTN6604-0001

Contents: With bus connecting terminal and cable cover.

## **Special Sensors**







#### Weather combi-sensor



Art. no. Version

MTN6604-0001 black

The weather combi-sensor includes a wind sensor, precipitation sensor, twilight sensor and three brightness sensors (East, South, West). With 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: min. 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: SpaceLogic KNX Weather station REG-K/4-gang

MTN682991

#### Weather combi-sensor DCF-77



Art. no. Version

MTN663692 Discontinued

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

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: SpaceLogic KNX Weather station REG-K/4-gang

MTN682991





## Wind sensor with 0-10 V interface Art. no. Version

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 mm<sup>2</sup>

Fixing method: Mounting bracket Mounting position: vertical In KNX, to be completed with: SpaceLogic KNX Weather station REG-K/4-gang MTN682991,

SpaceLogic KNX Analogue input REG-K 4-gang MTN682191. Contents: With mounting bracket.

Wind sensor with 0-10 V interface and



IP65	
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 mm<sup>2</sup> Fixing method: Mounting bracket Mounting position: vertical In KNX, to be completed with:

SpaceLogic KNX Weather station REG-K/4gang MTN682991, SpaceLogic KNX Analogue input REG-K 4-gang MTN682191.

Accessories: SpaceLogic KNX Power supply REG, AC 24 V/1 A MTN663529 Contents: With mounting bracket.

## **Special Sensors**







Rain sensor		Temperature sensor	
IP65		IP65	
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 mm<sup>2</sup> Fixing method: Mounting bracket Mounting position: approx. 45° In KNX, to be completed with: SpaceLogic KNX Weather station REG-K/4-

gang MTN682991, SpaceLogic KNX Analogue input REG-K 4-gang MTN682191.

Accessories: SpaceLogic KNX 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 mm<sup>2</sup> Type of protection: IP 65 **Dimensions:** 58 x 35 x 64 (W x H x D)

In KNX, to be completed with: SpaceLogic KNX Weather station REG-K/4gang MTN682991,

SpaceLogic KNX Analogue input REG-K 4-gang MTN682191.







## **Brightness sensor** Version Art. no.

MTN663593 light grey 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.

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 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 mm<sup>2</sup>

Type of protection: IP 65 **Dimensions:** 58 x 35 x 64 (W x H x D) In KNX, to be completed with:

SpaceLogic KNX Weather station REG-K/4gang MTN682991.

SpaceLogic KNX Analogue input REG-K 4-gang MTN682191.

Twilight sensor



 IP65

light grey	MTN663594
version	AIL IIO.

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

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 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 mm<sup>2</sup>

Type of protection: IP 65 Dimensions: 58 x 35 x 64 (W x H xD)

In KNX, to be completed with: SpaceLogic KNX Weather station REG-K/4-

SpaceLogic KNX Analogue input REG-K 4-gang MTN682191.

gang MTN682991,



#### SpaceLogic KNX Analogue input REG-K 4-gang

Art. no.

MTN682191

Description of the last of the	
Version	
light grey	

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

Evaluation and limit value processing is performed in the analogue input. With continuity checking of the 4 ... 20 mA inputs.

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

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: SpaceLogic KNX 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 bus connecting terminal and cable cover.

## **Special Sensors**

#### Time switch



#### SpaceLogic 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 the GNSS antenna. To enable radio-controlled time synchronisation via GPS, the device needs to be fitted with the 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
- Time synchronisation by connecting an external GNSS antenna; 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.

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: GNSS Antenna MTN6606-0073

Accessories: Acti 9 - Programming kit for IHP / IC / KNX Year Time Switch CCT15860,

IHP+ and KNX Year Time Switch key CCT15861



#### **GNSS Antenna**



Version Art. no.

#### MTN6606-0073

The GNSS antenna is a multi-satellite receiver, which can receive GPS, GALILEO, GLONASS and QZSS (GNSS: global navigation satellite system).

The GNSS antenna is used for worldwide time determination. As every satellite continually transmits UTC time (Greenwich Mean Time) via an atomic clock, it can be received worldwide. The GNSS antenna receives time signals of the above mentioned satellites and forwards them to the time switch. The exact local time is calculated in the time switch according to the set time zone. The GNSS antenna forwards the position coordinates

The antenna is connected using a 2-core cable (max. 100 m). In KNX, to be completed with: SpaceLogic KNX Year Time Switch REG-K/8/800 MTN6606-

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## **Special Sensors**







DCF77 Antenna V2		
/ersion	Art. no.	
	MTN6606-0070	Discontinued

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: SpaceLogic KNX Year Time Switch REG-K/8/800 MTN6606-0008

# IHP+ and KNX Year Time Switch key Version Art. no.

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 and KNX Year Time Switch

In KNX, to be completed with: SpaceLogic KNX Year Time Switch REG-K/8/800 MTN6606-0008

#### Acti 9 - Programming kit for IHP / IC / KNX Year Time Switch

CCT15861



Version	Art. no.
	CCT15860

For IC Astro and IC 100kp+.

In KNX, to be completed with: SpaceLogic KNX Year Time Switch REG-K/8/800 MTN6606-0008

Accessories: IHP+ and KNX Year Time Switch key CCT15861 Contents: With adapter, memory chip and 2 m USB cabel.

## **Special Sensors**





LSB02779 / 11.2023

#### KNX timer REG-K



Version	Art. no.	
light grey	MTN677290	Discontinued

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

Accuracy: 1 s/day, the application allows additional adjustment Reserve power: 10 years

Antenna line length: max. 100 m

Type of protection: IP 20 EC directives: Low-voltage guideline 2006/95/EC and EMC directive 2004/108/EC

Device width: 2 modules = approx. 36 mm Accessories: DCF77 antenna MTN668091

#### DCF77 antenna



IP54		
Version	Art. no.	
light grey	MTN668091	Discontinued

Antenna for receiving the time by radio signal. The antenna should be connected to a year

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

Type of protection: IP 54 In KNX, to be completed with: KNX timer REG-K MTN677290

Contents: With mounting bracket.

## Switch Actuators Overview

## Switch Actuators Overview

	SpaceLogic KNX Switch/Blind Master	SpaceLogic KNX Switch/Blind Extension	tor REG-	tch actua- ·K/ x/x/10 ual mode	Switch actuator REG-K/8x230/6	Switch actuator REG-K/x230/10 with manual mode				Switch a	ctuator Ba with manu			SpaceLog		h actuator REG ual mode	i-K/x230/16	SpaceLogic KNX Switch actuator REG-K/x230/16 with manual mode and current detection				
		# 1			200°	NOTE OF THE PROPERTY OF THE PR								in and an								
Comercial reference	MTN6705-0008	MTN6805-0008	MTN	6499	MTN646808		MTN6492				MTN67	700	1	MTN647393	MTN647593	MTN647893	MTN648493	MTN647395	MTN647595	MTN647895	MTN648495	
			08	12		02	04	08	12		0002	0004	8000	0012								
Number of switch contacts	8	8	16	24	8	2	4	8	12		2	4	8	12	2	4	8	12	2	4	8	12
Device width (1 md. = 1 module = 18 mm)	4 md.	4 md.	8 md.	12 md.	4 md.	2.5 md.	4 md.	4 md.	6 md.		2.5 md.	4 md.	8 md.	12 md.	2.5 md.	4 md.	8 md.	12 md.	2.5 md.	4 md.	8 md.	12 md.
Manual mode ■ Mechanical ■ Electrical ■ Reset by manual mode triggered actions	(lockable)	on master device		ckable)	_ _ _	(lockable)					■ - -			■ - -				<b>■</b>				
Connecting terminal (consumer load)	Screw terminals	Screw terminals	Plug-in scr	ew terminals	Plug-in screw terminals	Plug-in screw terminals					Screw terminals			Screw terminals				Screw terminals				
Nominal voltage, AC, 50-60 Hz	AC 250 V	AC 250 V	AC 10	0-240 V	AC 230 V		AC 2	230 V				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			AC 100-240 V	
Nominal current	16 A AC-1, IEC 60947-4-1 10 A, IEC 60669- 2-5	16 A AC-1, IEC 60947-4-1 10 A, IEC 60669- 2-5	10 A, co	οςφ = 0,6	6 A, cosφ = 0.6	10 A, cosφ = 1 / 10 A, cosφ = 0.6					16 A, cosφ = 0.6			16 A, cosφ = 0.6				16 A, cosφ = 0.6				
Connection power max. at AC 230 V Incandescent lamps Halogen lamps Capacitive load Fluorescent lamps	2300 W 2300 W 10 AX, 140 μF	2300 W 2300 W 10 AX, 140 μF	170 100 1800 W u sa 1000 W pa	00 W 00 W 5 µF uncompen- ited, arallel-com- sated	1380 W 1380 W 105 µF 1000 VA	2000 W 1700 W 105 μF 1800 W uncompensated, 1000 W parallel-compensated					3600 W 2500 W 105 µF 2000 VA			3600 W 2500 W 200 µF 2500 VA				3600 W 2500 W 200 µF 2500 VA				
DC power supply	not allowed	not allowed	not a	llowed	not allowed	not allowed				not allowed			not allowed				Purely resistiv	e loads allowed	, DC 12-24 V, +	10 %, 0,1 - 16 A		
Software	Software																					
ON/OFF delay			I									-	_									
Staircase lighting function with/without manual OFF  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		The software functions are pro- vided by the maste device	- - - - -		- - - -	- - - -				- - - - -		- - - -										
Flashing				_			_	_				_					<b>-</b>					
Make/Break contact adjustable			I									— (make contact)										
Changeover contact adjustable	_			_			_	-				_	_						_			
Status/Status feedback Active Passive Manual mode: Identify and acknowledge / Reset Delayed per device / Delayed per channel				/— / ■	-/- -/-	■ ■/- -/-					<u>-</u> / —			-/- -/-								
Behaviour of bus voltage recovery	<b>I</b> /			<i>1</i>	<b>■</b> /		<b>I</b>	<b>/</b>				■/■			■/■				■/■			
Scenes ■ Sending delay	16 ■			5	8_		5					_				8_			8			
Higher priority functions	■ Logic function ■ Disable function or priority function		■ Disable ■ Logic full priority		■ Disable function ■ Logic function or priority function	Disable function  Logic function or priority function				■ Logic fu	■ Logic function			■ Disable function ■ Logic function or priority function				■ Logic function ■ Disable function or priority function				
Disable function ■ Behaviour of locking after bus voltage recovery	•																					
Logic function ■ Logic operation ■ Value comparison / logic / gate function / filter / time delay		-								-1-1-1-1-		-1-1-1-1-										
Central function ■ Time delay / Save changes			_ i	<i>I</i> —	_/_		_/	<b>1</b>				— —/—							<b>=</b>			
Safety function				_	_		_	_				_			_							
Line monitoring (sending live signal)			-	_	_		_	_				_	_			_			•			
Energy saving function			-	_	_		_					_									_	

## Switch Actuators Overview

## **Switch Actuators Overview**

	SpaceLogic KNX Switch/Blind Master	SpaceLogic KNX Switch/Blind Extension	Blind/switch actua- tor REG-K/ x/x/10 with manual mode	Switch actuator REG-K/8x230/6			r REG-K/x lual mode					Switch actuator Basic REG-K/x/16 A with manual mode			SpaceLogic KNX Switch actuator REG-K/x230/16 with manual mode			SpaceLogic KNX Switch actuator REG-K/x230/16 with manual mode and current detection			
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				::::					in the state of th									
Comercial reference	MTN6705-0008	MTN6805-0008	MTN6499	MTN646808		MTN	6492			MTN6700-			MTN6700			MTN647893	MTN647893   MTN648493		MTN647595	MTN647895	MTN648495
Comercial reference			08 12		02	04	08	12		0002	0004	8000	0012								
Current detection  AC/DC  Display energy consumption* Several limit monitorings Switch counter Hours counter Combined counter (Switch and hour counter with limit monitoring)	_ _ _ _ _	The software functions are pro- vided by the master device		_ _ _ _ _		- - - -	- - - - - -				- - - - -	- - - - - -									
Heating function  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

polar white

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 ±10%

Operating voltage: min. AC 90 V - max. AC 265 V

MTN629993

Mains frequency: 50-60 Hz ±10% Nominal current: 16 A, ohmic load cosφ = 1

10 A, inductive load  $\cos \varphi = 0.6$ 

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

**③ ② ◎ Ø** 



#### SpaceLogic KNX Flush Mounted Switch Actuator 1g with 3 binary inputs



#### Art. no. MTN6003-0011

1-gang switch actuator with three binary inputs for installation in a size 60 switch box. Floating contacts can be connected to the three inputs. Optionally, an NTC temperature sensor can be connected to the third input.

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 10 m.

KNX Secure compatible

#### 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. Disable function or priority control. Scene function (64). 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. Temperature, Brightness, Color temperature, 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.

#### Logic module:

Logic operation, Converter, Blocking element, Comparator, Limit value

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. 2500 W HV LED lamps: AC 230 V, max. 400 W Ohmic load: AC 230 V, 3000 W

Capacitive load: AC 230 V, 16 A, max. 140 µF

LV halogen lamps: max. 1200 VA, wound transformer

max. 1500 W, electronic transformers

Fluorescent lamps: AC 230 V, max. 1000 W, uncompensated AC 230 V, max. 1160 W (140 µF) with parallel compensation

Inputs: 3

Temperature range: -5 °C to 45 °C Dimensions: 48x50x28 (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 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 socketoutlet 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 program-

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  $\mu F$ 

Inputs: 2

Temperature range: -5 °C to 45 °C

Type of protection: IP 20

Dimensions: 53x53x28 (WxHxD)

Note: For installation in a double box or an electronic box (Kaiser). There must be a minimum gap of 4mm between the 230V connection and the connection for the KNX/Inputs (SELV)

## Switch Actuators



#### 2-gang switch actuator 6 A FM with 2 inputs









Art. no.

