KNX Catalogue

Control building functions easily, flexibly and economically

Bus & Connectivity System

P116822

Schneider Electric

Keep everything under control

Schneider Electric's building management system KNX puts you in control, offering you all-in-one solution.
The great advantage – control a multitude of building functions centrally.

Content

KNX

How to make your building smart

P117490

All buildings are made intelligent with KNX

Intelligent building control from Schneider Electric now unites functions under one roof which were previously controlled separately – and this with optimum energy consumption. It is based on KNX – a standard suitable for all types of buildings.

Globally valid standard

KNX is a global standard used by 175 manufacturers worldwide.

Certified system

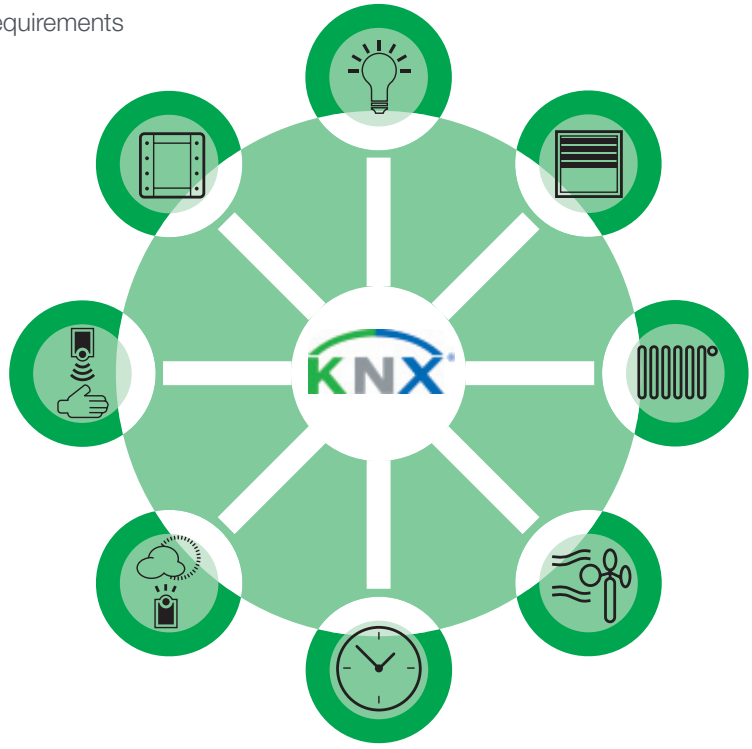
All KNX products – regardless of manufacturer – are certified by the KNX Association, which guarantees their compatibility.

Cost efficiency

KNX guarantees savings on energy consumption and hence on costs too. Mounting times are short and installation is simple, quick and safe.

Flexibility via expandability

The KNX system can be easily adapted should requirements in a building change without tearing open walls and laying new cables.



Everything Under One Roof

Greater flexibility and comfort, better cost efficiency and security with KNX

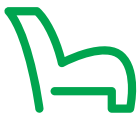
With a new building or building modernisation, whether for commercial or private use, one challenge you'll face is how to accommodate such a wide range of requirements under one roof. How can I achieve long-term savings on energy costs? How can I secure the building against break-ins? These are questions every house builder and investor will face. Schneider Electric KNX solutions have the answers.

Flexibility

Those building today may not be planning for eternity but they're planning for the long-term at least. So it's a good idea if technical building equipment can also be adjusted simply, flexibly and at low cost to the modified requirements and its new users.

Safety and security

Building technology must be able to react quickly and intelligently in critical situations even when nobody's left in the building. With central control of building functions too, a single press of a button will ensure the lights are turned off when an office or house is vacated or that power is switched off for all socket-outlets connected to devices such as photocopiers and kettles.



Comfort

Demands for comfort are not just greater than ever before but ever more individualised too. Technology therefore not only needs to be flexible but simple and convenient to operate.

Cost efficiency

Did you know that the latest building control systems can result in energy savings of up to 30%? This has a positive effect on ongoing operating costs and increases the attractiveness of a property for users and tenants – particularly against a background of rising energy costs. Furthermore, efficient use of energy also pays out for our environment.

Less is more

Save energy and costs in the long term with KNX

A good, fast, cheap and clean solution is to use energy more efficiently. This is not only better for the environment but for your wallet too. This is precisely where KNX comes in, as intelligent building technology enables huge savings on energy, thus reducing operating costs: energy efficiency equals cost efficiency.

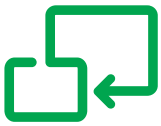
Less energy, more efficiency

Reliable energy efficiency with KNX and SeeTool

With the SeeTool, making energy efficiency a reality is simple. It reveals concrete potential savings for your building – when compared to conventional installations – as early as the planning phase and provides solutions for building control with KNX so this potential can be exploited to the full.

P119170

The benefits of SeeTool at a glance



Less products, more efficient solutions

When suggesting solutions, the SeeTool has access to a range of Schneider Electric KNX products but these have been deliberately kept as few as possible. Our basic approach was to attain maximum efficiency using the minimum number of components - not just with a view to energy consumption but to keeping down costs for purchasing and installation too.

Specific results for specific requirements

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

Demonstrate your competence

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

Certified and tested

The SeeTool has been evaluated by an independent institute, the VTT Technical Research Centre of Finland, which confirmed it to be in line with present methods for calculating energy use.

Free-to-use

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

That’s the life

KNX in residential buildings

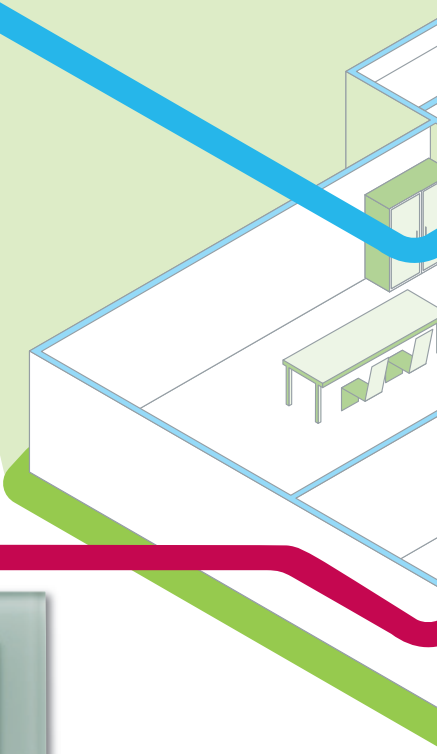
The benefits of intelligent building control can obviously also be applied to private properties. Schneider Electric KNX solutions enable you to manage and control your home with ease, allowing complete relaxation.

KNX Weather station

KNX room temperature control unit, design Unica

Living room:

You can comfortably control lighting scenes, blinds and the temperature from a central point, such as the multifunction push-button with room temperature control unit or from the comfort of your sofa using the IR remote control. You won’t have to worry about the weather, either – the weather station ensures that the heating is turned off when it isn’t needed. Alternatively, if there is a storm, the blinds are raised automatically in order to prevent damage.



Bedroom:

With KNX, you can sleep in comfort and safety. Functions such as the lighting and the blinds can be controlled conveniently using the buttons. Different scenes such as the „Panic“ scene, which switches on the lights throughout the entire house, can be saved in KNX, thus increasing security.

Push button 2gang, design Unica

Hall:

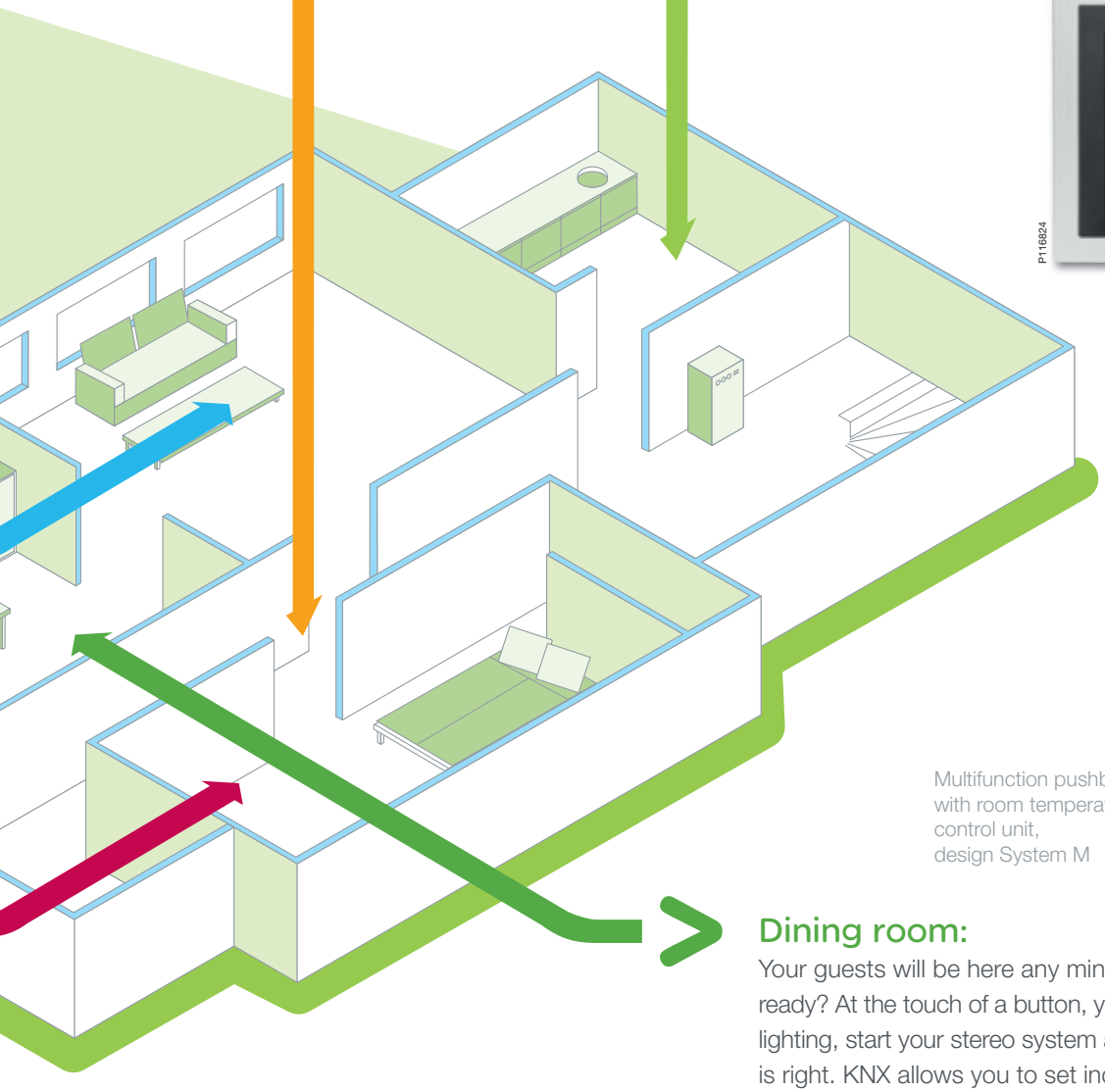
Do you often come home in the evening overloaded with shopping? If you don't want to have to put the bags down to switch on the light in the hall, simply install a KNX indoor movement detector above or next to the door. The light will then come on automatically as soon as you enter the house. During the day, the integrated light sensors ensure that the light doesn't come on when it is not needed.

Movement detector,
design System M

Kitchen:

With the KNX touch panel 7", you've got a view of the whole house from one central point for example in the kitchen where the control unit is installed. All lights and blinds in the house can be controlled from this point, and the temperature can also be set conveniently via the touch panel 7". Thanks to the „Simulate presence" function, the house looks occupied even when there's no-one home, if you simply press a button on the way out.

Touch Panel 7",
design System M



Multifunction pushbutton
with room temperature
control unit,
design System M

Dining room:

Your guests will be here any minute and you are nowhere near ready? At the touch of a button, you can switch on the appropriate lighting, start your stereo system and ensure that the temperature is right. KNX allows you to set individual scenes: Presets for lighting and room temperature for reading, dining or watching television, for example.

Working made easy

KNX in office buildings

Flexibility and cost efficiency are particularly important when it comes to commercial buildings. With intelligent building control, you can effortlessly combine both under one roof – as well as gaining from the practical benefits and additional comfort.

P117856

Optiline click-in system with KNX

Conference room:

Wouldn't it be great to be able to prepare for a presentation without having to worry too much about the technical side? In an intelligent conference room, there's no need to turn all the required switches on or off individually – everything is conveniently controlled from a central switch unit. At the single push of a button, the screen can be automatically moved into position, the blinds lowered, the beamer switched on and the light dimmed.

P105804

Presence detector

Office:

The 2-gang multi-function push-button with room temperature control unit conveniently creates a pleasant room climate. It is actually two devices in one: a multi-function push-button for controlling lights, scenes and blinds and an intelligent control unit for individual, room temperature regulation as and when required.