Version

#### 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

Art. no

MTN649202



Version

light grey

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 pushbutton 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.

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,  $\cos \varphi = 1$ ; 10 A,  $\cos \varphi = 0.6$ 

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/2x/16 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

KNX software functions: Staircase lighting function with/without manual OFF function, cutout 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  $\cos \varphi = 0.6$ 

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

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.

# 268 880

## Switch Actuators

#### SpaceLogic KNX Switch actuator REG-K/2x230/16 with manual mode



LSB02779 / 11.2023

Art. no. Version

MTN647393 light grey

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.

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 ±10%

Operating voltage: min. AC 90 V - max. AC 265 V

Mains frequency: 50-60 Hz ±10% For each switching contact:

Switching current: 16 A, cosφ= 0.6

AC1 operation: max. 16 A AC3 operation: max. 10 A AC5 operation: max. 16 A

DC current switching capacity: max. 16 A/ 24 V DC

Output life endurance: Mechanical: >106

AC1/AC3/AC5 operation: >3x104

230V, 1A resistive: >8x10<sup>5</sup>

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

Minimum switching performance: 100 mA/12 V AC/DC

Maximum peak inrush-current:

150µs: 600 A 250µs: 480 A 600µs: 300 A

Device width: 2.5 modules = approx. 45 mm



SpaceLogic KNX Switch actuator REG-K/2x230/16 with manual mode and



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.

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 100-240 V ±10% DC 12-24 V, 0.1-16 A

Operating voltage: min. AC 90 V - max. AC 265 V

Mains frequency: 50-60 Hz ±10% For each switching contact:

Switching current: 16 A, cosφ= 0.6

AC1 operation: max. 16 A AC3 operation: max. 10 A

AC5 operation: max. 16 A

DC current switching capacity: max. 16 A/ 24 V DC

Output life endurance: Mechanical: >10<sup>6</sup>

AC1/AC3/AC5 operation: >3x104

230V, 1A resistive: >8x105

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

Minimum switching performance: 100 mA/12 V AC/DC

Maximum peak inrush-current:

150µs: 600 A 250µs: 480 A

600µs: 300 A 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, for alternating current (AC)

Description: 100 mA

Device width: 2.5 modules = approx. 45 mm

Contents: With bus connecting terminal and cable cover.

## SpaceLogic KNX

## Switch Actuators





LSB02779 / 11.2023

#### Switch actuator REG-K/4x230/10 with manual mode

MTN649204



Version Art. no.

light grey

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 pushbutton 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.

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,  $\cos \varphi = 1$ ; 10 A,  $\cos \varphi = 0.6$ 

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

KNX software functions: Staircase lighting function with/without manual OFF function, cutout 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  $\cos \varphi = 0.6$ 

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



#### SpaceLogic KNX Switch actuator REG-K/4x230/16 with manual mode



Version

MTN647593 light grey

Art. no.

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.

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: 230 V AC, 50-60 Hz

For each switching contact: Switching current: 16 A, cosφ= 0.6

AC1 operation: max. 16 A AC3 operation: max. 10 A AC5 operation: max. 16 A

DC current switching capacity: max. 16 A/ 24 V DC

Output life endurance:

Mechanical: >10<sup>6</sup>

AC1/AC3/AC5 operation: >3x104

230V, 1A resistive: >8x105Incandescent lamps: 230 V AC, max. 3600 W

Halogen lamps: 230 V AC, max. 2500 W Fluorescent lamps: AC 230 V, max. 2500 VA

Capacitive load: 230 V AC, 16 A, max. 200 µF Minimum switching performance: 100 mA/12 V AC/DC

Maximum peak inrush-current:

150µs: 600 A 250µs: 480 A 600µs: 300 A

Device width: 4 modules = approx. 72 mm Contents: With bus connecting terminal and cable cover. SpaceLogic KNX

## Switch Actuators



SpaceLogic KNX Switch actuator REG-K/4x230/16 with manual mode and



Version Art. no.

MTN647595 light grey

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.

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: 230 V AC, 50-60 Hz

DC 12-24 V ±10%, 0.1-16 A

For each switching contact: Switching current: 16 A,  $\cos \varphi = 0.6$ 

AC1 operation: max. 16 A AC3 operation: max. 10 A AC5 operation: max. 16 A

DC current switching capacity: max. 16 A/ 24 V DC

Output life endurance:

Mechanical: >106

AC1/AC3/AC5 operation: >3x104

230V, 1A resistive: >8x105Incandescent lamps: 230 V AC, max. 3600 W

Halogen lamps: 230 V AC, max. 2500 W

Fluorescent lamps: 230 V AC, max. 2500 VA, with parallel compensation

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

Minimum switching performance: 100 mA/12 V AC/DC

Maximum peak inrush-current:

150µs: 600 A 250µs: 480 A 600µs: 300 A

Current detection load current:Detection range: 0.1 A to 16 A (sine effective value or direct

Detection accuracy: +/- 8% of the present current value (sine) and +/- 100 mA

Frequency: 50/60 Hz with alternating voltage

Display: 100 mA

Device width: 4 modules = approx. 72 mm



# 0000 0000

#### Switch actuator REG-K/8x230/6 Version Art. no. MTN646808 light grey

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.

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,  $\cos \varphi = 0.6$ 

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 actuator REG-K/8x230/10 with manual mode



Version Art. no.

MTN649208 liaht arev

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 pushbutton 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.

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,  $\cos \varphi = 1$ ; 10 A,  $\cos \varphi = 0.6$ 

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.

## Switch Actuators



LSB02779 / 11.2023

#### SpaceLogic KNX Switch/Blind Master

Version



Art. no. MTN6705-0008 light grey

For independent control of up to 4 blind/roller shutter drives or for switching up to 8 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 number of channels can be increased by connecting SpaceLogic KNX Switch/Blind

Extensions. A maximum of 2 Extensions can be connected to the Master, so up to 24 loads can be switched or 12 blind drives can be controlled. The Master controls the Extensions, their power supply and communication with the bus.

Operating elements: Push-buttons for switching to manual operation, for choosing the device to be operated (Master and Extensions) and for channel control

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

General KNX software functions: Energy saving, device safety, device health, manual operation, PIN code for firmware update.

Blind actuator functions: Running time, idle time, step interval, locking function, movement range limits, weather alarm, 8-bit positioning for height and slats, scenes, status and feedback

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, switch-off prewarning for staircase lighting function, scenes, central function, locking function, logic operation or priority control, status feedback function for each

Supply voltage: KNX bus, approx. 6.5 mA (Master), approx. 9 mA (Master + 1 Extension), approx. 12.5 mA (Master + 2 Extensions)

Nominal voltage: AC 250 V, 50-60 Hz

Nominal current: 16 A AC-1, IEC 60947-4-1 / 10 A, IEC 60669-2-5

For each blind output: Motor load: 1000 VA For each switch output: Nominal load

Incandescent lamps: 2300 W Halogen lamps: 2300 W

**LED:** 200 W

Capacitive load: 10 AX, max. 140 µF

Inductive load: 10 A,  $\cos \varphi = 0.6$ 

Relay data - inrush current: max. 800 A/200 µs, max. 165 A/20 ms

Device width: 4 modules = approx. 72 mm

Accessories: SpaceLogic KNX Switch/Blind Extension MTN6805-0008

Contents: With bus connecting terminal.



#### SpaceLogic KNX Switch/Blind Extension





Version Art. no.

MTN6805-0008 light grey

The SpaceLogic KNX Switch/Blind Extension is a switch actuator that extends the channels of a SpaceLogic KNX Switch/Blind Master or a SpaceLogic KNX Universal Dimming Master.

For independent control of up to 4 blind/roller shutter drives or for switching up to 8 loads via make contacts. The function of the blind or switching channels is freely configurable.

The ETS programming is carried out in the ETS application of the Master. The Master controls the function of the Extension, the power supply and communication to the KNX bus.

All outputs can be operated manually using the Master's keypad.

On the Extension a green LED indicates readiness for operation, a red manual operation LED shows whether the Extension is controlled manually.

For installation on DIN rails TH35 according to EN 60715. The connection to the Master or another Extension is made either with a Module Link or with a Cable Link.

KNX software functions: The functions are set in the KNX application of the Master

Supply voltage: via link interface Nominal voltage: AC 250 V, 50-60 Hz

Nominal current: 16 A AC-1, IEC 60947-4-1 / 10 A, IEC 60669-2-5

For each blind output: Motor load: 1000 VA For each switch output: **Nominal load** Incandescent lamps: 2300 W Halogen lamps: 2300 W

**LED**: 200 W

Capacitive load: 10 AX, max. 140 µF Inductive load: 10 A,  $\cos \varphi = 0.6$ 

Relay data - inrush current: max. 800 A/200 µs, max. 165 A/20 ms

Device width: 4 modules = approx. 72 mm

In KNX, to be completed with: SpaceLogic KNX Switch/Blind Master MTN6705-0008, Spa-

ceLogic KNX Universal Dimming Master MTN6710-0102

Accessories: SpaceLogic KNX Cable Link S MTN6941-0001, SpaceLogic KNX Cable Link L MTN6941-0002

SpaceLogic KNX Cable Link L

Contents: With Module Link.

SpaceLogic KNX Cable Link S













#### Version Art. no. Art. no. MTN6941-0002 MTN6941-0001 30 cm 150 cm The Cable Link connects Master/Ex-The Cable Link connects Master/ tension or Extension/Extension that Extension or Extension/Extension that are not placed directly next to each are not placed directly next to each other on the DIN rail. other on the DIN rail.

Length: 150 cm

#### SpaceLogic KNX Module Link



Length: 30 cm

Version Art. no.

#### MTN6940-0000

The Module Link connects Master/Extension or Extension/Extension that are placed directly next to each other on the DIN rail.

## SpaceLogic KNX

## Switch Actuators



LSB02779 / 11.2023

#### KNX Switch Actuator Basic REG-K/8x/16 A with manual mode



Version

MTN6700-0008

Art. no.

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.

KNX software functions: Staircase lighting function with/without manual OFF function, cutout 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  $\cos \varphi = 0.6$ 

**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. 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.



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



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.

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 ±10%

Operating voltage: min. AC 90 V - max. AC 265 V

Mains frequency: 50-60 Hz ±10% For each switching contact:

Switching current: 16 A, cosφ= 0.6

AC1 operation: max. 16 A

AC3 operation: max. 10 A

AC5 operation: max. 16 A

DC current switching capacity: max. 16 A/ 24 V DC

Output life endurance:

Mechanical: >10<sup>6</sup>

AC1/AC3/AC5 operation: >3x104

230V, 1A resistive: >8x105

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

Minimum switching performance: 100 mA/12 V AC/DC

Maximum peak inrush-current:

150µs: 600 A 250µs: 480 A

600µs: 300 A

Device width: 8 modules = approx. 144 mm

Contents: With bus connecting terminal and cable cover.

# Switch Actuators



## SpaceLogic KNX Switch actuator REG-K/8x230/16 with manual mode and





Version light grey Art. no. 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.

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 100-240 V ±10% DC 12-24 V, 0.1-16 A

Operating voltage: min. AC 90 V - max. AC 265 V

Mains frequency: 50-60 Hz ±10% For each switching contact:

Switching current: 16 A, cosφ= 0.6

AC1 operation: max. 16 A

AC3 operation: max. 10 A AC5 operation: max. 16 A

DC current switching capacity: max. 16 A/ 24 V DC

Output life endurance:

Mechanical: >10<sup>6</sup>

AC1/AC3/AC5 operation: >3x104

230V, 1A resistive: >8x105

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

Minimum switching performance: 100 mA/12 V AC/DC

Maximum peak inrush-current:

150µs: 600 A 250µs: 480 A 600µs: 300 A

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, for alternating current (AC) Description: 100 mA

Device width: 8 modules = approx. 144 mm

## Switch Actuators



## Switch actuator REG-K/12x230/10 with manual mode

MTN649212



Version Art. no.

light grey

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 pushbutton 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.

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,  $\cos \varphi = 1$ ; 10 A,  $\cos \varphi = 0.6$ 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.

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#### KNX Switch Actuator Basic REG-K/12x/16 A with manual mode



Version Art. no.

#### 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

KNX software functions: Staircase lighting function with/without manual OFF function, cutout 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  $\cos \varphi = 0.6$ 

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. 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



LSB02779 / 11.2023

#### SpaceLogic KNX Switch actuator REG-K/12x230/16 with manual mode



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.

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: 230 V AC, 50-60 Hz

For each switching contact: Switching current: 16 A, cosφ= 0.6

AC1 operation: max. 16 A AC3 operation: max. 10 A AC5 operation: max. 16 A

DC current switching capacity: max. 16 A/ 24 V DC

Output life endurance:

Mechanical: >106

AC1/AC3/AC5 operation: >3x104

230V, 1A resistive: >8x105Incandescent lamps: 230 V AC, max. 3600 W

Halogen lamps: 230 V AC, max. 2500 W Fluorescent lamps: AC 230 V, max. 2500 VA Capacitive load: 230 V AC, 16 A, max. 200 µF

Minimum switching performance: 100 mA/12 V AC/DC

Maximum peak inrush-current:

150µs: 600 A 250µs: 480 A 600µs: 300 A

Device width: 12 modules = approx. 216 mm

## **Switch Actuators**



SpaceLogic KNX Switch actuator REG-K/12x230/16 with manual mode and



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.

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 100-240 V ±10% DC 12-24 V, 0.1-16 A

Operating voltage: min. AC 90 V - max. AC 265 V Mains frequency: 50-60 Hz ±10%

For each switching contact:

Switching current: 16 A, cosφ= 0.6

AC1 operation: max. 16 A

AC3 operation: max. 10 A

AC5 operation: max. 16 A

DC current switching capacity: max. 16 A/ 24 V DC

Output life endurance:

Mechanical: >10<sup>6</sup>

AC1/AC3/AC5 operation: >3x104

230V, 1A resistive: >8x105

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

Minimum switching performance: 100 mA/12 V AC/DC

Maximum peak inrush-current:

150µs: 600 A 250µs: 480 A

600µs: 300 A 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, for alternating current (AC)

Description: 100 mA

Device width: 12 modules = approx. 216 mm

Contents: With bus connecting terminal and cable cover.

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## **Blind Actuators Overview**

## Blind Actuators Overview

	SpaceLogic KNX Switch/ Blind Master	SpaceLogic KNX Switch/ Blind Extension		ator REG-K/x/x/10 lual mode	Blind actuator REG-K/4x/6	SpaceLogic KNX Blind actuator REG-K/4x24/6 with manual mode	Roller shutter actuator REG-K/4x/10 with manual mode	SpaceLogic KN) REG-# with man	(/x/10	SpaceLogic KNX Blind actuator REG-K/8x/10 with manual mode
			:: :: ::				F - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	is	::	
Article number	MTN6705-0008	MTN6805-0008	MTN649908	MTN649912	MTN646704	MTN648704	MTN649704	MTN649802	MTN649804	MTN649808
Number of channels	8	8	8	12	4	4	4	2	4	8
Device width	4 modules	4 modules	8 modules	12 modules	4 modules	4 modules	4 modules	4 mo	dules	8 modules
Manual mode push-buttons	•	■.	I		_		•			
Connecting terminal (consumer load)	Screw terminals	Screw terminals	Plug-in scre	ew terminals	Plug-in screw terminals	Plug-in screw terminals	Plug-in screw terminals	Plug-in scre	ew terminals	Plug-in screw terminals
Nominal voltage, AC, 50-60 Hz	AC 250 V	AC 250 V	AC 10	0-240 V	AC 230 V	_	AC 100-240 V	AC 100	)-240 V	AC 230 V
Nominal voltage, DC	_	_	-	_	_	DC 24 V, ±10 %	_	_		_
Nominal current	16 A AC-1, IEC 60947-4-1 10 A, IEC 60669-2-5	16 A AC-1, IEC 60947-4-1 10 A, IEC 60669-2-5	10 A, co	osφ = 0,6	6 A, cosφ = 0,6	6 A	10 A, cosφ = 0,6	10 A, cosφ = 0,6		10 A, cosφ = 0,6
Auxiliary power (optional)	_	_	AC 110-240 V, 50	0-60 Hz, max. 2 VA	_	_	_	_	_	AC 110-240 V, 50-60 Hz, max. 2 V
Software	·									
Configuration switching or blind	•	The software functions are			_	_	_	_	_	_
Defining blind type		provided by the master device					_			
Slat functionality		-	ı				_			
Calibration (reference movement)		-	ı	<b>I</b>						
Movement range limit			-	_						
Pause on reverse on change in direction		-		•					 I	
Extended drive parameters			ı							
Control by ■ manual mode via the push-buttons of the actuator ■ automatic objects or preset objects ■ manual operation via objects	•		!	<u> </u>	_	i	•			•
Manual mode enable/disable when bus voltage fails	_		,	condition: ry power)	_	-	-	_	_	■ (Precondition: auxiliary power)
Locking manual operation via objects	•		-	_						
Weather alarm functions  ■ Wind alarm  ■ Rain alarm  ■ Frost alarm  ■ Set the order of priority  ■ Behaviour at start/end of the wether alarm	3 1 1		-	1 1	3 1 1	3 1 1	3 1 1		3 1 1	3 1 1
Alarm functions ■ Behavior at the start/end of the alarm	•		-	_	•	•	•	ı		
Set the order of priority for higher-level functions (alarm, weather alarm, locking, movement range)			-	_						
Scenes	16			5	4	5	5		5	5
Disable function ■ Behavior at the start/end of the locking				_	•	•	•			
Behaviour of ous voltage failure / bus voltage recovery / download	■/■/■		<b>■</b> /1	<b>=</b> / <b>=</b>	■/■/■	■/■/■	■/■/■	<b>=</b> /I	<b>1</b>	
Status messages Hight Slat Automatic Drive locking or movement range limit	1			<b>.</b>			- - - -		!	
Line monitoring (sending live signal)		]	-	_	_	_	_	_	_	_
Energy saving function			_	_	_	_	_	_	_	_

## **Blind Actuators**

#### **Blind actuators**



0000 0000

#### SpaceLogic KNX Blind actuator REG-K/2x/10 with manual mode

Art no



Version

MTN649802 light grey

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.

KNX software functions: Blind functions: Blind type. Running time. Idle time. Step interval. Differentiated disable functions and weather alarms. 8-bit positioning for height and slat. Scenes. Manual/automatic mode. Differentiated status and status feedback functions.

For each blind output:

Nominal voltage: AC 100-240 V ±10%

Operating voltage: min. AC 90 V - max. AC 265 V Mains frequency: 50-60 Hz ±10%

Nominal current: 10 A, inductive load  $\cos \varphi = 0.6$ 

Motor load: AC 100 V, max. 434 W

AC 230 V, max. 1000 W

AC 240 V, max. 1043 W

Device width: 4 modules = approx. 72 mm

Contents: With bus connecting terminal and cable cover.

Art. no.

#### SpaceLogic KNX Blind actuator REG-K/4x24/6 with manual mode



Version

MTN648704 light grey

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.

KNX software functions: Blind functions: Blind type. Running time. Idle time. Step interval. Differentiated disable functions and weather alarms. 8-bit positioning for height and slat. Scenes. Manual/automatic mode. Differentiated status and status feedback functions. For each blind output:

Nominal voltage: DC 24 V ±10 %

Nominal current: 6 A

Load types: 24 V direct current drives

Device width: 4 modules = approx. 72 mm

Contents: With bus connecting terminal and cable cover.

## **Blind Actuators**





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#### Blind actuator REG-K/4x/6



Version Art. no. MTN646704 light grey

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.

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,  $\cos \varphi = 0.6$ 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

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.

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 ±10% Operating voltage: min. AC 90 V - max. AC 265 V

Mains frequency: 50-60 Hz ±10%

**Nominal current:** 10 A, inductive load  $\cos \varphi = 0.6$ Motor load: AC 100 V, max. 434 W

AC 230 V, max. 1000 W AC 240 V, max. 1043 W

Device width: 4 modules = approx. 72 mm

## **Blind Actuators**



## SpaceLogic KNX Blind actuator REG-K/4x/10 with manual mode



Version Art. no.

MTN649804 light grey

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.

KNX software functions: Blind functions: Blind type. Running time. Idle time. Step interval. Differentiated disable functions and weather alarms. 8-bit positioning for height and slat. Scenes. Manual/automatic mode. Differentiated status and status feedback functions.

For each blind output:

Nominal voltage: AC 100-240 V ±10% Operating voltage: min. AC 90 V - max. AC 265 V

Mains frequency: 50-60 Hz ±10%

**Nominal current:** 10 A, inductive load  $\cos \varphi = 0.6$ 

Motor load: AC 100 V, max. 434 W

AC 230 V, max. 1000 W AC 240 V, max. 1043 W

Device width: 4 modules = approx. 72 mm

Contents: With bus connecting terminal and cable cover.

#### SpaceLogic KNX 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.

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,  $\cos \varphi = 0.6$ 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**



#### SpaceLogic KNX Flush Mounted Blind/Switch actuator 2g with 3 binary inputs





Version

Art. no.

#### MTN6003-0012

1-gang blind actuotr or 2-gang switch actuator with three binary inputs for installation in a size 60 switch box. Floating contacts can be connected to the three inputs. Optionally, an NTC temperature sensor can be connected to the third input.

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 10 m.

KNX Secure compatible

#### 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. Scene function (64). Memory function for scenes.

#### Input function:

Free assignment of the switching, dimming, blind and valuator functions. Locking object. Behaviour when bus voltage recovers. Temperature, Brightness, Color temperature, 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.

Logic module:

Logic operation, Converter, Blocking element, Comparator, Limit value

Nominal voltage: AC 230 V

Nominal current: ∑ 16 A, ohmic load

Switch contact: Make contact, floating relay contact

Nominal output

Motor: AC 230 V, max. 1380 W

Incandescent lamps: AC 230 V, max. 2500 W Halogen lamps: AC 230 V, max. 2500 W HV LED lamps: AC 230 V, max. 400 W

Ohmic load: AC 230 V, 3000 W

Capacitive load: AC 230 V, 16 A, max. 140 µF

LV halogen lamps: max. 1200 VA, wound transformer max. 1500 W, electronic transformers

Fluorescent lamps: AC 230 V, max. 1000 W, uncompensated AC 230 V, max. 1160 W (140 µF) with parallel compensation

Inputs: 3

Temperature range: -5 °C to 45 °C Dimensions: 48x50x28 (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 actuator FM with 3 inputs





Version

#### MTN6003-0004

Art. no.

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

#### MTN6003-0006

Art. no.

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)

## **Blind Switch Actuators**

#### Blind/switch actuators



#### SpaceLogic KNX Switch/Blind Master





Version

MTN6705-0008 light grey

For independent control of up to 4 blind/roller shutter drives or for switching up to 8 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 number of channels can be increased by connecting SpaceLogic KNX Switch/Blind Extensions. A maximum of 2 Extensions can be connected to the Master, so up to 24 loads can be switched or 12 blind drives can be controlled. The Master controls the Extensions, their power supply and communication with the bus.

Operating elements: Push-buttons for switching to manual operation, for choosing the device to be operated (Master and Extensions) and for channel control

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

General KNX software functions: Energy saving, device safety, device health, manual operation, PIN code for firmware update

Blind actuator functions: Running time, idle time, step interval, locking function, movement range limits, weather alarm, 8-bit positioning for height and slats, scenes, status and feedback

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, switch-off prewarning for staircase lighting function, scenes, central function, locking function, logic operation or priority control, status feedback function for each

Supply voltage: KNX bus, approx. 6.5 mA (Master), approx. 9 mA (Master + 1 Extension), approx. 12.5 mA (Master + 2 Extensions)

Nominal voltage: AC 250 V, 50-60 Hz

Nominal current: 16 A AC-1, IEC 60947-4-1 / 10 A, IEC 60669-2-5

For each blind output: Motor load: 1000 VA For each switch output:

Nominal load Incandescent lamps: 2300 W Halogen lamps: 2300 W

**LED**: 200 W

Capacitive load: 10 AX, max. 140 µF Inductive load: 10 A,  $\cos \varphi = 0.6$ 

Relay data - inrush current: max. 800 A/200 µs, max. 165 A/20 ms

Device width: 4 modules = approx. 72 mm

Accessories: SpaceLogic KNX Switch/Blind Extension MTN6805-0008

Contents: With bus connecting terminal.

# Blind/Switch Actuators

# 0 m m - 0 0

#### SpaceLogic KNX Switch/Blind Extension





Version Art. no.

light grey

MTN6805-0008 The SpaceLogic KNX Switch/Blind Extension is a switch actuator that extends the channels of

a SpaceLogic KNX Switch/Blind Master or a SpaceLogic KNX Universal Dimming Master. For independent control of up to 4 blind/roller shutter drives or for switching up to 8 loads via

make contacts. The function of the blind or switching channels is freely configurable. The ETS programming is carried out in the ETS application of the Master. The Master controls the function of the Extension, the power supply and communication to the KNX bus.

All outputs can be operated manually using the Master's keypad.

On the Extension a green LED indicates readiness for operation, a red manual operation LED shows whether the Extension is controlled manually.

For installation on DIN rails TH35 according to EN 60715. The connection to the Master or another Extension is made either with a Module Link or with a Cable Link.

KNX software functions: The functions are set in the KNX application of the Master

Supply voltage: via link interface Nominal voltage: AC 250 V, 50-60 Hz

Nominal current: 16 A AC-1, IEC 60947-4-1 / 10 A, IEC 60669-2-5

For each blind output: Motor load: 1000 VA For each switch output: Nominal load Incandescent lamps: 2300 W

Halogen lamps: 2300 W **LED**: 200 W

Capacitive load: 10 AX, max. 140 µF

Inductive load: 10 A,  $\cos \varphi = 0.6$ 

Relay data - inrush current: max. 800 A/200 µs, max. 165 A/20 ms

Device width: 4 modules = approx. 72 mm

In KNX, to be completed with: SpaceLogic KNX Switch/Blind Master MTN6705-0008, Spa-

ceLogic KNX Universal Dimming Master MTN6710-0102

Accessories: SpaceLogic KNX Cable Link S MTN6941-0001, SpaceLogic KNX Cable Link L MTN6941-0002

Contents: With Module Link...





#### SpaceLogic KNX Cable Link S SpaceLogic KNX Cable Link L Version Art. no. Art. no. MTN6941-0001 MTN6941-0002 30 cm 150 cm The Cable Link connects Master/

The Cable Link connects Master/Extension or Extension/Extension that are not placed directly next to each other on the DIN rail. Length: 30 cm

Extension or Extension/Extension that are not placed directly next to each other on the DIN rail. Length: 150 cm

### SpaceLogic KNX Module Link



Version Art. no.

#### MTN6940-0000

The Module Link connects Master/Extension or Extension/Extension that are placed directly next to each other on the DIN rail.



## 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.

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.

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 ±10%

Operating voltage: min. AC 90 V - max. AC 265 V

Mains frequency: 50-60 Hz ±10%

For each blind output:

**Nominal current:** 10 A, inductive load  $\cos \varphi = 0.6$ 

Motor load: AC 100 V, max. 434 W

AC 230 V, max. 1000 W

AC 240 V, max. 1043 W

For each switch output:

Nominal current: 10 A, ohmic load  $\cos \varphi = 1$ 

10 A, inductive load  $\cos \varphi = 0.6$ 

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 ±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 weatherdependent 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

MTN649912



Version





light grey

Art. no.