There is also a presence detector to ensure that light and room temperature are adjusted depending on whether the room is actually occupied

P117492

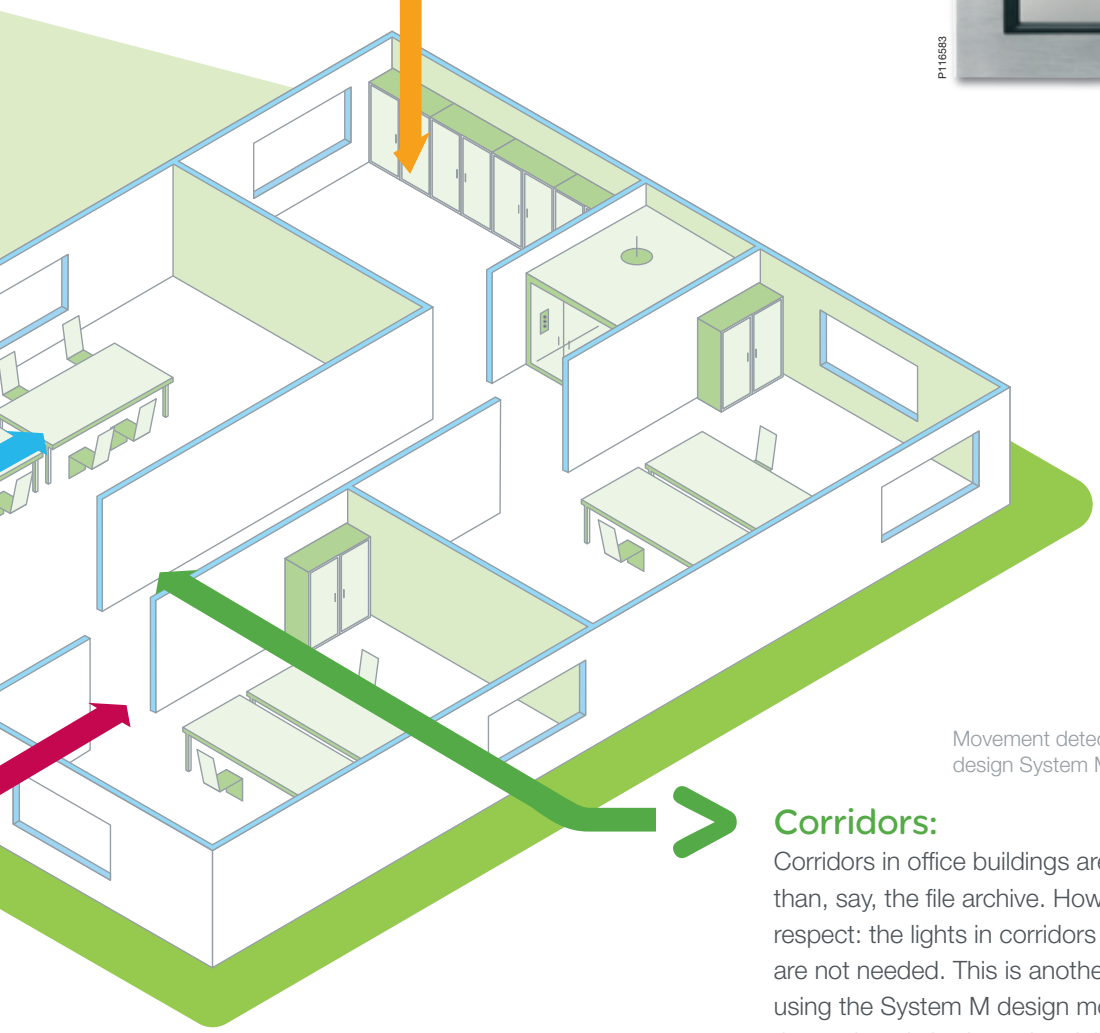
Multifunction pushbutton with room temperature control unit, design Altira

Archiv:

In rooms which are used less often, such as archives, people often forget to switch off the lights. From an energy efficiency point of view, there is a great potential for saving here.Simply control the lighting via a movement detector, and the superfluous energy consumption is gone. Of course, it is also much more convenient when the light comes on automatically.

P116583

Movement detector, design Unica



P106044

Movement detector 2,20, design System M

Corridors:

Corridors in office buildings are frequented much more often than, say, the file archive. However, they are similar in one respect: the lights in corridors are also often left on when they are not needed. This is another problem which can be dealt with using the System M design movement detector. The lighting is then only switched on when it is needed. As an added advantage, this also increases security, as any movement causes the lighting to switch on.

KNX
Overview power supplies

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

Bus voltage supply

The current product database can be obtained from the Internet at http://www.schneider-electric.com or Pl@net.

KNX power supply REG-K/160 mA		KNX power supply REG-K/160 mA with emergency power input	
			
Version	Art. no.	Version	Art. no.
light grey	**MTN684016**	light grey	**MTN683816**
For generating the bus voltage for a line with up to 32 bus devices. With integrated choke to decouple the power supply from the bus and a push-button to disconnect the power and reset the bus devices connected to the line. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary. **Nominal voltage:** AC 110-230 V ±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. 160 mA, short-circuit-proof **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 32 bus devices. The emergency power supply REG can be connected in order to buffer the bus voltage. With integrated choke to decouple the power supply from the bus and a push-button to disconnect the power and reset the bus devices connected to the line. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary. **Nominal voltage:** AC 110-230 V ±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. 160 mA, short-circuit-proof **Device width:** 4 TE = approx. 72 mm **Accessories:** REG emergency power supply MTN683901 **Contents:** With bus connecting terminal and cable cover.	

System components

KNX power supply REG-K/320 mA

Version	Art. no.
light grey	**MTN684032**

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

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

Version	Art. no.
light grey	**MTN683832**

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

KNX power supply REG-K/640 mA

Version	Art. no.
light grey	**MTN684064**

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

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

Version	Art. no.
light grey	**MTN683890**

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

System components

REG emergency power supply

Version	Art. no.
light grey	**MTN683901**

To buffer the bus voltage. If a complete mains failure occurs, an external lead gel battery with a voltage of DC 12 V (SELV) can be connected to the REG power supply for buffering. The lead gel battery is recharged or maintained in its charged state by integrated charging electronics. A binary input can be connected in order to register the operational statuses (mains voltage, error warning, battery operation).
For installation on DIN rails TH35 according to EN 60715. A data rail is not necessary.
Nominal voltage: AC 110-230 V ±10%
Operating voltage: min. AC 92 V - max. AC 253 V
Mains frequency: 50-60 Hz ±10%
Output to power supply:
Output voltage: DC 30 V ±2 V
Output current: without battery with mains supply max. 300 mA, with battery without mains supply max. 640 mA
Short-circuit current: < 1.5 A
Charging current: max. 1 A
Connections: plug-in screw terminal for main connector, operating state (4-pin, 3 floating contacts) and emergency power supply. Plug-in terminal for battery connection (two 1 mm pins)
Device width: 4 modules = approx. 72 mm
In KNX, to be completed with: KNX power supply REG-K/160 mA with emergency power input MTN683816, KNX power supply REG-K/320 mA with emergency power input MTN683832, KNX power supply REG-K/640 mA with emergency power input MTN683890
Accessories: Lead gel battery MTN668990, MTN668991, Binary input REG-K/4x24 MTN644892, Power supply REG, 24 V DC / 0.4 A MTN693003
Contents: With connecting terminal and cable cover

Lead gel battery

Version	Art. no.
7.2 Ah	**MTN668990**

Lead gel battery to connect to the emergency input of the power supply 320 REG-K with battery connection.
Nominal voltage: DC 12 V
Capacity: 7.2 Ah
In KNX, to be completed with: REG emergency power supply MTN683901

Lead gel battery

Version	Art. no.
	MTN668991

Lead gel battery for connecting to the emergency power supply REG.
Nominal voltage: DC 12 V
Capacity: 18 Ah
In KNX, to be completed with: REG emergency power supply MTN683901

System coupler

Coupler REG-K

Version	Art. no.
light grey	**MTN680204**

For logical connection and electrical isolation of lines and areas.
For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
Device width: 2 modules = approx. 36 mm
Contents: With 2 bus connecting terminals.

System components

KNX/IP router REG-K

Version	Art. no.
light grey	**MTN680329**

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

System accessories

Bus connecting terminal

Version	Art. no.
red/dark grey	**MTN689701**

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

Branch terminal, yellow/white

Version	Art. no.
yellow/white	**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 cable.
Contents: 1 PU = 50 terminals.

IR remote control Distance 2010

Version	Art. no.
black	**MTN570222**

10 channel IR remote control. For the control of all TELE sensor covers, blind push-buttons with IR receiver, presence detectors with IR receivers and KNX devices with IR receivers.
Battery: 2 microcells (IEC LR 03, AAA)
Range: up to 20 m
Receiver: TELE sensor cover System M MTN5779.., MTN5703.., Artec/Trancent/Antique MTN5709.., Blind push-button with IR receiver and sensor connection System M MTN5880.., MTN5864.., Artec/Trancent/Antique MTN5844.., ARGUS Presence with IR receiver and for extension unit operation MTN550591, Push-button, 4-gang plus with IR receiver System M MTN6279.., MTN6175.., Artec/Trancent/Antique MTN6284.., KNX 1-gang push-button with IR receiver Altira , Unica , Unica Top , Unica , Unica Top , Unica
Contents: Without battery.

Logic module

KNX Logic module Basic REG-K

Version	Art. no.
light grey	**MTN676090**

In KNX installations, the logic module serves as a logic and control device. It has 10 logic, 10 filter/timer, 8 converter and 12 multiplexer modules.
With 3 freely programmable push-buttons and 3 status LEDs. They can be assigned control and test functions and can be operated on the device.
For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

KNX software functions:

10 logic modules (AND, OR, XOR)

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

10 filter and timer modules

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

8 converter modules

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

12 multiplexer modules (lighting control)

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

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

Push-button and LED assignment

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

Behaviour after bus reset

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

Device width: 2.5 module = approx. 45 mm

Data interfaces

Central plate with square opening

Version	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

Central plate with square opening

Version	Art. no.
white	**MTN297844**
polar white	**MTN297819**
aluminium	**MTN297860**
stainless steel	**MTN297846**

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

USB interface, flush-mounted

Version	Art. no.
	MTN681799

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

USB interface REG-K

Version	Art. no.
light grey	**MTN681829**

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

Gateways

TeleController Plus REG-K

Version	Art. no.
light grey	**MTN680790**

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

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

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

The device is operated with a rotary knob and is supported by display texts and announcements. The PC software provided enable convenient operation and configuration.
With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using screw terminals; a data rail is not necessary.
Power supply: DC 12-24 V
Power consumption: 90 mA at 24 V (open circuit), 790 mA at 24 V (max. load)
Switch outputs: 6, 100 mA at 12 V/24 V
Alarm outputs: 1, 100 mA at 12 V/24 V
Signal inputs: 6, for floating make or break contacts
Telephone: Analogue, CTR 21, line length 3 m
KNX: Screw terminals
RS 232: Cable length 3 m
Device width: 8 modules = approx. 144 mm
Accessories: Handset for TeleController MTN660790, Power supply REG, 24 V DC / 0.4 A MTN693003, Power supply REG, 24 V DC / 1.25 A MTN693004
Contents: PC software, connection cable RS 232.

Handset for TeleController

Version	Art. no.
anthracite	**MTN660790**

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

Interfaces/gateways

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

Version	Art. no.
light grey	**MTN680191**

The DALI gateway connects the KNX with digital electronic ballasts equipped with a DALI interface. The gateway is the DALI master and power supply for the electronic ballasts. It supports the switching and dimming of up to 64 electronic ballasts in 16 groups and the control of 16 lightscenes. In addition, the 64 electronic ballasts can be individually activated via KNX or compiled via KNX group addresses.
Error messages of individual electronic ballasts or each connected lamp can be transmitted to the KNX and visualised on display devices. DALI commissioning and configuration, as well as group assignment and scene setting can be carried out using:

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

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

The network and the DALI cable as well as the switch inputs are connected via screw terminals on the device.
With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
Supply voltage: AC 110 - 240 V, 50 - 60 Hz
Inputs: 2, passive DC 9 - 36 V or AC 9 - 24 V
Outputs: DALI D+, D- in line with DALI specification DC 16 - 18 V, 150 mA, short circuit-proof
Interfaces: 1xRJ45
Connecting cable: 1.5 - 2.5 mm²
Type of protection: IP 20
Device width: 6 modules = approx. 108 mm
Contents: With bus connecting terminal.

Push-button

Push-buttons System M

Push-button, 1-gang plus

Version	Art. no.
white, glossy	**MTN617144**
polar white, glossy	**MTN617119**
active white, glossy	**MTN617125**
anthracite	**MTN627514**
aluminium	**MTN627560**

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

Push-button, 2-gang plus

Version	Art. no.
white, glossy	**MTN617244**
polar white, glossy	**MTN617219**
active white, glossy	**MTN617225**
anthracite	**MTN627614**
aluminium	**MTN627660**

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

Push-button

Push-button, 4-gang plus

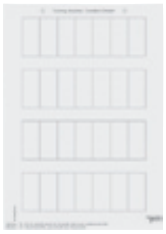
Version	Art. no.
white, glossy	**MTN617444**
polar white, glossy	**MTN617419**
active white, glossy	**MTN617425**
anthracite	**MTN627814**
aluminium	**MTN627860**

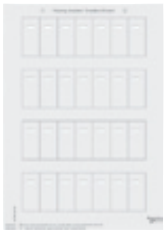
For System M.
With integrated bus coupling unit.
Push-button with 8 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light.
The device is connected to the bus line with a bus connecting terminal.
KNX software functions: Switching,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

Push-button, 4-gang plus with IR receiver

Version	Art. no.
white, glossy	**MTN617544**
polar white, glossy	**MTN617519**
active white, glossy	**MTN617525**
anthracite	**MTN627914**
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 functions of each of the keys can be triggered using an IR remote control.┐The push-button is pre-programmed for operation with a Merten IR remote control Distance. Many other IR remote controls (e.g. existing TV or CD player remote controls) can be taught into the push-buttons.
The device is connected to the bus line with a bus connecting terminal.
KNX software functions: Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.
Accessories: Labelling sheets for multi-function push-button with IR receiver System M MTN6184 ..
Transmitter: IR remote control Distance 2010 MTN570222
Contents: With protective hood for plaster. With bus connecting terminal.