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.

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 ±10%

Operating voltage: min. AC 90 V - max. AC 265 V

Mains frequency: 50-60 Hz ±10%

For each blind output:

Nominal current: 10 A, inductive load  $\cos \varphi = 0.6$ 

Motor load: AC 100 V, max. 434 W

AC 230 V, max. 1000 W AC 240 V, max. 1043 W

For each switch output:

Nominal current: 10 A, ohmic load cos

0 = 1

10 A, inductive load  $\cos \varphi = 0.6$ 

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 ±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 weatherdependent automatic functions of the weather combi-sensor/DCF77 art. no. MTN663692. If you require these functions then use the blind actuators art. no. MTN6498...

## **Hybrid Actuators**

#### **Hybrid Actuators**



#### SpaceLogic KNX Hybrid Switch Actuator REG-K/4x250/10 with manual mode



#### For the Chinese market.

For independent switching of 4 loads or for controlling up to 2 blinds/roller shutters, 1 fan coil with 3 levels, two 2-pipe valve controls or one 4-pipe valve control. All functions are freely configurable and can be operated manually with a switch on the device. A green LED indicates readiness for operation after the application has been loaded. For mounting on DIN rails TH35 according to EN61715. The bus connection is made via a bus connection terminal.

General KNX software functions: Live signal, enabling safety priority function, central control of switching/curtains function, sending delay after bus voltage recovery

#### Switching actuator functions

Preset, Logic, Scene, Threshold, Safety, Forced, Locking, Central, Time function for each channel including delay, flashing and staircase timer, relay state after bus voltage failure/ recovery/ETS download, object value of the Switch object after voltage recovery, status feedback for each channel

#### Heating actuator functions

PWM cycle time for continuous, 1 bit/1 byte control telegram, Valve protection, Safety, Locking, Forced, Cyclic surveillance, Operation as NC/NO, Valve position after bus voltage failure or recovery, Contact response value when contact is opened or closed

Power supply: KNX Bus

Rated current: 9 mA, maximum 20 mA/24 V KNX power consumption: < 840 mW Nominal voltage: AC 250 V, 50/60 Hz

#### Nominal power for each contact:

AC1 10 A operation (cos  $\varphi$  = 0.8) accord. with IEC 60947-4-1 AC3 6 A operation (cos  $\varphi$  = 0.45) accord. with IEC 60947-4-1

Incandescent lamp: 2500 W Fluorescent lamp: 2500 W

Electronic transformer for extra low voltage lamps (e.g. halogen lamps): 1100 W Iron core transformer for extra low voltage lamps (e.g. halogen lamps): 900 W

**LED lamp:** 300 W,  $\cos \varphi \ge 0.6$ Capacitive loads: 10 AX, 140 µF **Motors:** 1500 VA,  $\cos \phi \ge 0.6$ 

Minimum switching current: 100 mA/12 V AC Connection KNX: Bus connection terminal

Connection port mains: screw terminal blocks, 2x 6-gang

#### Relay data

Switching frequency at rated load: Maximum 60 operation/min

Mechanical service life: >1x106 Inrush current: 320 A/2 ms Protection type: IP20 Protection class: II

Insulation category: Overvoltage category III, pollution degree 2

**Environmental conditions** 

Operating temperature: -5...+45 °C Storage temperature: -25 ...+55 °C Transport temperature: -25 ...+70°C Maximum humidity: 93 %, no condensation

Installation height: As high as 2000 m above sea level

Dimensions (WxHxD): 72x90x64 mm

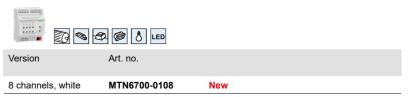
Contents: With bus connecting terminal and cable cover.

## **Hybrid Actuators**



LSB02779 / 11.2023

#### SpaceLogic KNX Hybrid Switch Actuator REG-K/8x250/10 with manual mode



#### For the Chinese market.

bus connection terminal.

For independent switching of 8 loads or for controlling up to 4 blinds/roller shutters, 2 fan coils with 3 levels, four 2-pipe valve controls or two 4-pipe valve control. All functions are freely configurable and can be operated manually with a switch on the device. A green LED indicates readiness for operation after the application has been loaded. For mounting on DIN rails TH35 according to EN61715. The bus connection is made via a

General KNX software functions: Live signal, enabling safety priority function, central control of switching/curtains function, sending delay after bus voltage recovery

#### Switching actuator functions

Preset, Logic, Scene, Threshold, Safety, Forced, Locking, Central, Time function for each channel including delay, flashing and staircase timer, relay state after bus voltage failure/ recovery/ETS download, object value of the Switch object after voltage recovery, status feedback for each channel

#### Heating actuator functions

PWM cycle time for continuous, 1 bit/1 byte control telegram, Valve protection, Safety, Locking, Forced, Cyclic surveillance, Operation as NC/NO, Valve position after bus voltage failure or recovery, Contact response value when contact is opened or closed

Power supply: KNX Bus

Rated current: 10 mA max. 22 mA/24 V KNX power consumption: < 840 mW Nominal voltage: AC 250 V, 50/60 Hz

#### Nominal power for each contact:

AC1 10 Å operation (cos  $\varphi$  = 0.8) accord. with IEC 60947-4-1 AC3 6 A operation (cos  $\varphi$  = 0.45) accord. with IEC 60947-4-1

Incandescent lamp: 2500 W Fluorescent lamp: 2500 W

Electronic transformer for extra low voltage lamps (e.g. halogen lamps): 1100 W Iron core transformer for extra low voltage lamps (e.g. halogen lamps): 900 W

**LED lamp:** 250 W,  $\cos \phi \ge 0.6$ Capacitive loads: 10 AX, 140 µF **Motors:** 1500 VA,  $\cos \varphi \ge 0.6$ 

Minimum switching current: 100 mA/12 V AC

Connection KNX: Bus connection terminal

Connection port mains: screw terminal blocks, 8 channels: 3x 6-gang

#### Relay data

Switching frequency at rated load: Maximum 60 operation/min

Mechanical service life: >1x106 Inrush current: 192 A/1.2 ms Protection type: IP20 Protection class: II

Insulation category: Overvoltage category III, pollution degree 2

**Environmental conditions** Operating temperature: -5...+45 °C Storage temperature: -25 ...+55 °C Transport temperature: -25 ...+70°C Maximum humidity: 93 %, no condensation

Installation height: As high as 2000 m above sea level

Dimensions (WxHxD): 72x90x64 mm

## **Hybrid Actuators**

# 00000000 00000000 00000000 . . . . . . . . 00000000

#### SpaceLogic KNX Hybrid Switch Actuator REG-K/16x250/10 with manual mode



#### For the Chinese market.

For independent switching of 16 loads or for controlling up to 8 blinds/roller shutters, 4 fan coils with 3 levels, eight 2-pipe valve controls or four 4-pipe valve control. All functions are freely configurable and can be operated manually with a switch on the device. A green LED indicates readiness for operation after the application has been loaded. For mounting on DIN rails TH35 according to EN61715. The bus connection is made via a bus connection terminal.

General KNX software functions: Live signal, enabling safety priority function, central control of switching/curtains function, sending delay after bus voltage recovery

#### Switching actuator functions

Preset, Logic, Scene, Threshold, Safety, Forced, Locking, Central, Time function for each channel including delay, flashing and staircase timer, relay state after bus voltage failure/ recovery/ETS download, object value of the Switch object after voltage recovery, status feedback for each channel

#### Heating actuator functions

PWM cycle time for continuous, 1 bit/1 byte control telegram, Valve protection, Safety, Locking, Forced, Cyclic surveillance, Operation as NC/NO, Valve position after bus voltage failure or recovery, Contact response value when contact is opened or closed

Power supply: KNX Bus

Rated current: 10 mA max. 26 mA/24 V KNX power consumption: < 840 mW Nominal voltage: AC 250 V, 50/60 Hz

Nominal power for each contact: AC1 10 Å operation (cos  $\varphi$  = 0.8) accord. with IEC 60947-4-1

AC3 6 A operation (cos  $\varphi$  = 0.45) accord. with IEC 60947-4-1

Incandescent lamp: 2500 W

Fluorescent lamp: 2500 W

Electronic transformer for extra low voltage lamps (e.g. halogen lamps): 1100 W Iron core transformer for extra low voltage lamps (e.g. halogen lamps): 900 W

**LED lamp:** 300 W,  $\cos \phi \ge 0.6$ Capacitive loads: 10 AX, 140 µF **Motors:** 1500 VA,  $\cos \phi \ge 0.6$ 

Minimum switching current: 100 mA/12 V AC Connection KNX: Bus connection terminal

Connection port mains: screw terminal blocks, 4x 8-gang

Relay data

Switching frequency at rated load: Maximum 60 operation/min

Mechanical service life: >1x106 Inrush current: 320 A/2 ms Protection type: IP20 Protection class: II

Insulation category: Overvoltage category III, pollution degree 2

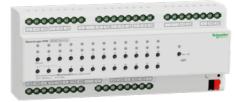
**Environmental conditions** Operating temperature: -5...+45 °C Storage temperature: -25 ...+55 °C Transport temperature: -25 ...+70°C

Maximum humidity: 93 %, no condensation Installation height: As high as 2000 m above sea level

Dimensions (WxHxD): 216x90x64 mm

Contents: With bus connecting terminal and cable cover.

## **Hybrid Actuators**



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#### SpaceLogic KNX Hybrid Switch Actuator REG-K/24x250/10 with manual mode



#### For the Chinese market

For independent switching of 24 loads or for controlling up to 12 blinds/roller shutters, 6 fan coils with 3 levels, twelve 2-pipe valve controls or six 4-pipe valve control. All functions are freely configurable and can be operated manually with a switch on the device. A green LED indicates readiness for operation after the application has been loaded For mounting on DIN rails TH35 according to EN61715. The bus connection is made via a bus connection terminal.

General KNX software functions: Live signal, enabling safety priority function, central control of switching/curtains function, sending delay after bus voltage recovery

#### Switching actuator functions

Preset, Logic, Scene, Threshold, Safety, Forced, Locking, Central, Time function for each channel including delay, flashing and staircase timer, relay state after bus voltage failure/ recovery/ETS download, object value of the Switch object after voltage recovery, status feedback for each channel

#### **Heating actuator functions**

PWM cycle time for continuous, 1 bit/1 byte control telegram, Valve protection, Safety, Locking, Forced, Cyclic surveillance, Operation as NC/NO, Valve position after bus voltage failure or recovery, Contact response value when contact is opened or closed

Power supply: KNX Bus

Rated current: 12 mA max. 28 mA/24 V KNX power consumption: < 840 mW Nominal voltage: AC 250 V, 50/60 Hz

#### Nominal power for each contact:

AC1 10 Å operation (cos  $\varphi$  = 0.8) accord. with IEC 60947-4-1 AC3 6 A operation (cos  $\varphi$  = 0.45) accord. with IEC 60947-4-1

Incandescent lamp: 2500 W

Fluorescent lamp: 2500 W

Electronic transformer for extra low voltage lamps (e.g. halogen lamps): 1100 W Iron core transformer for extra low voltage lamps (e.g. halogen lamps): 900 W

**LED lamp:** 300 W,  $\cos \varphi \ge 0.6$ Capacitive loads: 10 AX, 140 µF **Motors:** 1500 VA,  $\cos \varphi \ge 0.6$ 

Minimum switching current: 100 mA/12 V AC Connection KNX: Bus connection terminal

Connection port mains: screw terminal blocks, 5x 8-gang

#### Relay data

Switching frequency at rated load: Maximum 60 operation/min

Mechanical service life: >1x106 Inrush current: 320 A/2 ms Protection type: IP20 Protection class: II

Insulation category: Overvoltage category III, pollution degree 2

**Environmental conditions** 

Operating temperature: -5...+45 °C Storage temperature: -25 ...+55 °C Transport temperature: -25 ...+70°C Maximum humidity: 93 %, no condensation

Installation height: As high as 2000 m above sea level

Dimensions (WxHxD): 216x90x64 mm

## **Hybrid Actuators**

# 00000000 S. S. S. S.

#### SpaceLogic KNX Switch Actuator REG-K/4x250/20 with manual mode



#### For the Chinese market.

The actuator is used for switching 4 loads, or can be used as a 4-channel heating acutator for valves (without heating controller)

A green LED indicates readiness for operation after the application has been loaded. For mounting on DIN rails TH35 according to EN61715. The bus connection is made via a

General KNX software functions: Live signal, enabling safety priority function, central control of switching/curtains function, sending delay after bus voltage recovery

#### Switching actuator functions:

Preset, Logic, Scene, Threshold, Safety, Forced, Locking, Central, Time function for each channel including delay, flashing and staircase timer, relay state after bus voltage failure/ recovery/ETS download, object value of the Switch object after voltage recovery, status feedback for each channel

#### Heating actuator functions

PWM cycle time for continuous, 1 bit/1 byte control telegram, Valve protection, Safety, Locking, Forced, Cyclic surveillance, Operation as NC/NO, Valve position after bus voltage failure or recovery, Contact response value when contact is opened or closed

Power supply: KNX Bus

Rated current: 6.5 mA, max. 19 mA/24 V KNX power consumption: < 600 mW Nominal voltage: AC 250 V, 50/60 Hz

#### Nominal power for each contact:

AC1 20 A operation (cos  $\varphi$  = 0.8) accord. with IEC 60947-4-1 AC3 16 A operation (cos  $\phi$  = 0.45) accord. with IEC 60947-4-1

Incandescent lamp: 4000 W

Fluorescent lamp: 4000 W

Electronic transformer for extra low voltage lamps (e.g. halogen lamps): 3000 W Iron core transformer for extra low voltage lamps (e.g. halogen lamps): 2200 W

**LED lamp:** 750 W,  $\cos \varphi \ge 0.6$ Capacitive loads: 20 AX, 200 µF **Motors:** 4000 VA,  $\cos \phi \ge 0.6$ 

Minimum switching current: 100 mA/12 V AC Connection port KNX: Bus connection terminal

Connection port Mains: Screw terminal blocks, 1x8-gang

Switching frequency at rated load: for one channel: 60 operations/min

for all channels: 30 operations/m Mechanical service life: >1x106 Inrush current: 500 A/2 ms Protection type: IP20 Protection class: II

Insulation category: Overvoltage category III, pollution degree 2

**Environmental conditions** Operating temperature: -5...+45 °C

Storage temperature: -25 ...+55 °C Transport temperature: -25 ...+70°C Maximum humidity: 93 %, no condensation

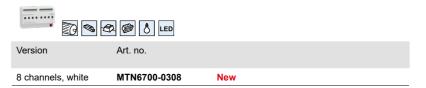
Installation height: As high as 2000 m above sea level Product dimensions (WxHxD): 4 channels: 72 x 90 x 64 mm Contents: With bus connecting terminal and cable cover

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## **Hybrid Actuators**

#### SpaceLogic KNX Switch Actuator REG-K/8x250/20 with manual mode



#### For the Chinese market.

The actuator is used for switching 8 loads, or can be used as a 8-channel heating acutator for valves (without heating controller).

A green LED indicates readiness for operation after the application has been loaded For mounting on DIN rails TH35 according to EN61715. The bus connection is made via a

General KNX software functions: Live signal, enabling safety priority function, central control of switching/curtains function, sending delay after bus voltage recovery

#### Switching actuator functions:

Preset, Logic, Scene, Threshold, Safety, Forced, Locking, Central, Time function for each channel including delay, flashing and staircase timer, relay state after bus voltage failure/ recovery/ETS download, object value of the Switch object after voltage recovery, status feedback for each channel

#### Heating actuator functions

PWM cycle time for continuous, 1 bit/1 byte control telegram, Valve protection, Safety, Locking, Forced, Cyclic surveillance, Operation as NC/NO, Valve position after bus voltage failure or recovery, Contact response value when contact is opened or closed

Power supply: KNX Bus

Rated current: 6.5 mA, max. 19 mA/24 V KNX power consumption: < 600 mW Nominal voltage: AC 250 V, 50/60 Hz

#### Nominal power for each contact:

AC1 20 A operation (cos  $\varphi$  = 0.8) accord. with IEC 60947-4-1 AC3 16 A operation ( $\cos \varphi = 0.45$ ) accord. with IEC 60947-4-1

Incandescent lamp: 4000 W

Fluorescent lamp: 4000 W

Electronic transformer for extra low voltage lamps (e.g. halogen lamps): 3000 W Iron core transformer for extra low voltage lamps (e.g. halogen lamps): 2200 W **LED lamp:** 750 W,  $\cos \varphi \ge 0.6$ 

Capacitive loads: 20 AX, 200 µF **Motors:** 4000 VA,  $\cos \phi \ge 0.6$ 

Minimum switching current: 100 mA/12 V AC Connection port KNX: Bus connection terminal

Connection port Mains: Screw terminal blocks, 2x8-gang

Switching frequency at rated load: for one channel: 60 operations/min

for all channels: 8 channels 20 operations/mir

Mechanical service life: >1x106 Inrush current: 500 A/2 ms Protection type: IP20 Protection class: II

Insulation category: Overvoltage category III, pollution degree 2

**Environmental conditions** Operating temperature: -5...+45 °C Storage temperature: -25 ...+55 °C Transport temperature: -25 ...+70°C

Maximum humidity: 93 %, no condensation Installation height: As high as 2000 m above sea level Product dimensions (WxHxD): 8 channels: 144 x 90 x 64 mm Contents: With bus connecting terminal and cable cover

## **Hybrid Actuators**



#### SpaceLogic KNX Switch Actuator REG-K/12x250/20 with manual mode



#### For the Chinese market.

The actuator is used for switching 12 loads, or can be used as a 12-channel heating acutator for valves (without heating controller).

A green LED indicates readiness for operation after the application has been loaded. For mounting on DIN rails TH35 according to EN61715. The bus connection is made via a bus connection terminal.

**General KNX software functions:** Live signal, enabling safety priority function, central control of switching/curtains function, sending delay after bus voltage recovery

#### Switching actuator functions:

Preset, Logic, Scene, Threshold, Safety, Forced, Locking, Central, Time function for each channel including delay, flashing and staircase timer, relay state after bus voltage failure/recovery/ETS download, object value of the Switch object after voltage recovery, status feedback for each channel

#### Heating actuator functions

PWM cycle time for continuous, 1 bit/1 byte control telegram, Valve protection, Safety, Locking, Forced, Cyclic surveillance, Operation as NC/NO, Valve position after bus voltage failure or recovery, Contact response value when contact is opened or closed

Power supply: KNX Bus

Rated current: 6.5 mA, max. 19 mA/24 V KNX power consumption: < 600 mW Nominal voltage: AC 250 V, 50/60 Hz

#### Nominal power for each contact:

AC1 20 A operation (cos  $\phi$  = 0.8) accord. with IEC 60947-4-1 AC3 16 A operation (cos  $\phi$  = 0.45) accord. with IEC 60947-4-1

Incandescent lamp: 4000 W

Fluorescent lamp: 4000 W

Electronic transformer for extra low voltage lamps (e.g. halogen lamps): 3000 W Iron core transformer for extra low voltage lamps (e.g. halogen lamps): 2200 W

LED lamp: 750 W,  $\cos \phi \ge 0.6$  Capacitive loads: 20 AX, 200  $\mu F$  Motors: 4000 VA,  $\cos \phi \ge 0.6$ 

Minimum switching current: 100 mA/12 V AC Connection port KNX: Bus connection terminal

Connection port Mains: Screw terminal blocks, 3x8-gang

#### Relay data

Switching frequency at rated load: for one channel: 60 operations/min

for all channels: 12 operations/min Mechanical service life: >1x10<sup>s</sup> Inrush current: 500 A/2 ms Protection type: IP20 Protection class: II

Insulation category: Overvoltage category III, pollution degree 2

Environmental conditions

Operating temperature: -5...+45 °C Storage temperature: -25 ...+55 °C Transport temperature: -25 ...+70°C Maximum humidity: 93 %, no condensation

Installation height: As high as 2000 m above sea level Product dimensions (WxHxD):12 channels 216 x 90 x 64 mm Contents: With bus connecting terminal and cable cover.

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**Dimming Actuators Overview** 

priority function

priority function

## **Dimming Actuators Overview**

#### LL REG-K/4x230/250 W MTN6710-0102 MTN6810-0102 MTN6710-0002 MTN6710-0004 MTN649315 MTN649350 MTN649310 Article number **Number of channels** 2 2 2 4 4 1 1 Device width 4 modules 4 modules 4 modules 8 modules 6 modules 4 modules 4 modules Manual operation push-buttons Connecting terminal (consumer load) Screw terminals Screw terminals Plug-in screw terminals AC 110-230 V, 50/60 Hz; Nominal voltage 0.22-4.3 A AC 110 - 130 V AC 110 - 130 V AC 110 - 240 V AC 110 - 240 V 110 V, 50 Hz: 24-480 VA AC 220-230 V, 50/60 Hz AC 220-230 V, 50/60 Hz AC 220 - 230 V AC 220 - 230 V 230V, 50 Hz: 50-1000 VA 50/60 Hz 50/60 Hz 50/60 Hz 50/60 Hz 110 V, 60 Hz: 24-400 VA 230V, 60 Hz: 50-850 VA Halogen load at 230 V ■ Configuration of 4 channels 4 x 250 W/VA 4 x 150 W/VA ■ Configuration of 3 channels 1 x 350 W/VA, 2 x 250 W/VA 1x300 W/VA, 2x150 W/VA ■ Configuration of 2 channels 2x300 W/VA (230V) 2x 350 W 2x 350 W 2x350 W/VA (230V) 2x300 W/VA 2x150 W/VA (110V) 1x400 W/VA (230V), ■ Configuration of 1 channel 1x 350 W 1x 350 W 1x350 W/VA (230V) 1x300 W/VA 1x500 W/VA 1x1000 W/VA 1x200 W/VA (110V) Minimum resistive load 4 W 4 W 25 W 25 W 25 W Minimum resistive-inductive load 25 VA 50 VA 50 VA Minimum resistive-capacitive load 4 W 4 W 50 VA 50 VA 50 VA Automatic load detection / leading edge (RL-LED, ESL, CFL) / / / / **I**/— / — **I**/— Connection of different Phases Relay for load separation \_ Input for extension unit operation, lockable AC 230 V, 50/60 Hz, for AC 230 V, 50/60 Hz, for AC 110-230 V. 50/60 Hz. (switching, staircase lighting function) mechanical push-buttons mechanical push-buttons for mechanical push-buttons Software Manual operation enable/disable via bus **Dimming function** / ■ Minimum dimming value / Maximum dimming value ■ Starting behav. / Memory function / 50% brightness (ESL/CFL) / / / / / / / / / / / -/ / ■ Dimming object switches channel ■ Value object switches channel ■ Same dimming time at central function and scenes Delay times for ON and OFF ■ Base dimming curve with 3 threholds ■ Dimming time reduction via object ■ 4 preconfigured dimming sets for the dimming time reduction\* Staircase lighting function with/without manual OFF Retriggerable The software functions are provided by the master Not retriggerable device ■ Time addable Prewarn Scenes (1 byte) 8 8 8 8 8 Central function Disable function Disable function Disable function Disable function Disable function ■ Disable function **Higher priority function** Logic operation or priority function priority function priority function

priority function

<sup>\*4</sup> 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.

# Dimming Actuators Overview

## **Dimming Actuators Overview**

	SpaceLogic KNX Universal Dimming Master	SpaceLogic KNX Universal Dimming Extension	KNX Universal dimming actuator LL REG-K/2x230/300 W	SpaceLogic KNX Universal dimming actuator LL REG-K/4x230/250 W	KNX Universal dimming actuator REG-K/4x230/150 W	KNX Universal dimming actuator REG-K/230/500 W	KNX Universal dimming actuator REG-K/230/1000 W
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Article number	MTN6710-0102	MTN6810-0102	MTN6710-0002	MTN6710-0004	MTN649315	MTN649350	MTN649310
Logic operation ■ AND, OR ■ Switch object has an inverted impact to the logic operation	:		<b>.</b>	•	:	•	=
Disable function ■ Behaviour of locking after bus voltage recovery ■ Behavior at the start/end of the locking		The software functions are provided by the master device			:		
Behaviour of  main voltage recovery bus voltage recovery download bus voltage failure	- -				į		-
Status messages Switch Brightness value Error	ŧ				i		-

#### **Dimming actuators**



#### SpaceLogic KNX Universal Dimming Master





Version

Art. no.

#### MTN6710-0102

Dimming actuator with 2 channels for switching and dimming dimmable LED lamps, incandescent lamps, HV halogen lamps, LV halogen lamps using dimmable wound transformers or electronic transformers or dimmable compact fluorescent lamps.

#### (leading and trailing-edge phases)

The Master automatically recognises the connected load. This happens in the background when switching on. Combinations of ohmic and inductive, or ohmic and capacitive loads can also be connected. Combinations of inductive and capacitive loads must not be connected. No

The number of dimming channels can be increased by connecting SpaceLogic KNX Universal Dimming Extensions. By connecting a SpaceLogic KNX Switch/Blind Extension, the Master's channels can be increased with Switch/Blind channels. A maximum of 2 Extensions can be connected to the Master. The Master controls the Extensions, their power supply and com-

With screw terminals, short-circuit, open circuit and excess temperature protection with soft start lamp start. Different phases can be connected

All dimming outputs can be operated manually using push-buttons (On/Off, Dimm UP/Down, LED mode/Automode. One/Two 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.

General KNX software functions: Energy saving, device safety, device health, manual operation, PIN code for firmware update

Dimmer actuator functions: Dimming operation by KNX, dimming operation by manual switch, enable/disable manual mode by bus, automatic dimming operating mode or special leading edge phase for RL LED mode, various dimming curves and dimming rates, same dimming time, minimum/maximum dimming value, starting behaviour, 50% brightness when starting ESL/CFL lamp, dimming/value object switches channel, ON/OFF delay, staircase lighting function (with/without manual OFF function, non-/retriggerable, prewarning function), scenes (up to 16 internally stored brightness values can be retrieved), priority control, disable function (behaviour of locking), status feedback (switching state, brightness value, fault), behaviour on

Switch/Blind actuator functions: same as SpaceLogic KNX Switch/Blind Master; only activated when a SpaceLogic KNX Switch/Blind Extension is connected

Supply voltage: KNX bus, approx. 7.5 mA (Master), approx. 10 mA (Master + 1 Extension), approx. 12.5 mA (Master + 2 Extensions)

Dimmer type: 3-wire, RC mode, RL mode, RL LED mode

Power dissipation: < 6 W

**Dimmer Outputs** 

Channels: 2 (different phases possible) Nominal voltage: AC 110 - 240 V, 50/60 Hz

Nominal power:

220-240 V: Incandescent, HV, electronic/wounded transformators: 2x 350 W/VA 220-240 V: LED lamp in RC mode: 2x 200 W, max. 1.3 A

220-240 V: LED lamp in RL mode: 2x 60 W, max. 0.5 A

110-127 V: Incandescent, HV, electronic/wounded transformators: 2x 200 W/VA

110-127 V: LED lamp in RC mode: 2x 135 W, max. 1.5 A 110-127 V: LED lamp in RL mode: 2x 54 W, max. 0.6 A

Device width: 4 modules = approx. 72 mm

Accessories: SpaceLogic KNX Universal Dimming Extension MTN6810-0102, SpaceLogic

KNX Switch/Blind Extension MTN6805-0008 Contents: With bus connecting terminal

## **Dimming Actuators/Control Units**



LSB02779 / 11.2023

#### SpaceLogic KNX Universal Dimming Extension







Version

Art. no.