Labelling sheets for push-buttons

Version	Art. no.
polar white	**MTN618319**
silver	**MTN618320**

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

Labelling sheets for multi-function push-button with IR receiver

Version	Art. no.
polar white	**MTN618419**
silver	**MTN618420**

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

Push-button

Protective hood for plaster

Version	Art. no.
	MTN627591

For System M.
To protect push-buttons, rockers, room temperature control units and room controllers from contamination from painting and decorating work.
Accessories from: Push-button, 1-gang plus System M MTN6275.., MTN6171.., Push-button, 2-gang plus System M MTN6276.., MTN6172.., Push-button, 4-gang plus System M MTN6278.., MTN6174.., Push-button, 4-gang plus with IR receiver System M MTN6279.., MTN6175.., Push-button 2-gang plus with room temperature control unit System M MTN6212-03.. /-04.., Rocker for 1-gang push-button module System M MTN6191.., MTN6251.., Rocker for 1-gang push-button module with 1/0 imprint System M MTN6254.., MTN6193.., Rocker for 1-gang push-button module with up/down arrow imprint System M MTN6255.., MTN6194.., Rockers for 2-gang push-button module System M MTN6192.., MTN6252.., Rockers for 2-gang push-button module with 1/0 and up/down arrow imprint System M MTN6256.., MTN6195.., Rockers for 2-gang push-button module with up/down arrow and 1/0 imprint System M MTN6257.., MTN6196.., Rockers for 2-gang push-button module with up/down arrow imprint System M MTN6258.., MTN6197..
Note: When the protective hood for plaster is in place, the temperature measurement of the room temperature control unit is restricted.

Push-button

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

Version	Art. no.
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.
With 5 red LEDs.
The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day (external trigger), display mode, time, switching times and brightness of the display.
The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.
With integrated bus coupler. The bus is connected using a bus connecting terminal.
KNX software functions:
Functions of the push-buttons:

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

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

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

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

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

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

Monitoring function for the actual temperature, valve protection function.

Scene function.

Operation: Menu.
Contents: With bus connecting terminal and supporting plate.
Screw for protection against dismantling.
With protective hood for plaster.

Push-button

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

Version	Art. no.
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.
Functions of the room temperature control unit:

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

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

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

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

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

Monitoring function for the actual temperature, valve protection function.

Scene function.

Operation: Menu.
Transmitter: IR remote control Distance 2010 MTN570222
To be completed with: M-Smart frame, 2-gang without central bridge piece MTN4788.., M-Arc frame, 2-gang without central bridge piece MTN4858.., M-Star frame, 2-gang without central bridge piece MTN4668.., MTN4768.., MTN4868.., M-Plan frames, 2-gang without central bridge piece MTN4888.., MTN5158.., Metal frame, 2-gang without central bridge piece M-Elegance MTN4038.., Wood frame, 2-gang without central bridge piece M-Elegance MTN4058.., Real glass frame, 2-gang without central bridge piece M-Elegance MTN4048..
Contents: With bus connecting terminal and supporting plate.
Screw for protection against dismantling.
With protective hood for plaster.

Push-button

Rocker for 1-gang push-button module

Version	Art. no.
white, glossy	**MTN619144**
polar white, glossy	**MTN619119**
active white, glossy	**MTN619125**
anthracite	**MTN625114**
aluminium	**MTN625160**

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

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

Version	Art. no.
white, glossy	**MTN619344**
polar white, glossy	**MTN619319**
active white, glossy	**MTN619325**
anthracite	**MTN625414**
aluminium	**MTN625460**

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

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

Version	Art. no.
white, glossy	**MTN619444**
polar white, glossy	**MTN619419**
active white, glossy	**MTN619425**
anthracite	**MTN625514**
aluminium	**MTN625560**

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

KNX push-button module, 1-gang

Version	Art. no.
	MTN625199

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

Push-button

Rockers for 2-gang push-button module

Version	Art. no.
white, glossy	**MTN619244**
polar white, glossy	**MTN619219**
active white, glossy	**MTN619225**
anthracite	**MTN625214**
aluminium	**MTN625260**

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

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

Version	Art. no.
white, glossy	**MTN619544**
polar white, glossy	**MTN619519**
active white, glossy	**MTN619525**
anthracite	**MTN625614**
aluminium	**MTN625660**

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

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

Version	Art. no.
white, glossy	**MTN619644**
polar white, glossy	**MTN619619**
active white, glossy	**MTN619625**
anthracite	**MTN625714**
aluminium	**MTN625760**

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

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

Version	Art. no.
white, glossy	**MTN619744**
polar white, glossy	**MTN619719**
active white, glossy	**MTN619725**
anthracite	**MTN625814**
aluminium	**MTN625860**

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

Push-button

KNX push-button module, 2-gang

Version	Art. no.
	MTN625299

For System M.
Push-button module without rockers. With programmable status display.
The device is connected to the bus line with a bus connecting terminal. With integrated bus coupler.
KNX software functions: The push-buttons can be parameterised either as a pair (dual-surface) or individually (single-surface).
Single-surface: Switch ON or switch OFF, dimming, scenes.
Dual-surface: Switch ON or switch OFF, dimming, scenes, blinds.
In KNX, to be completed with: Rockers for 2-gang push-button module System M MTN6192.., MTN6252.., Rockers for 2-gang push-button module with 1/0 and up/down arrow imprint System M MTN6256.., MTN6195.., Rockers for 2-gang push-button module with up/down arrow and 1/0 imprint System M MTN6257.., MTN6196.., Rockers for 2-gang push-button module with up/down arrow imprint System M MTN6258.., MTN6197..

Push-buttons Artec/Trancent/Antique

Push-button, 1-gang plus

Version	Art. no.
white, glossy	**MTN628044**
polar white, glossy	**MTN628019**
aluminium	**MTN628060**
stainless steel	**MTN628046**

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

Push-button, 2-gang plus

Version	Art. no.
white, glossy	**MTN628144**
polar white, glossy	**MTN628119**
aluminium	**MTN628160**
stainless steel	**MTN628146**

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

Push-button

Push-button, 3-gang plus

Version	Art. no.
white, glossy	**MTN628244**
polar white, glossy	**MTN628219**
aluminium	**MTN628260**
stainless steel	**MTN628246**

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

Push-button, 4-gang plus

Version	Art. no.
white, glossy	**MTN628344**
polar white, glossy	**MTN628319**
aluminium	**MTN628360**
stainless steel	**MTN628346**

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

Push-button

Push-button, 4-gang plus with IR receiver

Version	Art. no.
white, glossy	**MTN628444**
polar white, glossy	**MTN628419**
aluminium	**MTN628460**
stainless steel	**MTN628446**

For Artec, Trancent, Antique.
With integrated bus coupling unit.
Push-button with eight operating buttons, operating display, eight blue status displays which can be triggered separately, and a labelling field. The blue operating display can also be used as an orientation sign. The lower labelling field can be parameterised as an additional operating key. The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.
The functions of each of the keys can be triggered using an IR remote control.ŋThe push-button is pre-programmed for operation with a Merten IR remote control Distance. Many other IR remote controls (e.g. existing TV or CD player remote controls) can be taught to the push-buttons.
The device is connected to the bus line with a bus connecting terminal.
KNX software functions: Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.
Accessories: Labelling sheets for push-button plus MTN617819
Transmitter: IR remote control Distance 2010 MTN570222
Contents: With protective hood for plaster.
With bus connecting terminal.

Labelling sheets for push-button plus

Version	Art. no.
	MTN617819

For individual labelling of the Artec/Trancent/Antique push-button plus with text or symbols.
Accessories from: Push-button, 2-gang plus Artec/Trancent/Antique MTN6281.., Push-button, 3-gang plus Artec/Trancent/Antique MTN6282.., Push-button, 4-gang plus Artec/Trancent/Antique MTN6283.., Push-button, 4-gang plus with IR receiver Artec/Trancent/Antique MTN6284..
Contents: 1 sheet for 20 products.

Push-button

Protective hood for plaster

Version	Art. no.
	MTN628091

For Artec, Trancent, Antique.
To protect push-buttons, rockers, room temperature control units and room controllers from contamination from painting and decorating work.
Accessories from: Push-button, 2-gang plus Artec/Trancent/Antique MTN6281.., Push-button, 3-gang plus Artec/Trancent/Antique MTN6282.., Push-button, 4-gang plus Artec/Trancent/Antique MTN6283.., Push-button, 4-gang plus with IR receiver Artec/Trancent/Antique MTN6284.., Push-button 2-gang plus with room temperature control unit Artec MTN6212-40.. /-41.., Room temperature control unit with display Artec MTN6241-40.. /-41.., Rocker for 1-gang push-button module Artec/Trancent/Antique MTN6261.., Rocker for 1-gang push-button module with 1/0 imprint Artec/Trancent/Antique MTN6264.., Rocker for 1-gang push-button module with up/down arrow imprint Artec/Trancent/Antique MTN6265.., Rockers for 2-gang push-button module Artec/Trancent/Antique MTN6262.., Rockers for 2-gang push-button module with 1/0 and up/down arrow imprint Artec/Trancent/Antique MTN6266.., Rockers for 2-gang push-button module with up/down arrow and 1/0 imprint Artec/Trancent/Antique MTN6267.., Rockers for 2-gang push-button module with up/down arrow imprint Artec/Trancent/Antique MTN6268..
Note: When the protective hood for plaster is in place, the temperature measurement of the room temperature control unit is restricted.

Push-button

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

Version	Art. no.
white, glossy	**MTN6212-4044**
polar white, glossy	**MTN6212-4019**
aluminium	**MTN6212-4060**
stainless steel	**MTN6212-4146**

For Artec, Trancent, Antique.
Convenient control unit with 4 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light.
With room temperature control unit and display.
With 5 blue LEDs.
The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day (external trigger), display mode, time, switching times and brightness of the display.
The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.
With integrated bus coupler. The bus is connected using a bus connecting terminal.
KNX software functions:
Functions of the push-buttons:

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

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

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

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

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

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

Monitoring function for the actual temperature, valve protection function.

Scene function.

Operation: Menu.
Contents: With bus connecting terminal and supporting plate.
Screw for protection against dismantling.
With protective hood for plaster.

Push-button

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

Version	Art. no.
white, glossy	**MTN6214-4044**
polar white, glossy	**MTN6214-4019**
aluminium	**MTN6214-4060**
stainless steel	**MTN6214-4146**

For Artec, Trancent, Antique.
Convenient control unit with 8 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light.
With room temperature control unit and display.
With integrated piezoelectric buzzer to display alarm states and IR receiver. All functions of the respective buttons can be controlled via IR remote control.
With 9 blue LEDs.
The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day (external trigger), display mode, time, switching times and brightness of the display.
The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.
With integrated bus coupler. The bus is connected using a bus connecting terminal.
KNX software functions:
Functions of the push-buttons:

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

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

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

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

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

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

Monitoring function for the actual temperature, valve protection function.

Scene function.

Operation: Menu.
Transmitter: IR remote control Distance 2010 MTN570222
To be completed with: Artec frame, 1.5-gang MTN4819..
Contents: With bus connecting terminal and supporting plate.
Screw for protection against dismantling.
With protective hood for plaster.