#### MTN6810-0102

The SpaceLogic KNX Universal Dimming Extension is a dimming actuator that extends the channels of a SpaceLogic KNX Universal Dimming Master

For independent control of up to 2 dimmable loads such as dimmable LED lamps, incandescent lamps, HV halogen lamps, LV halogen lamps using dimmable wound transformers or electronic transformers or dimmable compact fluorescent lamps.

#### (leading and trailing-edge phases)

The ETS programming is carried out in the ETS application of the Master. The Master controls the function of the Extension, the power supply and and communication to the KNX bus. Channel status is displayed via LEDs on the Master's keypad.

With screw terminals, short-circuit, open circuit and excess temperature protection with soft start lamp start. Different phases can be connected

All outputs can be operated manually using push-buttons of the Master (On/Off, Dimm UP/ Down, LED mode/Automode, One/Two button operation).

A green LED indicates readiness for operation, a red manual operation LED shows whether the Extension is controlled manually. For installation on DIN rails TH35 according to EN 60715. The connction to the Master or another Extension is made either with a Module Link or with a Cable Link.

Dimmer actuator functions: Dimming operation by KNX, dimming operation by manual switch, enable/disable manual mode by bus, automatic dimming operating mode or special leading edge phase for RL LED mode, various dimming curves and dimming rates, same dimming time, minimum/maximum dimming value, starting behaviour, 50% brightness when starting ESL/CFL lamp, dimming/value object switches channel, ON/OFF delay, staircase lighting function (with/without manual OFF function, non-/retriggerable, prewarning function), scenes (up to 16 internally stored brightness values can be retrieved), priority control, disable function (behaviour of locking), status feedback (switching state, brightness value, fault), behaviour on

Supply voltage: via link interface

Dimmer type: 3-wire, RC mode, RL mode, RL LED mode

Power dissipation: < 6 W

**Dimmer Outputs** 

Channels: 2 (different phases possible) Nominal voltage: AC 110 - 240 V, 50/60 Hz

Nominal power:

220-240 V: Incandescent, HV, electronic/wounded transformators: 2x 350 W/VA

220-240 V: LED lamp in RC mode: 2x 200 W, max. 1.3 A 220-240 V: LED lamp in RL mode: 2x 60 W, max. 0.5 A

110-127 V: Incandescent, HV, electronic/wounded transformators: 2x 200 W/VA

110-127 V: LED lamp in RC mode: 2x 135 W, max. 1.5 A

110-127 V: LED lamp in RL mode: 2x 54 W, max. 0.6 A

Device width: 4 modules = approx. 72 mm

**To be completed with:** SpaceLogic KNX Universal Dimming Master MTN6710-0102 Accessories: SpaceLogic KNX Cable Link S MTN6941-0001, SpaceLogic KNX Cable Link L

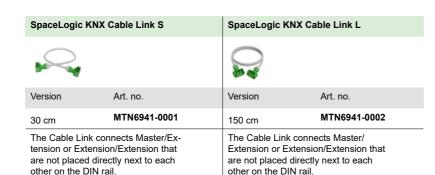
MTN6941-0002

Contents: With Module Link

## **Dimming Actuators/Control Units**











#### SpaceLogic KNX Module Link



Length: 30 cm

Version	Art. no.
	MTN6940-0000

Lenath: 150 cm

The Module Link connects Master/Extension or Extension/Extension that are placed directly next to each other on the DIN rail.

## **Dimming Actuators/Control Units**



LSB02779 / 11.2023

#### KNX universal dimming actuator LL REG-K/2x230/300 W



MTN6710-0002

Version Art. no.

LED/ESL/CFL dimmer

light grey

For switching and dimming **dimmable LED lamps**, incandescent lamps, HV halogen lamps, LV halogen lamps using dimmable wound transformers or electronic transformers or dimmable compact fluorescent lamps.

(leading and trailing-edge phases)

With integral bus coupler, screw terminals, short-circuit, open circuit and excess temperature protection with soft start lamp start.

Different phases can be connected.

The dimmer actuator automatically recognises the connected load. This happens in the background when switching on. Combinations of ohmic and inductive, or ohmic and capacitive loads can also be connected. Combinations of inductive and capacitive loads must not be connected. No flickering of LEDs in switched-off state.

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

KNX software functions: Dimming operation by KNX, dimming and emergency operation by manual switch, enable/block manual mode by bus, automatic dimming operating mode or leading edge phase for certain LED/ESL/CFL lamps, load separation possible in OFF state, various dimming curves and dimming rates, same dimming time, minimum/maximum dimming value, starting behaviour, memory function, 50% brightness when starting ESL/CFL lamp, dimming/value object switches channel, ON/OFF delay, staircase lighting function (with/without manual OFF function, non-/retriggerable, time accumulating, warning function), scenes (up to 8 internally stored brightness values can be retrieved), central function, logic operations (AND/OR) or priority control, disable function (behaviour of locking), status feedback (switching state, brightness value, fault), behaviour on mains voltage recovery/bus voltage recovery/download.

Nominal voltage: AC 110 - 130 V / AC 220 - 230 V, 50/60 Hz

Channels: 2 (different phases possible)

Nominal power: 2 x 300 W/VA (230 V), 2 x 150 W/VA (110 V)

1 channel: 1 x 400 W/VA (230 V), 1 x 200 W/VA (110 V)

Minimum load/channel: 4 W (ohmic)

4 W (ohmic-capacitive) 25 VA (ohmic-inductive)

Device width: 4 modules = approx. 72 mm

Note: Information about the "Dimming LED lamps" can be obtained on the Internet at

"Schneider-Electric dimmer test". http://schneider-electric.dimmer-test.com



#### SpaceLogic KNX universal dimming actuator LL REG-K/4x230/250 W



MTN6710-0004

Version

light grey

LED/ESL/CFL dimmer

For switching and dimming dimmable LED lamps, incandescent lamps, HV halogen lamps, LV halogen lamps using dimmable wound transformers or electronic transformers or dimmable

#### (leading and trailing-edge phases)

With integral bus coupler, screw terminals, short-circuit, open circuit and excess temperature protection with soft start lamp start. Different phases can be connected

The dimmer actuator automatically recognises the connected load. This happens in the background when switching on. Combinations of ohmic and inductive, or ohmic and capacitive loads can also be connected. Combinations of inductive and capacitive loads must not be connected. No flickering of LEDs in switched-off state.

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

KNX software functions: Dimming operation by KNX, dimming and emergency operation by manual switch, enable/block manual mode by bus, automatic dimming operating mode or leading edge phase for certain LED/ESL/CFL lamps, load separation possible in OFF state, various dimming curves and dimming rates, same dimming time, minimum/maximum dimming value, starting behaviour, memory function, 50% brightness when starting ESL/CFL lamp, dimming/value object switches channel, ON/OFF delay, staircase lighting function (with/without manual OFF function, non-/retriggerable, time accumulating, warning function), scenes (up to 8 internally stored brightness values can be retrieved), central function, logic operations (AND/ OR) or priority control, disable function (behaviour of locking), status feedback (switching state, brightness value, fault), behaviour on mains voltage recovery/bus voltage recovery/

Nominal voltage: AC 110 - 130 V / AC 220 - 230 V, 50/60 Hz

Channels: 4 (different phases possible)

Nominal power: 4 x 250 W/VA (230 V), 4 x 125 W/VA (110 V)

3 channels: 1 x 350 W/VA and 2 x 250 W/VA (230 V), 1 x 175 W/VA and 2 x 125 W/VA (110 V) 2 channels: 2 x 350 W/VA (230 V), 2 x 175 W/VA (110 V)

Minimum load/channel: 4 W (ohmic)

4 W (ohmic-capacitive) 25 VA (ohmic-inductive)

Device width: 8 modules = approx. 144 mm

Note: Information about the "Dimming LED lamps" can be obtained on the Internet at

"Schneider-Electric dimmer test". http://schneider-electric.dimmer-test.com

Contents: With bus connecting terminal and cable cover.

## **Dimming Actuators/Control Units**





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

Art. no.



MTN649315 light grey

AC 230 V, 50-60 Hz

Version

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.

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 chan-

Device width: 6 modules = approx. 105 mm

Extension unit operation: Extension TELE insert MTN573998 Contents: With bus connecting terminal and cable cover.

#### Universal dimming actuator REG-K/230/500 W



Version Art. no.

MTN649350 light grey

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

KNX software functions: Dimming operation via KNX, extension units and on the device, different dimming curves and dimming speeds, the same dimming time, memory function, ON/OFF delay, staircase time function with/without manual OFF function, scenes (up to eight stored brightness values can be retrieved), central function, logic operation or priority control, blocking function, status feedback.

Nominal voltage: AC 220 - 230 V, 50/60 Hz Nominal power/channel: max. 500 W/VA

25 W minimum load (ohmic)

50 VA minimum load (ohmic/inductive/capacitive)

Input (extension unit operation): AC 230 V, 50/60 Hz (same phase as the dimming channel)

Device width: 4 modules = approx. 72 mm

Extension unit operation: Extension TELE insert MTN573998 Contents: With bus connecting terminal and cable cover



#### Universal dimming actuator REG-K/230/1000 W

Art. no



Version

MTN649310 light grey

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.

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 ±10%

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

Mains frequency: 50/60 Hz ±2%

Nominal load

Ohmic loads: AC 110 V /50 Hz, 14-480 W

AC 230 V /50 Hz, 30-1000 W AC 110 V /60 Hz, 14-400 W AC 230 V /60 Hz, 30-850 W

Inductive/capacitive loads: AC 110 V /50 Hz, 24-480 VA

AC 230 V /50 Hz, 50-1000 VA AC 110 V /60 Hz, 24-400 VA AC 230 V /60 Hz, 50-850 VA

Input (extension unit operation): AC 110-230 V, 50/60 Hz (same phase as the dimming

channel)

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

Extension unit operation: Extension TELE insert MTN573998 Contents: With bus connecting terminal and cable cover

# Dimming Actuators/Control Units



LSB02779 / 11.2023

#### SpaceLogic KNX Flush Mounted Universal Dimming Acutator 1g with 3 binary inputs



#### MTN6003-0013

1-gang universal dimming actuator with three inputs for installation in a size 60 switch box. Floating contacts can be connected to the three inputs. Optionally, an NTC temperature sensor can be connected to the third input.

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 10 m.

#### KNX Secure compatible

#### 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. 64 Scene function. 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. Temperature, Brightness, Color temperature 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.

#### Logic module:

Logic operation, Converter, Blocking element, Comparator, Limit value

Nominal voltage: AC 230 V, 50/60 Hz

Connected load at 25 °C

Incandescent/Halogen lamps: AC 230 V, 20 to 230 W

LV halogen lamps: 20 to 210 VA, wounded transformer / 20 to 210 W, electronic transformer LED leading edge phase control: AC 230 V, 20 to 210 W/VA

LED trailing edge phase control: AC 230 V, 20 to 230 W

Connected load at 45 °C

Incandescent/Halogen lamps: AC 230 V, 20 to 210 W

LV halogen lamps: 20 to 160 VA, wound transformer / 20 to 160 W, electronic transformer

LED leading edge phase control: AC 230 V, 20 to 160 W/VA LED trailing edge phase control: AC 230 V, 20 to 210 W

Inputs: 3

Dimensions: 48x50x28 (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 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,

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)

## Dimming Actuators/Control Units

#### Control units 1-10 V



#### SpaceLogic KNX Control unit 0-10 V REG-K/1-gang with manual mode



liaht arev

Version

Art no

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.

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

Switch contact: for switching the electronic ballasts/transformers

Nominal voltage: AC 100-240 V ±10% Operating voltage: min. AC 90 V - max. AC 265 V

Mains frequency: 50-60 Hz ±10%

Nominal current: 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 100 V, max. 1600 W, 200 µF

AC 230 V, max. 3600 W, 200  $\mu F$ 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



#### SpaceLogic KNX Control unit 0-10 V REG-K/3-gang with manual mode



Version

MTN646991 light grey For connecting devices with 0-10 V interface to KNX. With integrated bus coupler and screw

Art. no.

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

terminals (230 V) or plug-in screw terminals (0-10 V). Each individual 230 V switch output can

KNX software functions: Different dimming curves and dimming speeds, the same dimming time, memory function, ON/OFF delay, staircase time function with/without manual OFF function, scenes (up to eight stored brightness values can be retrieved), central function, logic operation or priority control, blocking function, status feedback, behaviour on bus voltage recovery.

Switch contact: for switching the electronic ballasts/transformers

Nominal voltage: AC 230 V, 50-60 Hz Nominal current: 16 A,  $\cos \varphi = 0.6$ 

be operated manually with a manual switch

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

## DALL

#### DALI gateways



LSB02779 / 11.2023

#### SpaceLogic KNX DALI Gateway Pro





Version

Art no

#### MTN6725-0101

The SpaceLogic KNX DALI Gateway Pro controls electronic ballasts with DALI interface via the KNX installation bus. The gateway is DALI 2.0 multi-master certified

The gateway supports KNX longframe communication and is compatible with KNX Security telegram/devices and can be enable in the ETS 5 software. In addition, access to the device itself (e.g. for a download) is protected by KNX Security

It supports ballasts according to EN 62386-102 ed1 (DALI1), devices according to EN 62386-102 ed2 (DALI2), as well as DALI2 motion sensors and light sensors according to EN 62386-303 and EN 62386-304.