Push-button

Rocker for 1-gang push-button module

Version	Art. no.
white, glossy	**MTN626144**
polar white, glossy	**MTN626119**
aluminium	**MTN626160**
varnished stain-less steel	**MTN626146**

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

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

Version	Art. no.
white, glossy	**MTN626444**
polar white, glossy	**MTN626419**
aluminium	**MTN626460**
varnished stain-less steel	**MTN626446**

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

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

Version	Art. no.
white, glossy	**MTN626544**
polar white, glossy	**MTN626519**
aluminium	**MTN626560**
varnished stain-less steel	**MTN626546**

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

KNX push-button module, 1-gang

Version	Art. no.
	MTN626199

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

Push-button

Rockers for 2-gang push-button module

Version	Art. no.
white, glossy	**MTN626244**
polar white, glossy	**MTN626219**
aluminium	**MTN626260**
varnished stainless steel	**MTN626246**

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

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

Version	Art. no.
white, glossy	**MTN626644**
polar white, glossy	**MTN626619**
aluminium	**MTN626660**
varnished stainless steel	**MTN626646**

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

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

Version	Art. no.
white, glossy	**MTN626744**
polar white, glossy	**MTN626719**
aluminium	**MTN626760**
varnished stainless steel	**MTN626746**

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

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

Version	Art. no.
white, glossy	**MTN626844**
polar white, glossy	**MTN626819**
aluminium	**MTN626860**
varnished stainless steel	**MTN626846**

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

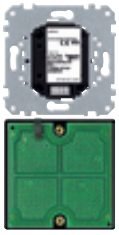
Push-button

KNX push-button module, 2-gang

Version	Art. no.
	MTN626299

For Artec, Trancent, Antique.
Push-button module without rockers. With programmable status display.
The device is connected to the bus line with a bus connecting terminal. With integrated bus coupler.
KNX software functions: The push-buttons can be parameterised either as a pair (dual-surface) or individually (single-surface).
Single-surface: Switch ON or switch OFF, dimming, scenes.
Dual-surface: Switch ON or switch OFF, dimming, scenes, blinds.
In KNX, to be completed with: Rockers for 2-gang push-button module Artec/Trancent/Antique MTN6262.., Rockers for 2-gang push-button module with 1/0 and up/down arrow imprint Artec/Trancent/Antique MTN6266.., Rockers for 2-gang push-button module with up/down arrow and 1/0 imprint Artec/Trancent/Antique MTN6267.., Rockers for 2-gang push-button module with up/down arrow imprint Artec/Trancent/Antique MTN6268..

Push-button Trancent



Control electronics, 1- to 4-gang

Version	Art. no.
	MTN6164-4600

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

Push-button

Glass sensor cover, 1-gang

Version	Art. no.
transparent	**MTN569100**
satinated	**MTN569101**

For switching and dimming lighting systems, controlling roller shutters and scenes (KNX). The glass sensor cover reacts to the lightest of touches. Control electronics evaluate the signal and forward it to the switch, dimming or roller shutter insert or bus coupler.
To be completed with: Control electronics, 1-gang Trancent MTN569090, Two-circuit control electronics Trancent MTN569091, Roller shutter control electronics Trancent MTN569092, Control electronics, 1- to 4-gang MTN6461-4600, Blanking cover for labelling purposes Trancent MTN569000
Accessories: Cover foil for glass sensor cover Trancent MTN569190
To be completed with: Trancent frame, 1-gang MTN482160
Contents: With cover foil, 1-gang and screws.

Trancent frame, 1-gang

Version	Art. no.
aluminium	**MTN482160**

For vertical and horizontal installation.

Glass sensor cover, 2-gang

Version	Art. no.
transparent	**MTN569200**
satinated	**MTN569201**

For switching and dimming lighting systems, controlling roller shutters and scenes (KNX). The glass sensor cover reacts to the lightest of touches. Control electronics evaluate the signal and forward it to the switch, dimming or roller shutter insert or bus coupler.
To be completed with: Control electronics, 1-gang Trancent MTN569090, Two-circuit control electronics Trancent MTN569091, Roller shutter control electronics Trancent MTN569092, Control electronics, 1- to 4-gang MTN6461-4600, Blanking cover for labelling purposes Trancent MTN569000
Accessories: Cover foil for glass sensor cover Trancent MTN569290
To be completed with: Trancent frame, 2-gang MTN482260
Contents: With cover foil, 2-gang and screws.

Trancent frame, 2-gang

Version	Art. no.
aluminium	**MTN482260**

For vertical and horizontal installation.

Push-button

Glass sensor cover, 3-gang

Version	Art. no.
transparent	**MTN569300**
satinated	**MTN569301**

For switching and dimming lighting systems, controlling roller shutters and scenes (KNX). The glass sensor cover reacts to the lightest of touches. Control electronics evaluate the signal and forward it to the switch, dimming or roller shutter insert or bus coupler.
To be completed with: Control electronics, 1-gang Trancent MTN569090, Two-circuit control electronics Trancent MTN569091, Roller shutter control electronics Trancent MTN569092, Control electronics, 1- to 4-gang MTN6461-4600, Blanking cover for labelling purposes Trancent MTN569000
Accessories: Cover foil for glass sensor cover Trancent MTN569390
To be completed with: Trancent frame, 3-gang MTN482360
Contents: With cover foil, 3-gang and screws.

Trancent frame, 3-gang

Version	Art. no.
aluminium	**MTN482360**

For vertical and horizontal installation.

Cover foil for glass sensor cover

Version	Art. no.
for 569100/01	**MTN569190**
for 569200/01	**MTN569290**
for 569300/01	**MTN569390**

For individual labelling of the Trancent glass sensor covers with text or symbols.
For laser printers
Contents: For glass sensor cover, 1-gang: 1 sheet for 6 products. For glass sensor cover, 2-gang: 1 sheet for 3 products. For glass sensor cover, 3-gang: 1 sheet for 2 products.

Push-button

Push-buttons Altira

KNX push-button 1-gang

Version	Art. no.
white	**ALB45150**
aluminium	**ALB46150**

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

KNX push-button 2-gang

Version	Art. no.
white	**ALB45151**
aluminium	**ALB46151**

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

KNX 1-gang push-button with IR receiver

Version	Art. no.
white	**ALB45152**
aluminium	**ALB46152**

2 modules
In Altira design.
KNX-push-button with 2 buttons, blue status LED and IR receiver. The status LED is located under the symbol window which can be taken off.
The functions of each of the button can be triggered using an IR remote control.
The push-button is pre-programmed for operation with a Schneider-Electric IR remote control Distance. Many other IR remote controls (e.g. existing TV or CD player remote controls) can be taught into the push-buttons.
With integrated bus coupler. The bus is connected using a bus connecting terminal.
KNX software functions: Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.
Transmitter: IR remote control Distance 2010 MTN570222
Contents: With bus connecting terminal.

Push-button

Push-buttons Unica

KNX push-button 1-gang

Version	Art. no.
☐ white	**MGU3.530.18**
ivory	**MGU3.530.25**

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

KNX push-button 2-gang

Version	Art. no.
☐ white	**MGU3.531.18**
ivory	**MGU3.531.25**

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

KNX 1-gang push-button with IR receiver

Version	Art. no.
☐ 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 remote control Distance 2010 MTN570222
Contents: With bus connecting terminal.

Push-button

KNX push-button 1-gang

Version	Art. no.
☐ white	**MGU5.530.18**
ivory	**MGU5.530.25**

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

KNX push-button 2-gang

Version	Art. no.
☐ white	**MGU5.531.18**
ivory	**MGU5.531.25**

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

KNX 1-gang push-button with IR receiver

Version	Art. no.
☐ white	**MGU5.532.18**
ivory	**MGU5.532.25**

2 modules
In Unica design.
KNX-push-button with 2 buttons, blue status LED and IR receiver. The status LED is located under the symbol window which can be taken off.
The functions of each of the button can be triggered using an IR remote control.
The push-button is pre-programmed for operation with a Schneider-Electric IR remote control Distance. Many other IR remote controls (e.g. existing TV or CD player remote controls) can be taught into the push-buttons.
With integrated bus coupler. The bus is connected using a bus connecting terminal.
KNX software functions: Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.
Transmitter: IR remote control Distance 2010 MTN570222
Contents: With fixing frame.
With bus connecting terminal.

Push-button

KNX push-button 1-gang

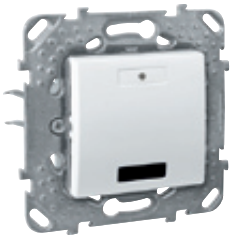
Version	Art. no.
☐ white	**MGU50.530.18**
☐ ivory	**MGU50.530.25**

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

KNX push-button 2-gang

Version	Art. no.
☐ white	**MGU50.531.18**
☐ ivory	**MGU50.531.25**

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



KNX 1-gang push-button with IR receiver

Version	Art. no.
☐ white	**MGU50.532.18**
☐ ivory	**MGU50.532.25**

2 modules
In Unica design.
KNX-push-button with 2 buttons, blue status LED and IR receiver. The status LED is located under the symbol window which can be taken off.
The functions of each of the button can be triggered using an IR remote control.
The push-button is pre-programmed for operation with a Schneider-Electric IR remote control Distance. Many other IR remote controls (e.g. existing TV or CD player remote controls) can be taught into the push-buttons.
With integrated bus coupler. The bus is connected using a bus connecting terminal.
KNX software functions: Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.
Transmitter: IR remote control Distance 2010 MTN570222
Contents: With fixing frame and claws.
With bus connecting terminal.

Push-button

Push-buttons Unica Top

KNX push-button 1-gang

Version	Art. no.
aluminium	**MGU3.530.30**
graphite	**MGU3.530.12**

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

KNX push-button 2-gang

Version	Art. no.
aluminium	**MGU3.531.30**
graphite	**MGU3.531.12**

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

KNX 1-gang push-button with IR receiver

Version	Art. no.
aluminium	**MGU3.532.30**
graphite	**MGU3.532.12**

2 modules
In Unica Top design.
KNX-push-button with 2 buttons, blue status LED and IR receiver. The status LED is located under the symbol window which can be taken off.
The functions of each of the button can be triggered using an IR remote control.
The push-button is pre-programmed for operation with a Schneider-Electric IR remote control Distance. Many other IR remote controls (e.g. existing TV or CD player remote controls) can be taught into the push-buttons.
With integrated bus coupler. The bus is connected using a bus connecting terminal.
KNX software functions: Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.
Transmitter: IR remote control Distance 2010 MTN570222
Contents: With bus connecting terminal.

Push-button

KNX push-button 1-gang

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

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

KNX push-button 2-gang

Version	Art. no.
aluminium	**MGU5.531.30**
graphite	**MGU5.531.12**

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

KNX 1-gang push-button with IR receiver

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

2 modules
In Unica Top design.
KNX-push-button with 2 buttons, blue status LED and IR receiver. The status LED is located under the symbol window which can be taken off.
The functions of each of the button can be triggered using an IR remote control.
The push-button is pre-programmed for operation with a Schneider-Electric IR remote control Distance. Many other IR remote controls (e.g. existing TV or CD player remote controls) can be taught into the push-buttons.
With integrated bus coupler. The bus is connected using a bus connecting terminal.
KNX software functions: Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.
Transmitter: IR remote control Distance 2010 MTN570222
Contents: With fixing frame.
With bus connecting terminal.

Push-button

KNX push-button 1-gang

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

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

KNX push-button 2-gang

Version	Art. no.
aluminium	**MGU50.531.30**
graphite	**MGU50.531.12**

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

KNX 1-gang push-button with IR receiver

Version	Art. no.
aluminium	**MGU50.532.30**
graphite	**MGU50.532.12**

2 modules
In Unica Top design.
KNX-push-button with 2 buttons, blue status LED and IR receiver. The status LED is located under the symbol window which can be taken off.
The functions of each of the button can be triggered using an IR remote control.
The push-button is pre-programmed for operation with a Schneider-Electric IR remote control Distance. Many other IR remote controls (e.g. existing TV or CD player remote controls) can be taught into the push-buttons.
With integrated bus coupler. The bus is connected using a bus connecting terminal.
KNX software functions: Switching, toggling, dimming (single/dual-surface), blind (single/dual-surface), pulse edges trigger 1-, 2-, 4- or 8-bit telegrams (distinction between short and long operation), pulse edges with 2-byte telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions.
Transmitter: IR remote control Distance 2010 MTN570222
Contents: With fixing frame and claws.
With bus connecting terminal.

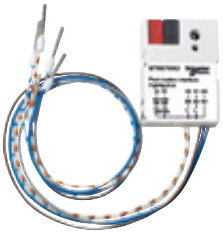
KNX
Overview binary inputs

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

	Binary input REG-K/x24		Binary input REG-K/x230	
				
	MTN644892	**MTN644792**	**MTN644992**	**MTN644692**
	4	8	4	8
	—	—	—	—
	2.5 modules	4 modules	2,5 modules	4 modules
	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	
	Cabinet		Cabinet	
	Plug-in screw terminals		Plug-in screw terminals	
	—		—	
	AC/DC 24 V / —		AC 230 V / —	
	AC 6 mA, DC 15 mA / —		AC 12 mA / —	
	0 signal: ≤ 5 V 1 signal: ≥11 V		0 signal: ≤ 40 V 1 signal: ≥160 V	
	100 m		100 m	
	■		■	
	■		■	
	■		■	
	■		■	
	■		■	
	■		■	
	■		■	
	■		■	
	■		■	
	■		■	
	■		■	
	■		■	
	■		■	
	■ ■		■ ■	

Binary inputs

Binary inputs



Push-button interface, 2-gang plus

Version	Art. no.
polar white	**MTN670802**

Generates an internal signal voltage for connecting two conventional push-buttons or floating contacts, and for connecting two low-current LEDs.
The cores are 30 cm long and can be extended to max. 7.5 m. For installation in a conventional 60 mm switch box.
KNX software functions: Switching, dimming or controlling blinds via 1 or 2 inputs, position values for blind control (8-bit), pulse edges with 1-, 2-, 4-, or 8-bit telegrams, differentiation between short and long activation, initialisation telegram, cyclical transmission, pulse edges with 2-byte telegrams, 8-bit linear regulator, scenes, counter, disable function, break contact/make contact, debounce time. Outputs for connecting control lamps (low-current LEDs) for the status display.
For each input/output object type:
Contact voltage: < 3 V (SELV)
Contact current: < 0.5 mA
Output current: max. 2 mA
Max. cable length: 30 cm unshielded, can be extended up to max. 7.5 m with twisted unshielded cable.
Dimensions: approx. 40x30.5x12.5 mm (LxWxH)

Push-button interface, 4-gang plus

Version	Art. no.
polar white	**MTN670804**

Generates an internal signal voltage for connecting four conventional push-buttons or floating contacts, and for connecting four low-current LEDs.
The cores are 30 cm long and can be extended to max. 7.5 m. For installation in a conventional 60 mm switch box.
KNX software functions: Switching, dimming or controlling blinds via 1 or 2 inputs, position values for blind control (8-bit), pulse edges with 1-, 2-, 4-, or 8-bit telegrams, differentiation between short and long activation, initialisation telegram, cyclical transmission, pulse edges with 2-byte telegrams, 8-bit linear regulator, scenes, counter, disable function, break contact/make contact, debounce time. Outputs for connecting control lamps (low-current LEDs) for the status display.
For each input/output object type:
Contact voltage: < 3 V (SELV)
Contact current: < 0.5 mA
Output current: max. 2 mA
Max. cable length: 30 cm unshielded, can be extended up to max. 7.5 m with twisted unshielded cable.
Dimensions: approx. 40x30.5x12.5 mm (LxWxH)

Binary inputs

Binary input REG-K/4x10

Version	Art. no.
light grey	**MTN644492**

For connecting four conventional push-buttons or floating contacts to the KNX. Internally generates a signal voltage SELV, electrically isolated from the bus.
With integrated bus coupler and plug-in screw terminals.
The input voltage level is displayed at each input with a yellow LED. A green LED indicates that the device is ready for operation once the application has been loaded.
For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Switching, dimming or blind control via 1 or 2 inputs. Positioning values for blind control (8-bit). Pulse edges with 1-, 2-, 4-, or 8-bit telegrams. Differentiation between short/long operation. Initialisation telegram. Cyclical sending. Pulse edges with 2-byte telegrams. 8-bit linear regulator. Disable function. Break/make contact. Debounce time.
Inputs: 4
Contact voltage: max. 10 V, clocked
Contact current: max. 2 mA, pulsing
Cable length: max. 50 m
Device width: 2.5 modules = approx. 45 mm
Contents: With bus connecting terminal and cable cover.

Binary input REG-K/8x10

Version	Art. no.
light grey	**MTN644592**

For connecting eight conventional push-buttons or floating contacts to the KNX. Internally generates a signal voltage SELV, electrically isolated from the bus.
With integrated bus coupler and plug-in screw terminals.
The input voltage level is displayed at each input with a yellow LED. A green LED indicates that the device is ready for operation once the application has been loaded.
For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Switching, dimming or blind control via 1 or 2 inputs. Positioning values for blind control (8-bit). Pulse edges with 1-, 2-, 4-, or 8-bit telegrams. Differentiation between short/long operation. Initialisation telegram. Cyclical sending. Pulse edges with 2-byte telegrams. 8-bit linear regulator. Disable function. Break/make contact. Debounce time.
Inputs: 8
Contact voltage: max. 10 V, clocked
Contact current: max. 2 mA, pulsing
Cable length: max. 50 m
Device width: 4 modules = approx. 70 mm
Contents: With bus connecting terminal and cable cover.

Binary inputs

Binary input REG-K/4x24

Version	Art. no.
light grey	**MTN644892**

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

Binary input REG-K/8x24

Version	Art. no.
light grey	**MTN644792**

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

Binary inputs

Binary input REG-K/4x230

Version	Art. no.
light grey	**MTN644992**

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

Binary input REG-K/8x230

Version	Art. no.
light grey	**MTN644692**

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

KNX
Overview presence detectors and movement detectors

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

	KNX ARGUS Presence 180/2,20 m, flush-mounted	KNX ARGUS 180/2,20 m, flush-mounted	KNX ARGUS 180, flush-mounted		KNX ARGUS 220
					
	MTN6304.., MTN6306..	**MTN6317.., MTN6327..**	**MTN6316.., MTN6326..**	**MTN6318..**	**MTN6325..**
	System M	System M	System M	Artec, Antique, Trancent	—
	Large offices, waiting rooms, classrooms, private areas, public buildings Lighting, blinds, heating control	Corridors, private areas, public buildings Lighting, blinds, heating control	Corridors, private areas, public areas with limited access Lighting, blinds, heating control		Entrance areas, patios, garages, large-scale indoor areas where devices with a protection type higher IP20 are required (working rooms, wellness centres, ...) Lighting
	Flush mounting, indoor	Flush mounting, indoor	Flush mounting, indoor		Surface mounting, outdoor, indoor
	IP 20	IP 20	IP 20		IP 55
	2.2 m oder 1.1 m (halved range)	2.2 m oder 1.1 m (halved range)	1.10 m		2.5 m
	180°	180°	180°		220°, adjustable lense
	8 m right/left, 12 m to the front	8 m right/left, 12 m to the front	8 m radius		14 m right/left, 16 m to the front
	6	6	1		7
	46	46	14		112
	—	—	—		448
	2	2	1		1
	10-2000 Lux	10-2000 Lux	10-2000 Lux		3-2000 Lux
	1 s - 8 min	1 s - 8 min	1 s - 8 min		1 s - 8 min
	1 s - 255 h	1 s - 255 h	1 s - 255 h		1 s - 255 h
	—	—	—		—
	5	5	5		5
	4	4	4		4
	■ ■ ■ ■ ■ ■ ■ ■ ■	■ ■ ■ ■ ■ ■ ■ ■ ■	■ ■ ■ ■ ■ ■ ■ ■ —		■ ■ ■ ■ ■ ■ ■ ■ —
	■	■	■		—
	■	—	—		—
	■	■	■		■
	■	—	—		—
	■	■	■		■
	■	■	■		■
	—	■	■		■
	— —	— —	— —		— —

KNX
Overview presence detectors and movement detectors

	KNX Movement detector 180			
				
Article number	**MGU3.533.18/25**	**MGU5.533.18/25**	**MGU50.533.18/25**	
Design	Unica			
Use cases (examples)	Corridors, private areas, public areas with limited access Lighting, blinds, heating control			
Installation site	Flush mounting, indoor			
Protection type	IP 20			
Recomended mounting height	1.10 m			
Angle of detection	180°			
Range (right, left / front)	8 m Radius			
Number of levels	1			
Number of zones	14			
Number of switching segments	—			
Number of movement sensors	1			
Light sensor	10-2000 Lux			
Staircase timer adjustable on the device	1 s - 8 min			
Staircase timer adjustable in the ETS	1 s - 255 h			
Software				
Light regulation for a permanent desired brightness	—			
Number of movement/presence blocks	5			
Number of functions per block	4			
Functions per block ■ 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-specifi-cally adjustable	 ■ ■ ■ ■ ■ ■ ■ —			
Brightness value correction	■			
Cyclical sending of the determined brightness value	—			
Cyclical sending of brightness value via 2 bytes object	■			
Brightness threshold adjustable via object	—			
Master/Slave function	■			
Monitoring function (cyclical sending)	■			
Dead time adjustable (noise reduction)	■			
IR receiver up to 10 channels ■ IR functions with KNX telegrams ■ Configuration of brightness treshold, staircase timer and range	 — —			

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

Movement detector

Movement detectors

KNX ARGUS 220

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

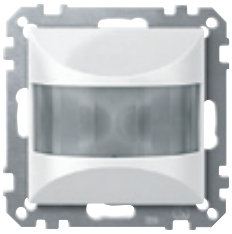
KNX movement detector for outdoors. 220° surface monitoring for large house fronts and sections of the house. With integrated bus coupler. The physical address is programmed with a magnet.

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

Can be installed on walls and ceilings without additional accessories. Can be mounted on inner/outer corners and stationary pipes using a mounting bracket.
KNX software functions: Five movement blocks: up to four functions can be triggered per block. Telegrams: 1 bit, 1 byte, 2 bytes.
Normal operation, master, slave, safety pause, disable function. Sensitivity, brightness and staircase timer can be set using the ETS or the potentiometer. Self-adjusting staircase timer.
Angle of detection: 220°
Range: max. 16 m
Number of levels: 7
Number of zones: 112 with 448 switching segments
Light sensor: infinitely variable from approx. 3 - 1000 lux, ∞ lux (infinite: movement detection is independent of the position of the sensor head)
Time: can be set externally from 1 s to approx. 8 min. in 6 levels or via ETS from approx. 3 s to approx. 152 hours
Sensitivity: infinitely adjustable
Possible settings for sensor head:
Wall mounting: 9° up, 24° down, 12° left/right, ±12° axial
Ceiling mounting: 4° up, 29° down, 25° left/right, ±8.5° axial
EC directives: Low-voltage guideline 2006/95/EC and EMC directive 2004/108/EC
Type of protection: IP 55
Accessories: Mounting bracket MTN565291, Programming magnet MTN639190
Contents: With cover plate and segments to limit the area of detection, screws and plugs.

Movement detector

Movement detectors System M



KNX ARGUS 180, flush-mounted

Version	Art. no.
white, glossy	**MTN631644**
polar white, glossy	**MTN631619**
active white, glossy	**MTN631625**
anthracite	**MTN632614**
aluminium	**MTN632660**

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

KNX ARGUS 180/2.20 m flush-mounted

Version	Art. no.
white, glossy	**MTN631744**
polar white, glossy	**MTN631719**
active white, glossy	**MTN631725**
anthracite	**MTN632714**
aluminium	**MTN632760**

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

Movement detector

Movement detectors Artec/Trancent/Antique

KNX ARGUS 180, flush-mounted

Version		Art. no.
	white, glossy	**MTN631844**
☐	polar white, glossy	**MTN631819**
	aluminium	**MTN631860**
	varnished stain-less steel	**MTN631846**

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

Movement detector

Movement detectors Altira

KNX Movement detector 180

Version	Art. no.
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. Self-adjusting staircase timer.
Angle of detection: 180°
Number of movement sensors: 2, sector-orientated, adjustable (ETS)
Recommended mounting height: 1 m to 2,5 m
Range: at 2.15 m mounting height: Approx. 9 m on all sides, adjustable in 10 steps (rotary switch or ETS)
Detection brightness: Infinite setting from approx. 10 lux to approx.1000 lux (rotary switch) or from 10 lux to 2000 lux (ETS)
Overshoot time: Adjustable in 6 steps from approx. 1 s to approx. 8 min (rotary switch) or adjustable from 1 s to 255 hours (ETS)
EC guidelines: Low-voltage guideline 2006/95/EEC and EMC guideline 2004/108/EC
Contents: With bus connecting terminal.

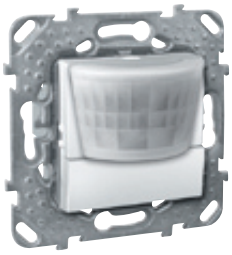
Movement detectors Unica

KNX Movement detector 180

Version	Art. no.
☐ 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. Self-adjusting staircase timer.
Angle of detection: 180°
Number of movement sensors: 2, sector-orientated, adjustable (ETS)
Recommended mounting height: 1 m to 2,5 m
Range: at 2.15 m mounting height: Approx. 9 m on all sides, adjustable in 10 steps (rotary switch or ETS)
Detection brightness: Infinite setting from approx. 10 lux to approx.1000 lux (rotary switch) or from 10 lux to 2000 lux (ETS)
Overshoot time: Adjustable in 6 steps from approx. 1 s to approx. 8 min (rotary switch) or adjustable from 1 s to 255 hours (ETS)
EC guidelines: Low-voltage guideline 2006/95/EEC and EMC guideline 2004/108/EC
Contents: With bus connecting terminal.

Movement detector



KNX Movement detector 180

Version		Art. no.
☐	white	**MGU5.533.18**
	ivory	**MGU5.533.25**

2 modules
In Unica design.
Movement detector for indoors.
When a movement is detected, a data telegram defined by the programming is transmitted.
With integrated bus coupler. The bus is connected using a bus connecting terminal.
KNX software functions: Five movement blocks: up to four functions can be triggered per block. Telegrams: 1 bit, 1 byte, 2 bytes.
Normal operation and surveillance operation, master, slave, safety pause, disable function.
Sensitivity, brightness and staircase timer can be set using the ETS or the potentiometer. Two movement sensors: the sensitivity and range can be set separately for each sensor. Self-adjusting staircase timer.
Angle of detection: 180°
Number of movement sensors: 2, sector-orientated, adjustable (ETS)
Recommended mounting height: 1 m to 2,5 m
Range: at 2.15 m mounting height: Approx. 9 m on all sides, adjustable in 10 steps (rotary switch or ETS)
Detection brightness: Infinite setting from approx. 10 lux to approx.1000 lux (rotary switch) or from 10 lux to 2000 lux (ETS)
Overshoot time: Adjustable in 6 steps from approx. 1 s to approx. 8 min (rotary switch) or adjustable from 1 s to 255 hours (ETS)
EC guidelines: Low-voltage guideline 2006/95/EEC and EMC guideline 2004/108/EC
Contents: With fixing frame.
With bus connecting terminal.