The gateway has a DALI output which can control up to 64 ECGs. In addition, up to 8 DALI2 motion detectors or light sensors can be connected. Multi-master operation according to EN 62386-103 ed2 is permitted. The required power supply for the connected ECGs and motion sensors is provided directly from the device. Additional DALI power supplies are not required.

Per gateway the ECGs can be controlled in 16 groups. In addition to the group control the gateway also allows individual control of up to 64 ECGs.

In addition the gateway allows the operation of single battery emergency lights (EN 62386-202). Emergency lighting systems with central battery are also supported.

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 DCA software,
- the integrated Web server

#### Functions:

- Two separate user profiles with their own password for IP-webserver
- Effect module with 16 effects and a total of up to 500 commands
- Configuring: scenes, effects, service, maintenance, burn-in, operating hours
- Fast Firmware upgrade possible via IP portOperating: device, ECGs, groups and broadcast
- Colour control via KNX for broadcast and groups
- Displays: Status and error messages
- DT8-Colour control on the DALI side, up to 16 colour templates with up to 300 commands basing on a weekly timer
- DALI-scenes with brightness and colour values
- Scene number 1-64 can be flexible distributed over several devices
- Tunable white control to improve the environment for human beings. Colour control i.e. product presentation, advertising
- Possibility to lock the IP-port
- Possibility to access as User or Admin the web server
- Flexible post installation and a DCA with im- and export for DALI configuration
- Possibility to save ECG StandBy energy of DALI groups if switched OFF

KNX software functions: Switching, dimming and value object per group or ECG. Staircase timer function, status objects, delays between status feedbacks. Detailed error messages per EB and group. Test of DALI ECGs for emergency lighting with central battery or built-in battery with selectable test intervals with old or new format. Parallel broadcast triggering of all ECGs, switch-on/switch-off and colour control. 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 ECG.

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

Supply voltage: AC/DC 100-240 V, 50-60 Hz

Outputs: DALI D+, D-, typical DC 18 V, short-circuit proof, max 250 mA, basic insulation (no

Type: Multi-Master Application Controller Supply current: max. 250 mA, guaranteed 160 mA

Interfaces: KNX, RJ-45 Ethernet 100BaseT, DALI

Wire range: Supply 0.5-4 mm<sup>2</sup>, DALI: 0.4-4 mm<sup>2</sup> 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/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 ECGs (electronic ballasts / electronic control gear). The device is a Single-Master Controller according to EN 62386 ed/1 and ed/2. It is able to control DALI ECGs ed/1 and ed/2 -also mixed- but according to single-master controller it cannot support DALI-2 sensors like movement- and presence detectors, switches etc. Described features are related to Firmware V3.1.3 or higher with DCA and ETS application 7310 most earlier delivered devices can be upgraded

It supports the switching and dimming of up to 64 ECGs in 16 groups and the control up to 16 scenes. The 64 ECGs can be controlled individually or in groups. Error messages of individual ECGs 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 DCA software,
- 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. Functions:

- Two separate user profiles with their own password for IP-webserver
- Effect module with 16 effects and a total of up to 500 commands
- Configuring: scenes, effects, service, maintenance, burn-in, operating hours
- Fast Firmware upgrade possible via IP portOperating: device, ECGs, groups and broadcast
- Colour control via KNX for broadcast and groups
- Displays: Status and error messages
- DT8-Colour control on the DALI side, up to 16 colour templates with up to 300 commands basing on a weekly timer
- DALI-scenes with brightness and colour values
- Scene number 1-64 can be flexible distributed over several devices
- Tunable white control to improve the environment for human beings. Colour control i.e. product presentation, advertising
- Possibility to lock the IP-port
- Possibility to access as User or Admin the web server
- Flexible post installation and a DCA with im- and export for DALI configuration
- Possibility to save ECG StandBy energy of DALI groups if switched OFF

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: Switching, dimming and value object per group or ECG. Staircase timer function, status objects, delays between status feedbacks. Detailed error messages per EB and group. Test of DALI ECGs for emergency lighting with central battery or built-in battery with selectable test intervals with old or new format. Parallel broadcast triggering of all ECGs, switch-on/switch-off and colour control. 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 ECG.

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-

Interfaces: KNX, Ethernet RJ-45, DALI

Type: Category I control device (single master) Wire range: Supply or DALI: 1.5-2.5 mm<sup>2</sup>

Type of protection: IP 20

Device width: 4 modules = approx. 72 mm

Contents: With bus connecting terminal.

### SpaceLogic KNX



LSB02779 / 11.2023

### SpaceLogic KNX DALI Gateway Basic REG-K/1/16/64

Art. no.



DALL

Version

#### MTN6725-0003

The KNX DALI Gateway connects the KNX bus to 1 DALI output. The gateway is a category I DALI control device with an integrated DALI power supply for the ECGs. The device is a Single-Master Application Controller according to EN 62386 ed/1 and ed/2. Starting with firmware version 0.2.6 the gateway is certified according to EN 62386-101/-103 ed2 and is DALI-2.0 single master certified.

It is able to control DALI ECGs ed/1 and ed/2 -also mixed- but according to single-master controller it cannot support DALI-2 sensors like movement- and presence detectors, switches etc. It supports the switching and dimming of up to 64 ECGs in 16 groups and the control of more than 16 scenes.

Different colour commands (e.g. white tone control, RGB, XY and HSV) can be interpreted by KNX push-buttons, for example, and DALI DT8 lights can be activated accordingly. The operating hours meter logs the operating hours for the groups. Error messages from individual ECGs and groups can be transmitted via the KNX and visualised. A colour control module allows up to 16 time switch functions for brightness and colour on a weekly basis, provided that the device is connected to a time update system. The up to 16 time programmes with up to 300 commands per DALI output can be enabled or disabled using KNX objects. DALI commissioning and configuration, group allocation and scene set-up can be carried out using the ETS application and an ETS app (DCA).

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: Switching, dimming, value and colour objects per group, plus switching, value and colour objects for broadcast control. Staircase timer function with dimmed lights, also for advance warning and normal, continuous, night and panic modes. Differentiated error analysis per EB and group. Scenes with brightness and colour. Energy saving thanks to reduction in EB standby losses due to additional KNX switching actuator. The colour control module can be used to control brightnesses and colours based on a weekly time switch. (Requirement: weekday and time synchronisation) Any time interval possible, up to 90 s.

The up to 16 time programmes can be controlled using KNX objects. Operating hours can be recorded and reset by group, and transmitted by group as an alarm if a threshold value is exceeded. The firmware can be updated using an FAT32-formatted Micro-SD card.

Supply voltage: AC/DC 100-240 V, 50-60 Hz Outputs: 1x DALI D+, D-, typically 16 V DC, short-circuit proof max. 250 mA, basic insulation

Output current: max. 250 mA, min. 128 mA

Interfaces: KNX, DALI

Type: Single Master application controller. From firmware version 0.2.6 the gateway is certi-

fied according to EN 62386-101/-103 ed2 -> DALI-2 compatible

Wire range: Mains supply or DALI: 1 - 2.5 mm<sup>2</sup>

IP protection rating: IP20

Housing width: 4 HP = approx. 69 mm Contents: With bus connecting terminal.

### SpaceLogic KNX DALI Gateway Basic REG-K/2/16/64



Version

Art. no.

#### MTN6725-0004

The KNX DALI Gateway connects the KNX bus to 2 DALI outputs. The gateway is a category I DALI control device with an integrated DALI power supply for the ECGs. The device is a Single-Master Controller according to EN 62386 ed/1 and ed/2. Starting with firmware version 0.2.6 the gateway is certified according to EN 62386-101/-103 ed2 and is DALI-2.0 single master certified.

It is able to control DALI ECGs ed/1 and ed/2 -also mixed- but according to single-master controller it cannot support DALI-2 sensors like movement- and presence detectors, switches etc. For each DALI output, it supports the switching and dimming of up to 64 ECGs in 16 groups and the control of more than 16 scenes.

Different colour commands (e.g. white tone control, RGB, XY and HSV) can be interpreted by KNX push-buttons, for example, and DALI DT8 lights can be activated accordingly. The operating hours meter logs the operating hours for the groups. Error messages from

individual ECGs and groups can be transmitted via the KNX and visualised. A colour control module allows up to 16 time switch functions for brightness and colour on a weekly basis, provided that the device is connected to a time update system. The up to 16 time programmes with up to 300 commands per DALI output can be enabled or disabled using KNX objects. DALI commissioning and configuration, group allocation and scene set-up can be carried out using the ETS application and an ETS app (DCA).

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: Switching, dimming, value and colour objects per group, plus switching, value and colour objects for broadcast control. Staircase timer function with dimmed lights, also for advance warning and normal, continuous, night and panic modes. Differentiated error analysis per EB and group. Scenes with brightness and colour. Energy saving thanks to reduction in EB standby losses due to additional KNX switching actuator. The colour control module can be used to control brightnesses and colours based on a weekly time switch. (Requirement: weekday and time synchronisation) Any time interval possible, up to 90 s. The up to 16 time programmes can be controlled using KNX objects. Operating hours can be recorded and reset by group, and transmitted by group as an alarm if a threshold value is exceeded. The firmware can be updated using an FAT32-formatted Micro-SD card.

Supply voltage: AC/DC 100-240 V, 50/60 Hz

Outputs: 2x DALI D+, D-, typically 16 V DC, short-circuit proof max. 250 mA, basic insulation (no SELV)

Output current: max. 250 mA, min. 128 mA

Interfaces: KNX, DALI

Type: Single Master application controller. From firmware version 0.2.6 the gateway is certi-

fied according to EN 62386-101/-103 ed2 -> DALI-2 compatible

Wire range: Mains supply or DALI: 1.5 - 2.5 mm<sup>2</sup> IP protection rating: IP20

Housing width: 4 HP = approx. 69 mm

# **Special Acuators**

### 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

### SpaceLogic KNX Analogue actuator REG-K/4-gang

Art. no.



Version

MTN682291 light grey

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.

Auxiliary voltage: AC 24 V (+/-10 %)

Analogue outputs: 4

Current signals: 0 ... 20 mA, 4 ... 20 mA Voltage signals: 0 ... 1 V, 0.. 10 V Continuity checking: 4 ... 20 mA Outputs: DC 24 V, 100 mA (total) Device width: 4 modules = approx. 72 mm

In KNX, to be completed with: SpaceLogic KNX Power supply REG, AC 24 V/1 A

MTN663529

Contents: With bus connecting terminal and cable cover.

### SpaceLogic KNX

# **Room Temperature Control Units**

### Room temperature control unit, design-independent



### SpaceLogic KNX 4" Touch Unit





Art. no

alass

MTN6215-0410

The 4" Touch unit is a room controller designed to be the center of the smart home. Premium materials and a high-quality display with built-in sensors offer a wide range of applications.

The slim design of the product fits perfectly into the modern concept of today's smart installations and architecture. The product can be used in both residential and commercial projects. The product has a modern, seamless user interface that provides an immersive experience every time it is used, with the display waking up simply by moving closer thanks to the proxim-

The display has up to 9 screens that can display individual functions as widgets. This allows you to have different combinations of up to 6 widgets on each screen and effectively control all connected systems. You move between screens with a simple swipe, familiar from traditional

### User Interface functions:

- Different UI theme style
- Screen saver
- Orientation indicator
- Proximity function triggered by object
- Setting the backlight in normal/night mode
- Setting the appearance of the screen

#### Main functions

- Brightness dimming
- RGB dimming
- RGBW dimming
- Colour temperature dimming ■ Venetian blind position and slat
- Air conditioner control
- Room temperature control
- Ventilation control ■ Audio control

### **HVAC** controller functions:

- FCU controller: switching on/off (2-point control), switching PWM (PI control), continuous control (PI control)
- Floor heating controller
- Ventilation controller

General: Scene group function, 8 logic function channels (AND; OR, XOR, threshold comparator, format converter) each with 8 inputs

Power supply from KNX: DC 21-30 V approx. 24 V/3 mA Auxiliary Power supply: DC 21-30 V approx. 24 V/85 mA

Screen: 10 cm (3.95") LCD, 480 x 480 pixels

Measuring accuracy: ±1 °C at 25 °C IP protection rating: IP 20

Dimensions WxHxD: 86 x 86 x 32 mm

Accessories: Dismantling protection MTN6270-0000
Note: Programmable with ETS5 and higher.

# **Room Temperature Control Units**

### Room temperature control unit System M



LSB02779 / 11.2023

### KNX Multitouch Pro



Version

Art. no.

#### MTN6215-0310

### For System M.

Comfortable room controller for controlling up to 32 room functions and the room temperature. All functions are displayed on a touch screen and are called up using simple finger movements. The user chooses from 3 interface designs that can be freely assigned to the room functions. The room temperature control can be shown in 2 different designs.

With room temperature control unit, display and connection for the remote 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.

### ETS device functions:

- Switch-on behaviour of the user interface
- Proximity function: The display and the start screen only become visible when approached ■ Gesture function: The device recognises a gesture (horizontal or vertical swipe movement) and triggers a function. In this way, the light can be switched on when you enter the room,
- Cleaning mode: For a specific period of time, neither touches nor gestures are detected
- Adjusting the background lighting
- Setting the screen saver

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

#### KNX software functions:

### Control unit/push-button:

Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams, pulse edges with 2-byte telegrams, 8-bit linear regulator, scene retrieval, scene saving, signal function, fan control, operating modes, setpoint adjust-

### Functions of the room temperature control unit:

Controller type: 2-step controller, continuous-action 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
- 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 (ECO), night reduction, frost/heat

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. Signal function for the actual temperature, valve protection function

Operation: Touch display

Accessories: Dismantling protection MTN6270-0000

Remote sensor for universal room temperature control unit

with touch display MTN5775-0003

Note: Programmable with ETS4 and higher. Contents: With bus connecting terminal and supporting plate.