KNX Movement detector 180

Version		Art. no.
☐	white	**MGU50.533.18**
	ivory	**MGU50.533.25**

2 modules
In Unica design.
Movement detector for indoors.
When a movement is detected, a data telegram defined by the programming is transmitted.
With integrated bus coupler. The bus is connected using a bus connecting terminal.
KNX software functions: Five movement blocks: up to four functions can be triggered per block. Telegrams: 1 bit, 1 byte, 2 bytes.
Normal operation and surveillance operation, master, slave, safety pause, disable function.
Sensitivity, brightness and staircase timer can be set using the ETS or the potentiometer. Two movement sensors: the sensitivity and range can be set separately for each sensor. Self-adjusting staircase timer.
Angle of detection: 180°
Number of movement sensors: 2, sector-orientated, adjustable (ETS)
Recommended mounting height: 1 m to 2,5 m
Range: at 2.15 m mounting height: Approx. 9 m on all sides, adjustable in 10 steps (rotary switch or ETS)
Detection brightness: Infinite setting from approx. 10 lux to approx.1000 lux (rotary switch) or from 10 lux to 2000 lux (ETS)
Overshoot time: Adjustable in 6 steps from approx. 1 s to approx. 8 min (rotary switch) or adjustable from 1 s to 255 hours (ETS)
EC guidelines: Low-voltage guideline 2006/95/EEC and EMC guideline 2004/108/EC
Contents: With fixing frame and claws.
With bus connecting terminal.

Movement detector

Movement detectors Unica Top

KNX Movement detector 180

Version		Art. no.
■	aluminium	**MGU3.533.30**
■	graphite	**MGU3.533.12**

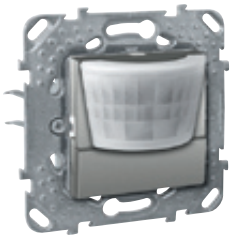
2 modules
In Unica Top design.
Movement detector for indoors.
When a movement is detected, a data telegram defined by the programming is transmitted.
With integrated bus coupler. The bus is connected using a bus connecting terminal.
KNX software functions: Five movement blocks: up to four functions can be triggered per block. Telegrams: 1 bit, 1 byte, 2 bytes.
Normal operation and surveillance operation, master, slave, safety pause, disable function.
Sensitivity, brightness and staircase timer can be set using the ETS or the potentiometer. Two movement sensors: the sensitivity and range can be set separately for each sensor. Self-adjusting staircase timer.
Angle of detection: 180°
Number of movement sensors: 2, sector-orientated, adjustable (ETS)
Recommended mounting height: 1 m to 2,5 m
Range: at 2.15 m mounting height: Approx. 9 m on all sides, adjustable in 10 steps (rotary switch or ETS)
Detection brightness: Infinite setting from approx. 10 lux to approx.1000 lux (rotary switch) or from 10 lux to 2000 lux (ETS)
Overshoot time: Adjustable in 6 steps from approx. 1 s to approx. 8 min (rotary switch) or adjustable from 1 s to 255 hours (ETS)
EC guidelines: Low-voltage guideline 2006/95/EEC and EMC guideline 2004/108/EC
Contents: With bus connecting terminal.

KNX Movement detector 180

Version		Art. no.
■	aluminium	**MGU5.533.30**
■	graphite	**MGU5.533.12**

2 modules
In Unica Top design.
Movement detector for indoors.
When a movement is detected, a data telegram defined by the programming is transmitted.
With integrated bus coupler. The bus is connected using a bus connecting terminal.
KNX software functions: Five movement blocks: up to four functions can be triggered per block. Telegrams: 1 bit, 1 byte, 2 bytes.
Normal operation and surveillance operation, master, slave, safety pause, disable function.
Sensitivity, brightness and staircase timer can be set using the ETS or the potentiometer. Two movement sensors: the sensitivity and range can be set separately for each sensor. Self-adjusting staircase timer.
Angle of detection: 180°
Number of movement sensors: 2, sector-orientated, adjustable (ETS)
Recommended mounting height: 1 m to 2,5 m
Range: at 2.15 m mounting height: Approx. 9 m on all sides, adjustable in 10 steps (rotary switch or ETS)
Detection brightness: Infinite setting from approx. 10 lux to approx.1000 lux (rotary switch) or from 10 lux to 2000 lux (ETS)
Overshoot time: Adjustable in 6 steps from approx. 1 s to approx. 8 min (rotary switch) or adjustable from 1 s to 255 hours (ETS)
EC guidelines: Low-voltage guideline 2006/95/EEC and EMC guideline 2004/108/EC
Contents: With fixing frame.
With bus connecting terminal.

Movement detector



KNX Movement detector 180

Version	Art. no.
aluminium	**MGU50.533.30**
graphite	**MGU50.533.12**

2 modules
In Unica Top design.
Movement detector for indoors.
When a movement is detected, a data telegram defined by the programming is transmitted.
With integrated bus coupler. The bus is connected using a bus connecting terminal.
KNX software functions: Five movement blocks: up to four functions can be triggered per block. Telegrams: 1 bit, 1 byte, 2 bytes.
Normal operation and surveillance operation, master, slave, safety pause, disable function.
Sensitivity, brightness and staircase timer can be set using the ETS or the potentiometer. Two movement sensors: the sensitivity and range can be set separately for each sensor. Self-adjusting staircase timer.
Angle of detection: 180°
Number of movement sensors: 2, sector-orientated, adjustable (ETS)
Recommended mounting height: 1 m to 2,5 m
Range: at 2.15 m mounting height: Approx. 9 m on all sides, adjustable in 10 steps (rotary switch or ETS)
Detection brightness: Infinite setting from approx. 10 lux to approx.1000 lux (rotary switch) or from 10 lux to 2000 lux (ETS)
Overshoot time: Adjustable in 6 steps from approx. 1 s to approx. 8 min (rotary switch) or adjustable from 1 s to 255 hours (ETS)
EC guidelines: Low-voltage guideline 2006/95/EEC and EMC guideline 2004/108/EC
Contents: With fixing frame and claws.
With bus connecting terminal.

Movement detector

KNX presence detector

KNX ARGUS Presence Basic

Version	Art. no.
polar white	**MTN630719**
aluminium	**MTN630760**

Presence detection indoors.
If KNX ARGUS Presence detects smaller movements in the room, data telegrams are transmitted via KNX to control the lighting, blind or heating at the same time.
When the lighting is controlled by brightness-dependent movement detection, the device constantly monitors the brightness in the room. If sufficient natural light is at hand, the device switches the artificial light off even if a person is present. The overshoot time can be adjusted using the ETS.
With integrated bus coupling unit. For ceiling mounting in a size 60 mounting box, optimal installation at 2.5 m. Can also be mounted to ceilings using the surface mounting housing for ARGUS Presence.
KNX software functions: Two movement/presence blocks: up to four functions can be triggered per block. Telegrams: 1 bit, 1 byte, 2 bytes.
Normal operation (no master/slave), safety pause, disable function. Self-adjusting staircase timer. Actual brightness value: can be specified via the internal and/or an external light sensor.
Angle of detection: 360°
Range: a radius of max. 7 m (at a mounting height of 2.50 m)
Number of levels: 6
Number of zones: 136 with 544 switching segments
Number of movement sensors: 4
Light sensor: internal light sensor infinitely adjustable from approx. 10 to 2000 Lux (ETS); external light sensor via KNX
EC Directives: Low-voltage guideline 2006/95/EC and EMC guideline 2004/108/EC
Accessories: Surface-mounted housing for ARGUS Presence MTN550619
Contents: With bus connecting terminal and supporting plate.

KNX ARGUS Presence

Version	Art. no.
aluminium	**MTN630860**
polar white	**MTN630819**

Presence detection indoors.
If KNX ARGUS Presence detects smaller movements in the room, data telegrams are transmitted via KNX to control the lighting, blind or heating at the same time.
When the lighting is controlled by brightness-dependent movement detection, the device constantly monitors the brightness in the room. If sufficient natural light is at hand, the device switches the artificial light off even if a person is present. The overshoot time can be adjusted using the ETS.
With integrated bus coupling unit. For ceiling mounting in a size 60 mounting box, optimal installation at 2.5 m. Can also be mounted to ceilings using the surface mounting housing for ARGUS Presence.
KNX software functions: Five movement/presence blocks: up to four functions can be triggered per block. Telegrams: 1 bit, 1 byte, 2 bytes.
Normal operation, master, slave, monitoring, safety pause, disable function. Four movement sensors: the sensitivity and range can be set separately for each sensor. Self-adjusting staircase timer. Actual brightness value: can be detected via the internal and/or an external light sensor. Actual value correction.
Angle of detection: 360°
Range: a radius of max. 7 m (at a mounting height of 2.50 m)
Number of levels: 6
Number of zones: 136 with 544 switching segments
Number of movement sensors: 4, separately adjustable
Light sensor: internal light sensor infinitely adjustable from approx. 10 to 2000 Lux (ETS); external light sensor via KNX
EC Directives: Low-voltage guideline 2006/95/EC and EMC guideline 2004/108/EC
Accessories: Surface-mounted housing for ARGUS Presence MTN550619
Contents: With bus connecting terminal and supporting plate.

Movement detector

KNX ARGUS Presence with light control and IR receiver

Version	Art. no.
polar white	**MTN630919**
aluminium	**MTN630960**

Presence detection indoors.
If KNX ARGUS Presence detects smaller movements in the room, data telegrams are transmitted via KNX to control the lighting, blind or heating at the same time.
When the lighting is controlled by brightness-dependent movement detection, the device constantly monitors the brightness in the room. If sufficient natural light is at hand, the device switches the artificial light off even if a person is present. The overshoot time can be adjusted using the ETS.
Light control enables the required brightness in a room to be achieved permanently. Dimming and the optional use of a second lighting group maintains a constant brightness.
Individual ARGUS Presence configurations can be changed or other KNX devices can be controlled remotely using the IR receiver.
With integrated bus coupling unit. For ceiling mounting in a size 60 mounting box, optimal installation at 2.5 m. Can also be mounted to ceilings using the surface mounting housing for ARGUS Presence.
KNX software functions: Five movement/presence blocks: up to four functions can be triggered per block. Telegrams: 1 bit, 1 byte, 2 bytes.
An additional light control block: brightness can be maintained constant by dimming and an additional adjustable level.
IR receiver function. IR configuration: setting the brightness threshold, staircase timer factors or range.
Normal operation, master, slave, monitoring, safety pause, disable function. Four movement sensors: the sensitivity and range can be set separately for each sensor. Self-adjusting staircase timer. Actual brightness value: can be detected via the internal and/or an external light sensor. Actual value correction.
Angle of detection: 360°
Range: a radius of max. 7 m (at a mounting height of 2.50 m)
Number of levels: 6
Number of zones: 136 with 544 switching segments
Number of movement sensors: 4, separately adjustable
Light sensor: internal light sensor infinitely adjustable from approx. 10 to 2000 Lux (ETS); external light sensor via KNX
Number of IR channels: 10 for controlling KNX devices, 10 for configuration
EC Directives: Low-voltage guideline 2006/95/EC and EMC guideline 2004/108/EC
Accessories: Surface-mounted housing for ARGUS Presence MTN550619
Transmitter: IR remote control Distance 2010 MTN570222
Contents: With bus connecting terminal and supporting plate.

Surface-mounted housing for ARGUS Presence

Version	Art. no.
polar white	**MTN550619**

The surface-mounted housing for ARGUS Presence devices also allows them to be surface mounted.
To be completed with: ARGUS Presence MTN550590, ARGUS Presence with IR receiver and for extension unit operation MTN550591, KNX ARGUS Presence Basic MTN6307.., KNX ARGUS Presence MTN6308.., KNX ARGUS Presence with light control and IR receiver MTN6309..

Movement detector

KNX ARGUS Presence 180/2.20 m flush-mounted

Version		Art. no.
	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.

Other sensors

Other sensors

KNX brightness and temperature sensor

Version	Art. no.
light grey	**MTN663991**

The sensor records brightness and temperature and transmits these values to the bus. It has a temperature sensor and a brightness sensor.

- 3 universal channels for single tasks or logic operations. Temperature and brightness threshold in any combination.
- Sun protection channel for blinds/roller shutter control. Objects for: twilight threshold, brightness threshold, drive control, automatic sun function, teaching, security.
- Automatic sun protection. Controls the blinds automatically during the day.
- Teaching object. With this, every brightness threshold can be reset by the touch of a key.

Suitable for mounting on an outside wall.

With integrated bus coupler. The bus is connected using a bus connecting terminal.
Power consumption: max. 150 mW
Sensors: 2
Temperature measurement range: - 25 °C to + 55 °C (±5 % or ±1 degree)
Brightness measurement range: 1 to 100,000 lux (±20% or ±5 lux)
Type of protection: IP 54 according to DIN EN 60529 for vertical installation with cover
Dimensions: 110 x 72 x 54 mm

KNX CO_2, humidity and temperature sensor AP

Version	Art. no.
	MTN6005-0001

The device is a combined sensor for CO_2, 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_2 content of the air is a verifiable indicator of the ambient air quality. The higher the CO_2 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_2 and relative humidity and a threshold for the temperature value. An action is carried out if the thresholds are not reached or if they are exceeded: Send priority. Switching, value. Each threshold has a locking object.
Power supply: bus voltage
Current consumption from bus: max. 10 mA
Ambient temperature: -5 °C ... +45 °C
Measuring range, CO2: 300 – 9999 ppm
Measuring range, temperature: 0 °C ... +40 °C
Measuring range, humidity: linear 20 % ... 100 %
Type of protection: IP 20 in accordance with DIN EN 60529
Dimensions: 74x74x31 mm

Other sensors

KNX Basic weather station

Version	Art. no.
polar white	**MTN663990**

The KNX Basic weather station records weather data, analyses these and can transmit them to the bus. The device has a wind sensor, precipitation sensor, temperature sensor and brightness sensor.

- Wind, brightness and temperature are each sent as a 2-byte value, rain as 1-byte. Wind can be sent either in m/s or km/h.
- 4 universal channels for single tasks or logic operations. Four logic functions per channel are possible.
- 3 sun protection channels for external blinds/roller shutter control. For example, this makes sun protection for up to three facades possible. Objects for: twilight threshold, brightness threshold, drive control, automatic sun function, teaching, security.
- Automatic sun protection. Controls the blinds automatically during the day.
- Teaching object. With this, every brightness threshold can be reset by the touch of a key.
- Integrated heating for rain sensor.

Suitable for mounting on an outside wall or with optional accessories on a corner or on a mast.

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

An additional AC 230 V power supply is required for the heating unit.
Power supply: AC 230 V
Power consumption: max. 10 mA with bus voltage
Power consumption: 10 W with heating
Sensors: 4
Measuring range: - 20 °C to + 55 °C
Brightness range: 1 to 100,000 lux
Angle of detection: 150°
Type of protection: IP 44 per EN 60529
Dimensions: 280 x 160 x 135 mm
Accessories: Mast and corner fastening for KNX Basic weather station MTN663992

Mast and corner fastening for KNX Basic weather station

Version	Art. no.
	MTN663992

To be completed with: KNX Basic weather station MTN663990

Other sensors

Weather station REG-K/4-gang

Version	Art. no.
light grey	**MTN682991**

The weather station records and processes analogue sensor signals such as wind speed, brightness, twilight, precipitation and a DCF-77 signal. Up to four analogue sensors and the DCF-77 weather combi-sensor can be connected in any combination.
In connection with the 4-gang analogue input module, 8 analogue inputs are available, to which the connection is made using the sub-bus.
If DCF-77 weather combi-sensors are used, it is possible to access a pre-configured setting in the software.

The measured values are converted by the weather station into 1 byte / 2 byte telegrams (EIS 6/5 value). This enables bus devices (visualisation software, measured value displays) to access the control processes, generate signals or control weather-dependent processes. Programming is performed using the ETS tool for the weather station.

- Two limit values per sensor (not for rain)
- Connection of multiple wind sensors
- 14 signals can be evaluated
- Evaluation of DCF-77 time signal (date and time)
- Astro function
- Logic operation controller for application of limit-value-dependent actions (even external)
- Shading of individual façade segments
- Signal monitoring of the combi-sensors with object for the following protective measures
- Checking the wind signal for conclusiveness with object for the following protective measures
- Selective façade shading (for 4 façades) with adjustment of the basic brightness, façade alignment, angle of opening relative to the sun.
- External objects for intervention in basic brightness, angle of opening and limit values
- Alarm byte
- Continuity monitoring with report on the bus

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
Auxiliary voltage: AC 24 V (+/-10 %)
Analogue inputs: 4
Current interface: 0 ... 20 mA, 4 ... 20 mA
Voltage interface: 0 ... 1 V, 0 ... 10 V
Outputs: DC 24 V, 100 mA
Device width: 4 modules = approx. 72 mm
In KNX, to be completed with: Power supply REG, AC 24 V/1 A MTN663529
Accessories: Analogue input module REG/4-gang MTN682192, Weather combi-sensor DCF-77 MTN663692, Wind sensor with 0-10 V interface MTN663591, Wind sensor with 0-10 V interface and heating MTN663592, Rain sensor MTN663595, Brightness sensor MTN663593, Twilight sensor MTN663594, Temperature sensor MTN663596
Contents: With bus connecting terminal and cable cover.

Other sensors

Weather combi-sensor DCF-77

Version	Art. no.
black	**MTN663692**

The weather combi-sensor includes a wind sensor, precipitation sensor, twilight sensor and three brightness sensors (East, South, West). With integral DCF77 receiver, antenna rotatable through 45° and integrated heater (protection against thawing and condensation). Suitable for external installation on a wall or a pole. The sensor is connected to an REG-K 4-gang weather station. The weather data is evaluated in the weather station. The necessary power supplies are provided by the weather station with connected power supply REG.
Power supply: AC 24 V (+/- 15 %)
Power consumption: max. 600 mA (with heating)
Sensors: 6
Wind speed: 1 ... 40 m/s (≤ 0.5 m/s)
Brightness: 0 ... 110 klux (+/- 10 %)
Twilight 0 ... 250 lux
Type of protection: IP 65 when installed
Temperature range: - 40 °C ... + 60 °C (non-icing)
Fixing method: Mounting bracket
Dimensions: 130x200 mm (ØxH)
In KNX, to be completed with: Weather station REG-K/4-gang MTN682991

Wind sensor with 0-10 V interface

Version	Art. no.
polar white	**MTN663591**

The wind sensor evaluates the wind speed and converts it into an analogue 0-10 V output voltage.
For external installation and connection to the weather station REG-K/4-gang or the analogue input REG-K/4-gang. These two devices provide the supply voltage necessary to operate the sensor.
Measuring range: 0.7 ... 40 m/s, linear
Output: 0 ... 10 V
External power supply:
Voltage: 24 V DC (18-32 V DC)
Power consumption: approx. 12 mA
General specifications:
Type of protection: IP 65
Load: max. 60 m/s transient
Incoming cable: 3 m, LiYY 6 x 0.25 mm^2
Fixing method: Mounting bracket
Mounting position: vertical
In KNX, to be completed with: Weather station REG-K/4-gang MTN682991, Analogue input REG-K 4-gang MTN682191, Analogue input module REG/4-gang MTN682192
Contents: With mounting bracket.

Wind sensor with 0-10 V interface and heating

Version	Art. no.
polar white	**MTN663592**

The wind sensor evaluates the wind speed and converts it into an analogue 0-10 V output voltage. The integrated heater can be operated via an external power supply of AC 24 V/500 mA for trouble-free operation in frosty weather.
For external installation and connection to the weather station REG-K/4-gang or the analogue input REG-K/4-gang. These two devices provide the supply voltage necessary to operate the sensor.
Measuring range: 0.7 ... 40 m/s, linear
Output: 0 ... 10 V
External power supply:
Voltage: 24 V DC (18-32 V DC)
Power consumption: approx. 12 mA
Heating: 24 V DC/AC PTC element (80° C)
General specifications:
Type of protection: IP 65
Load: max. 60 m/s transient
Incoming cable: 3 m, LiYY 6 x 0.25 mm^2
Fixing method: Mounting bracket
Mounting position: vertical
In KNX, to be completed with: Weather station REG-K/4-gang MTN682991, Analogue input REG-K 4-gang MTN682191, Analogue input module REG/4-gang MTN682192
Accessories: Power supply REG, AC 24 V/1 A MTN663529
Contents: With mounting bracket.

Other sensors

Rain sensor

IP65

Version	Art. no.
	MTN663595

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^2
Fixing method: Mounting bracket
Mounting position: approx. 45°
In KNX, to be completed with: Weather station REG-K/4-gang MTN682991, Analogue input REG-K 4-gang MTN682191, Analogue input module REG/4-gang MTN682192
Accessories: Power supply REG, AC 24 V/1 A MTN663529
Contents: With holder for installing the sensor on walls and masts.

Temperature sensor

IP65

Version	Art. no.
light grey	**MTN663596**

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^2
Type of protection: IP 65
Dimensions: 58 x 35 x 64 (W x H x D)
In KNX, to be completed with: Weather station REG-K/4-gang MTN682991, Analogue input REG-K 4-gang MTN682191, Analogue input module REG/4-gang MTN682192

Other sensors

Brightness sensor

IP65

Version	Art. no.
light grey	**MTN663593**

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^2
Type of protection: IP 65
Dimensions: 58 x 35 x 64 (W x H x D)
In KNX, to be completed with: Weather station REG-K/4-gang MTN682991, Analogue input REG-K 4-gang MTN682191, Analogue input module REG/4-gang MTN682192

Twilight sensor

IP65

Version	Art. no.
light grey	**MTN663594**

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^2
Type of protection: IP 65
Dimensions: 58 x 35 x 64 (W x H xD)
In KNX, to be completed with: Weather station REG-K/4-gang MTN682991, Analogue input REG-K 4-gang MTN682191, Analogue input module REG/4-gang MTN682192

Analogue input REG-K 4-gang

Version	Art. no.
light grey	**MTN682191**

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; a data rail is not necessary.
Auxiliary voltage: AC 24 V (+/-10 %)
Analogue inputs: 4
Current interface: 0 ... 20 mA, 4 ... 20 mA
Voltage interface: 0 ... 1 V, 0 ... 10 V
Outputs: DC 24 V, 100 mA
Continuity checking: 4 ... 20 mA
Device width: 4 modules = approx. 72 mm
In KNX, to be completed with: Power supply REG, AC 24 V/1 A MTN663529
Accessories: Analogue input module REG/4-gang MTN682192, Wind sensor with 0-10 V interface MTN663591, Wind sensor with 0-10 V interface and heating MTN663592, Rain sensor MTN663595, Brightness sensor MTN663593, Twilight sensor MTN663594, Temperature sensor MTN663596
Contents: With bus connecting terminal and cable cover.

Analogue input module REG/4-gang

Version	Art. no.
light grey	**MTN682192**

Extension module to extend weather station REG-K/4-gang and analogue input REG-K/4-gang from 4 to 8 analogue outputs. Connections are made using the sub-bus. Up to four analogue sensors can be connected in any combination.
Evaluation and limit value processing is performed in the analogue input or weather station. With continuity checking of the 4 ... 20 mA inputs.
For installation on DIN rails TH35 according to EN 60715.
Auxiliary voltage: AC 24 V (+/-10 %)
Rating: max. 4 VA
Analogue inputs: 4
Current interface: 0 ... 20 mA, 4 ... 20 mA
Voltage interface: 0 ... 1 V, 0 ... 10 V (DC)
A/D conversion: 14 bit
Outputs: DC 24 V, 100 mA
Continuity checking: 4 ... 20 mA
Device width: 4 modules = approx. 72 mm
In KNX, to be completed with: Weather station REG-K/4-gang MTN682991, Analogue input REG-K 4-gang MTN682191, Power supply REG, AC 24 V/1 A MTN663529
Accessories: Wind sensor with 0-10 V interface MTN663591, Wind sensor with 0-10 V interface and heating MTN663592, Rain sensor MTN663595, Brightness sensor MTN663593, Twilight sensor MTN663594, Temperature sensor MTN663596
Contents: With sub-bus jumper.

Other sensors

Time switch

Year time switch REG-K/4/324

Version	Art. no.
light grey	**MTN677129**

Quartz-controlled four-channel year time switch. The device can be programmed manually on the device itself or on the PC using the software.
After programming on the PC, all switching times are exported to a memory chip available as an accessory, and transmitted from this into one or more time switches.

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

With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Switching. Dimming. Send time and date. Scene. Priority.
Operating voltage: Bus, DC 24 V
Accuracy: ≤ ±1 s/day
Reserve power: 1.5 years at full operability. Data backup in disconnected state approx. 40 years (EEPROM)
Type of protection: IP 20
Device width: 6 modules = approx. 105 mm
Accessories: OBELISK software MTN615034, Memory chip for year time switches MTN668092

Other sensors

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

Version	Art. no.
light grey	**MTN677029**

4-channel year time switch with power supply unit and integrated DCF receiver. To be completed with the DCF-77 antenna for radio-controlled time synchronisation. Time and date can be issued on the bus. The device can be programmed manually on the device itself or on the PC using the software.
After programming on the PC, all switching times are exported to a memory chip available as an accessory, and transmitted from this into one or more time switches.

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

With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Switching. Dimming. Send time and date. Scene. Priority.
Operating voltage: Bus, DC 24 V
AC 230 V ±10%, 50-60 Hz for antenna
Accuracy: ≤ ±1s/day
Reserve power: 1.5 years at full operability. Data backup in disconnected state
approx. 40 years (EEPROM)
Type of protection: IP 20
Device width: 6 modules = approx. 105 mm
In KNX, to be completed with: DCF77 antenna MTN668091
Accessories: OBELISK software MTN615034, Memory chip for year time switches MTN668092

KNX timer REG-K

Version	Art. no.
light grey	**MTN677290**

The timer sends time and date to the bus and can be operated with or without a DCF77 antenna.

- Automatic changeover between summer and winter time (can be switched off)
- Own adjustable changeover rule
- The data can be sent periodically or on request
- Lithium cell: time stays the same in the event of loss of bus power

For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
Accuracy: 1 s/day, the application allows additional adjustment
Reserve power: 10 years
Antenna line length: max. 100 m
Type of protection: IP 20
EC directives: Low-voltage guideline 2006/95/EC and EMC directive 2004/108/EC
Device width: 2 modules = approx. 36 mm
Accessories: DCF77 antenna MTN668091

Other sensors

DCF77 antenna

Version	Art. no.
light grey	**MTN668091**

Antenna for receiving the time by radio signal. The antenna should be connected to a year time switch REG-K/4/324 DCF-77.
Type of protection: IP 54
In KNX, to be completed with: Year time switch REG-K/4/324 DCF-77 MTN677029, KNX timer REG-K MTN677290
Contents: With mounting bracket.