### Push-button 2-gang plus with room temperature control unit Art. no. Version MTN6212-0344 white, alossy MTN6212-0319 polar white, glossy MTN6212-0325 ☐ active white,

### aluminium For System M.

glossy

anthracite

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

MTN6212-0414

MTN6212-0460

### 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.

### SpaceLogic KNX



# **Room Temperature Control Units**

Pus	Push-button 4-gang plus with room temperature control unit				
Vers	sion	Art. no.			
	white, glossy	MTN6214-0344			
	polar white, glossy	MTN6214-0319			
	active white, glossy	MTN6214-0325			
	anthracite	MTN6214-0414			
	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.

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

Functions of the room temperature control unit:

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

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

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

Monitoring function for the actual temperature, valve protection function.

Scene function.

### Operation: Menu.

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

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

Contents: With bus connecting terminal and supporting plate.

Screw for protection against dismantling.

With protective hood for plaster.



### Room temperature control unit with display



Vers	sion	Art. no.	
	white, glossy	MTN6241-0344	
	polar white, glossy	MTN6241-0319	
	active white, glossy	MTN6241-0325	
	anthracite	MTN6241-0414	
	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 inter-



Vers	sion	Art. no.
	white, glossy	MTN616744
	polar white, glossy	MTN616719
	active white, glossy	MTN616725
	anthracite	MTN616814
	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 mm<sup>2</sup>)

To be completed with: KNX Room temperature control unit, flush-mounted/PI with 4-gang push-button interface

System M MTN6167.., MTN6168.



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### Room temperature control unit for properties Art. no. Version MTN6221-0344 white, alossy MTN6221-0319 polar white, glossy MTN6221-0325 ☐ active white, glossy MTN6221-0414 anthracite MTN6221-0460 aluminium

#### 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

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

operating and display elements.

- 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 Units**

### Room temperature control unit System D



# **KNX Multitouch Pro** Art no Version

For System D.

Comfortable room controller for controlling up to 32 room functions and the room temperature. All functions are displayed on a touch screen and are called up using simple finger movements. The user chooses from 3 interface designs that can be freely assigned to the room functions. The room temperature control can be shown in 2 different designs. With room temperature control unit, display and connection for the remote sensor. The room temperature control unit can be used for heating and cooling with infinitely adjust-

able KNX valve drives or to trigger switch actuators and heating actuators.

MTN6215-5910

#### ETS device functions:

- Switch-on behaviour of the user interface
- Proximity function: The display and the start screen only become visible when approached
- Gesture function: The device recognises a gesture (horizontal or vertical swipe movement) and triggers a function. In this way, the light can be switched on when you enter the room, for example.
- Cleaning mode: For a specific period of time, neither touches nor gestures are detected
- Adjusting the background lighting
- Setting the screen saver

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

### KNX software functions:

### Control unit/push-button:

Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams, pulse edges with 2-byte telegrams, 8-bit linear regulator, scene retrieval, scene saving, signal function, fan control, operating modes, setpoint adjust-

### Functions of the room temperature control unit:

Controller type: 2-step controller, continuous-action 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
- 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 (ECO), night reduction, frost/heat

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. Signal function for the actual temperature, valve protection function

Operation: Touch display

Accessories: Dismantling protection MTN6270-0000

Remote sensor for universal room temperature control unit with touch display MTN5775-0003

Fixing frame for 3-module box MTN6270-0015

D-Life frame, 1-gang, for 3-module box MTN6010-65xx

Note: Programmable with ETS4 and higher.

Contents: With bus connecting terminal and supporting plate



### 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 mm<sup>2</sup>)

To be completed with: KNX Room temperature control unit, flush-mounted/PI with 4-gang push-button interface

System M MTN6167.., MTN6168..

### Room temperature control unit Altira



### KNX Room temperature control unit with display



Version	Art. no.	
white	ALB45154	Discontinued
aluminium	ALB46154	Discontinued

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.

### SpaceLogic KNX

# **Room Temperature Control Units**

### Room temperature control unit Unica



### KNX Room temperature control unit with display



Version	Art. no.
☐ white	MGU3.534.18
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 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.

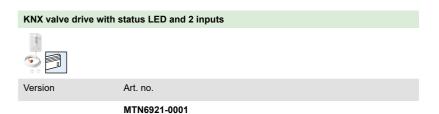
Monitoring function for the actual temperature, valve protection function. Functions of the push-buttons:

Selection of 1- 4 operating modes each push-button. Move setpoint. **Contents:** With bus connecting terminal.

# Room Temperature Control Units

### **Devices for individual room temperature control**





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).

Note: New Version (B) is available in Halogen and PVC free cable and housing.



### SpaceLogic KNX Valve Drive Controller



Version

MTN6730-0002 white

Art. no.

For actuation of electrothermal valve drives for heating or cooling ceilings. The valve drive controller has 6 electronic outputs. Up to 4 valve drives (230 V AC) or 2 valve drives (24 V AC) can be connected to each output. Both de-energized closed and de-energized opened valve

In addition, the valve drive controller contains 6 integrated room temperature controllers (RTC) which operate independently of each other. The correcting variable outputs of these RTCs can be linked internally with the valve outputs, so that temperature control and valve actuation can be performed by a single bus device only, if required. In this case, no external room temperature controller (e.g. push-button with RTC) is required.

As the valve outputs can be controlled individually, an external RTC can also be used at any

The integrated room temperature controllers can send the correcting variable telegram to the bus and thus control other heating actuators or fan coil actuators.

The outputs are either switch activated (1 bit) or PWM signal (1 byte) activated. Each output is overload-protected and short-circuit-protected

All outputs can be operated manually using push-button operation. Building site operation is

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus

KNX software functions - valve: valve activation (deenergised opened / closed) can be configured for each output, actuator evaluation as "Switching, 1-bit", "Constant, 1-byte" or "Constant 1-byte with actuator limiting value and hysteresis", status feedback, collective feedback of all valve states via 4-byte telegram, combined valve status via 1 byte, failure signal of the valve operating voltage can be configured, overload and short-circuit signal for each valve output, automatic valve rinsing, summer/winter switch-over for valve outputs, valve command value limit, forced position configurable, activation of service mode with defined valve position

KNX software functions - RTC: operating modes "Heating", "Cooling", "Heating and Cooling" each with or without additional level, configuration of the temperature setpoints as relative (derived from basic setpoint) or absolute (independent setpoint temperatures for each operating mode), PI control, PWM or switching 2-point feedback control, automatic or object-oriented switch-over between "Heating" and "Cooling", temporary or permanent setpoint shift through communication objects possible (e.g. via a controller extension), configurable step width of the setpoint shift (0.1 K / 0.5 K), calibration of the temperature values possible and measured value formation of the external sensors can be configured, separate or shared command value output in heating and cooling mode, floor temperature limit in heating mode, setpoint temperature limit in cooling mode, operating hours counter to record the switch-on times of the

Nominal voltage: AC 110-230 V, 50/60 Hz Outputs: 6, electronic AC 24 V / 230 V

Switching current: 5 ... 160 mA

Switch-on current AC 230 V: max. 1.5 A (2 s) Switch-on current AC 24 V: max. 0.3 A (2 min)

Number of valve drives: max. 4 per output (230 V drives)

max. 2 per output (24 V drives)

Power consumption KNX: max. 250 mW Device width: 4 modules = approx. 72 mm

Accessories: Thermoelectric valve drive 230 V MTN639125

Thermoelectric valve drive 24 V MTN639126

Contents: With bus connecting terminal and cable cover.

# **Room Temperature Control Units**



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### SpaceLogic KNX Fan Coil 0-10 V Controller



Version Art. no.

MTN6730-0003 white

For heating, ventilation and air conditioning control. For controlling fan coils with up to three fan stages, optionally also with 0-10 V fan control, as well as for the control of proportional 0-10 V valves. The controller supports 2-pipe and 4-pipe systems.

The controller can measure and control the room temperature itself or receives the value from the Push-Button plus with TCU and behaves like an actuator

One floating contact for window contacts or temperature sensor and one for condensate monitoring (e.g.).

Auxiliary relay for electric heating or cooling registers

Manual operation on the controller (fan speeds, switching between heating and cooling)

Adjustment of setpoint for cooling depending on outdoor temperature

Floating contact optionally for cooling or heating coil

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: Fan control:

Standard fan coil or fan coil with 0-10 V is supported. In automatic mode, the fan speeds are controlled dependently by the control value of the push-button plus with TCU. The three fan speeds and automatic mode can be switched via 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 a push-button.

#### Valve control:

Type of controller: P / PI controller

Controller mode: Heating and/or cooling with common or separate valve outputs.

Operating modes: Operating modes can be selected by object

Power supply: AC 100-240 V, 50-60 Hz

Power consumption: max. 1.7 W, stand-by <0.5 W Minimum load additional/fan relay: 12 V, 100 mA

Outputs:

Additional relay switching capacity: 16 A Fan relay switching capacity: 6 A

Fan and valves: 0-10 V, max. 10 mA 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:

Push-button 2-gang plus with room temperature control unit System M MTN6212-03.. /-04.., Push-button 4-gang plus with room temperature control unit System M MTN6214-03.. /-04... KNX Multitouch Pro System M MTN6215-03.., System D MTN6215-59.., System D MTN6216-

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### SpaceLogic KNX Fan coil actuator REG-K

Art. no.



Version

MTN645094 light grey

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.

#### 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.., Push-button 4-gang plus with room temperature control unit System M

MTN6214-03.. /-04.

# **Room Temperature Control Units**



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### SpaceLogic KNX Heating actuator REG-K/6x24/230/0.16A

Art. no.

Version

MTN6730-0001

For actuation of thermoelectric valve drives for heating or cooling ceilings. The heating actuator has 6 electronic outputs. Up to 4 valve drives can be connected to each output. The outputs are either switch activated (1 bit) or PWM signal (1 byte) activated. Each output is overload-protected and short-circuit-protected.

All outputs can be operated manually using push-button operation. Building site operation is possible.

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

KNX software functions: Characteristics of valve drive (de-energised open/closed), PWM cycle time per channel, valve protection function per channel, cyclical monitoring of the control value per channel, operating hours counter, status indication per channel (nominal value, short circuit, overload, valve protection active, service mode, manual operation active, priority control active), summer and winter mode, locking each output in a forced position, behaviour on bus voltage failure and recovery, mains failure signal, group feedback, transmission of the largest 1 byte variable value.

Nominal voltage: AC 110-230 V, 50/60 Hz Outputs: 6, electronic AC 24 V / 230 V Nominal current: 0.05 ... 0.16 A, ohmic Switch-on current: max. 1.5 A (2 s)

Minimum load per used output: 1 valve drive

Number of valve drives: max. 4 per output (230 V drives)

max. 2 per output (24 V drives)

Device width: 4 modules = approx. 72 mm

Accessories: Thermoelectric valve drive 230 V MTN639125

Thermoelectric valve drive 24 V MTN639126

Contents: With bus connecting terminal and cable cover.



### 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)

# **Room Temperature Control Units**



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### KNX blind and heating actuator with 3 inputs



Version

#### MTN6003-0006

Art. no.

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,

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

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

polar white

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. Operation is carried out by the heating actuator REG-K/6x24/230/0.16A, fan coil actuator REG-K 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 distribu-

- 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)

Art. no.

MTN639125

- Adjustment control
- Plug-in connecting cable
- Plug-in assembly

Supply voltage: AC 230 V, 50/60 Hz

Starting current: max. 350 mA for max. 100 ms

Power consumption: 1 W

Lift: approx. 4 mm

Running time: 3.5 min for 4 mm Positioning force: 100 N ± 5 %

Circulating medium temperature: 0-100°C

Type of protection: IP 54 / II, in all installation positions Connecting cable: 1 m, 2x0.75 mm² pluggable Dimensions: 59.2x44.3x56 mm (HxWxD)

To be completed with: Room temperature control insert with switch MTN536302/04 In KNX, to be completed with: SpaceLogic KNX Heating actuator REG-K/6x24/230/0.16A

SpaceLogic 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**





Version Art. no.

Thermoelectric valve drive 24 V

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. Operation is carried out by the heating actuator REG-K/6x24/230/0.16A, fan coil controller REG-K or a room temperature control unit (24 V) with 2-step or PWM output.

Valve adapters permit compatibility with a variety of valve bodies and heating circuit distribu-

- 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
- Plug-in connecting cable
- Plug-in assembly

Supply voltage: AC/DC 24 V +20%/-10%, 0-60 Hz

Starting current: < 300 mA for max. 2 min

Power consumption: 1 W

Lift: approx. 4 mm

Running time: 3.5 min for 4 mm Positioning force: 100 N ± 5% Medium temperature: 0-100°C

Type of protection/protection class: IP 54 / II, in all installation positions

Connecting cable: 1 m, 2x0.75 mm² pluggable **Dimensions:** 59.2 x 44.3 x 56 mm (HxWxD)

To be completed with: Room temperature control insert with switch MTN536302/04

SpaceLogic KNX Power supply REG, AC 24 V/1 A MTN663529

In KNX, to be completed with: SpaceLogic KNX Heating actuator REG-K/6x24/230/0.16A

MTN6730-0001 SpaceLogic KNX Fan coil actuator REG-K MTN645094 SpaceLogic KNX 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

### SpaceLogic KNX

# **Room Temperature Control Units**







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

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 distribu-

To be completed with: Thermoelectric valve drive 230 V MTN639125, Thermoelectric valve

### Accessories

### **Power supplies**





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### SpaceLogic KNX Power supply REG, 24 V DC / 0.4 A



light grey	MTN693003
Version	Art. no.

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

### SpaceLogic KNX 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

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, SpaceLogic KNX Weather station REG-K/4-gang MTN682991, 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.

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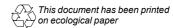
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