OBELISK software

Version	Art. no.
	MTN615034

Software for convenient entry of the switching times for the year time switches REG-K/4/324 on a PC. With adapter for the serial interface to load the program to the memory chip.
System requirements:
IBM-compatible, 386 or higher, Windows 95, 98
In KNX, to be completed with: Year time switch REG-K/4/324 MTN677129, Year time switch REG-K/4/324 DCF-77 MTN677029
Accessories: Memory chip for year time switches MTN668092
Contents: With adapter and a memory chip.

Memory chip for year time switches

Version	Art. no.
	MTN668092

EEPROM memory chip for 324 switching times for programming the year time switch REG K/4/324. The program which is created with the software is loaded into the memory chip and can then be imported into one or several year time switches.
In KNX, to be completed with: Year time switch REG-K/4/324 MTN677129, Year time switch REG-K/4/324 DCF-77 MTN677029, OBELISK software MTN615034

Other sensors

KNX
Overview rail mounted devices switch actuators

	Switch actuator REG-K/8x230/6	Switch actuator REG-K/x230/10 with manual mode			
					
Article number	**MTN646808**	**MTN649202**	**MTN649204**	**MTN649208**	**MTN649212**
Number of switch contacts	8	2	4	8	12
Device width	4 modules	2.5 modules	4 modules	4 modules	6 modules
Manual mode ■ Mechanical ■ Electrical ■ Reset by manual mode triggered actions	 — — —	 — ■ (lockable) —			
Connecting terminal (consumer load)	Plug-in screw terminals	Plug-in screw terminals			
Nominal voltage, AC, 50-60 Hz	AC 230 V	AC 230 V			
Nominal current	6 A, cosφ = 0.6	10 A, cosφ = 1 / 10 A, cosφ = 0.6			
Connection power max. at AC 230 V ■ Incandescent lamps ■ Halogen lamps ■ Capacitive load ■ Fluorescent lamps	 1380 W 1380 W 105 µF 1000 VA	 2000 W 1700 W 105 µF 1800 W uncompensated, 1000 W parallel-compensated			
DC power supply	not allowed	not allowed			
Software					
ON/OFF delay	■	■			
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	 ■ ■ — — — — ■	 ■ ■ — — — — ■			
Flashing	■	—			
Make/Break contact adjustable	■	■			
Changeover contact adjustable	■	—			
Status/Status feedback ■ Active ■ Passive ■ Manual mode: Identify and acknowledge / Reset ■ Delayed per device / Delayed per channel	 ■ ■ — / — — / —	 ■ ■ ■ / — — / —			
Behaviour of bus voltage failure / bus voltage recovery	■ / ■	■ / ■			
Scenes ■ Sending delay	8 —	5 —			
Higher priority functions	■ Disable function ■ Logic function or priority function	■ Disable function ■ Logic 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	■ — / — / — / — / —	■ — / — / — / — / —			
Central function ■ Time delay / Save changes	■ — / —	■ — / —			
Safety function	—	—			
Line monitoring (sending live signal)	—	—			
Current detection ■ AC/DC ■ Display energy consumption* ■ Several limit monitorings ■ Switch counter ■ Hours counter ■ Combined counter (Switch and hour counter with limit monitoring)	 — — — — — —	 — — — — — —			

*Approximated value with parameterized voltage; current is sampled

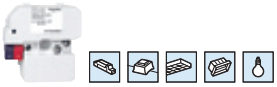
	Switch actuator REG-K/x230/16 with manual mode				Switch actuator REG-K/x230/16 with manual mode and current detection				Blind/switch actuator REG-K/x/x/10 with manual mode	
										
	MTN647393	**MTN647593**	**MTN647893**	**MTN648493**	**MTN647395**	**MTN647595**	**MTN647895**	**MTN648495**	**MTN649908**	**MTN649912**
	2	4	8	12	2	4	8	12	16	24
	2.5 modules	4 modules	8 modules	12 modules	2.5 modules	4 modules	8 modules	12 modules	8 TE	12 TE
	■ — —				■ — ■				— ■ (lockable) —	
	Screw terminals				Screw terminals				Plug-in screw terminals	
	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	
	16 A, cosφ = 0.6				16 A, cosφ = 0.6				10 A, cosφ = 0,6	
	3600 W 2500 W 200 µF 2500 VA				3600 W 2500 W 200 µF 2500 VA				2000 W 1700 W 105 µF 1800 W uncompensated, 1000 W parallel-compensated	
	not allowed				Purely resistive loads allowed, DC 12-24 V, +10 %, 0,1 - 16 A				not allowed	
	■				■				■	
	■ ■ — — — — ■				■ ■ ■ ■ ■ ■ ■				■ ■ — — — — ■	
	■				■				—	
	■				■				■	
	■				—				—	
	■ ■ — / — — / —				■ ■ ■ / ■ ■ / ■				■ ■ ■ / — — / ■	
	■ / ■				■ / ■				■ / ■	
	8 —				8 ■				5 —	
	■ Disable function ■ Logic function or priority function				■ Logic function ■ Disable function or priority function				■ Disable function ■ Logic function or priority function	
	■				■				■	
	■ — / — / — / — / —				■ ■ / ■ / ■ / ■ / ■				■ — / — / — / — / —	
	■ — / —				■ ■ / ■				■ — / —	
	—				■				—	
	—				■				—	
	— — — — — —				■ ■ ■ ■ ■ ■				— — — — — —	

	Switch actuator REG-K/8x230/6	Switch actuator REG-K/x230/10 with manual mode			
					
Article number	**MTN646808**	**MTN649202**	**MTN649204**	**MTN649208**	**MTN649212**
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 actuator REG-K/x230/16 with manual mode				Switch actuator REG-K/x230/16 with manual mode and current detection				Blind/switch actuator REG-K/x/x/10 with manual mode	
										
	MTN647393	MTN647593	MTN647893	MTN648493	MTN647395	MTN647595	MTN647895	MTN648495	MTN649908	MTN649912
	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	■	■	■	■	—	—
	—	—	—	—	■	■	■	■	—	—
	—	—	—	—	■	■	■	■	—	—
	—	—	—	—	■	■	■	■	—	—
	—	—	—	—	■	■	■	■	—	—
	— / —	— / —	— / —	— / —	■ / ■	■ / ■	■ / ■	■ / ■	— / —	— / —
	— / —	— / —	— / —	— / —	■ / ■	■ / ■	■ / ■	■ / ■	— / —	— / —
	— / —	— / —	— / —	— / —	■ / ■	■ / ■	■ / ■	■ / ■	— / —	— / —

Switch actuators

Switch actuator, flush-mounted/230/16



Version	Art. no.
polar white	**MTN629993**

For switching a load via a make contact. With integrated bus coupler and screw terminals. The device is connected to the bus with a bus connecting terminal. The actuator can be built into a 47 mm ceiling socket with hook or a flush-mounted switch box.
KNX software functions: Operation as break or make contact, delay functions for each channel, staircase lighting function with/without manual OFF function, cut-out warning for staircase lighting function, blocking and additional logic operation or priority control, scenes, status feedback function per channel, central function, comprehensive parameterisation for bus voltage failure and recovery, parameterisable download behaviour.
Nominal voltage: AC 100-240 V ±10%
Operating voltage: min. AC 90 V - max. AC 265 V
Mains frequency: 50-60 Hz ±10%
Nominal current: 16 A, ohmic load cosφ = 1
10 A, inductive load cosφ = 0,6
Nominal load
Incandescent lamps: AC 100 V, max. 1173 W
AC 230 V, max. 2700 W
AC 240 V, max. 2817 W
Halogen lamps: AC 100 V, max. 739 W
AC 230 V, max. 1700 W
AC 240 V, max. 1773 W
Fluorescent lamps: AC 100 V, max. 434 VA
AC 230 V, max. 1000 VA
AC 240 V, max. 1043 VA
parallel-compensated
Capacitive load: AC 230 V, 10 A, max. 105 µF
Dimensions: 51x52x29 mm (WxHxD)
Contents: With bus connecting terminal.

Switch actuators

KNX switch actuator 16 A FM with 2 inputs

Version	Art. no.
	MTN6003-0001

1-gang switch actuator with two inputs for installation in a size 60 switch box or ceiling socket-outlet with hook. Floating contacts can be connected to the two inputs.
The first input is assigned to the actuator at the factory, enabling operation without programming. Connection to 230 V via a flexible cable, approx. 20 cm long. The inputs and the KNX are connected via a 6-core, approx. 30 cm long, connecting cable. The connecting cable for the inputs can be extended to a max. of 5 m.
KNX software functions: Switch actuator functions:
Operation as break contact or make contact. Selection of default position on bus voltage failure/recovery. Switch on and/or off delay. Time switch function. Switching. Status feedback. Logic operation. Disable function or priority control. Status feedback object can be inverted.
Input function:
Free assignment of the switching, dimming, blind and valuator functions. Locking object. Behaviour when bus voltage recovers.
Switching: two switch objects per input. Command on rising/falling edge (ON, OFF, TOGGLE, no reaction).
Dimming: Single surface and dual-surface operation. Time between dimming and switching and dim step values. Telegram repetition and send stop telegram.
Blinds: Command on rising edge (none, UP, DOWN, TOGGLE), Operation concept (Step - Move - Step or Move - Step). Time between short and long operation. Slat adjustment time.
Valuator and lightscene ext. input: Edge (push-button as make contact, push-button as break contact, switch) and value on edge. Value adjustment via long push-button action for valuator. Lightscene ext. unit with memory function.
Nominal voltage: AC 230 V
Nominal current: 16 A, ohmic load
Switch contact: Make contact, floating relay contact
Nominal output
Incandescent lamps: AC 230 V, max. 2500 W
Halogen lamps: AC 230 V, max. 2200 W
LV halogen lamps: max. 1000 VA, wound transformer
max. 1000 W, electronic transformers
Capacitive load: AC 230 V, 10 A, max. 105 µF
Inputs: 2
Temperature range: -5 °C to 45 °C
Type of protection: IP 20
Dimensions: 53x53x28 (WxHxD)
Note: For installation in a double box or an electronic box (Kaiser). There must be a minimum gap of 4mm between the 230V connection and the connection for the KNX/Inputs (SELV)

Switch actuators

2-gang KNX switch actuator 6 A FM with 2 inputs

Version	Art. no.
	MTN6003-0002

2-gang switch actuator with two inputs for installation in a size 60 switch box. Floating contacts can be connected to the two inputs.
The inputs have already been assigned to the corresponding actuators at the factory, enabling operation without programming.
Connection to 230 V via a flexible cable, approx. 20 cm long. The inputs and the KNX are connected via a 6-core, approx. 30 cm long, connecting cable. The connecting cable for the inputs can be extended to a max. of 5 m.
KNX software functions: Switch actuator functions:
Operation as break contact or make contact. Selection of default position on bus voltage failure/recovery. Switch on and/or off delay. Time switch function. Switching. Status feedback. Logic operation. Disable function or priority control. Status feedback object can be inverted.
Input function:
Free assignment of the switching, dimming, blind and valuator functions. Locking object. Behaviour when bus voltage recovers.
Switching: two switch objects per input. Command on rising/falling edge (ON, OFF, TOGGLE, no reaction).
Dimming: Single surface and dual-surface operation. Time between dimming and switching and dim step values. Telegram repetition and send stop telegram.
Blinds: Command on rising edge (none, UP, DOWN, TOGGLE), Operation concept (Step - Move - Step or Move - Step). Time between short and long operation. Slat adjustment time.
Valuator and Scene ext. input: Edge (push-button as make contact, push-button as break contact, switch) and value on edge. Value adjustment via long push-button action for valuator. Scene ext. unit with memory function.
Nominal voltage: AC 230 V
Nominal current: 6 A, ohmic load
Switch contacts: 2x make contacts
Nominal output
Incandescent lamps: AC 230 V, max. 1200 W
Halogen lamps: AC 230 V, max. 1200 W
LV halogen lamps: max. 500 VA, wound transformer
max. 500 W, electronic transformers
Capacitive load: AC 230 V, 6 A, max. 14 µF
Inputs: 2
Temperature range: -5 °C to 45 °C
Type of protection: IP 20
Dimensions: 53x53x28 (WxHxD)
Note: For installation in a double box or an electronic box (Kaiser). There must be a minimum gap of 4mm between the 230V connection and the connection for the KNX/Inputs (SELV)

Switch actuators

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

Version	Art. no.
light grey	**MTN649202**

For independent switching of up to 2 loads via make contacts. The function of the switching channels is freely configurable. All switching outlets can be operated manually using push-button operation.
Channel status display via LEDs. A green LED indicates readiness for operation.
With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Operation as break contact/make contact. Programmable behaviour for download. Delay functions for each channel. Staircase lighting function with/without manual OFF function. Cut-out warning for staircase lighting function. Scenes. Central function. Disable function. Logic operation or priority control. Status feedback function for each channel.
Power supply:
Nominal voltage: AC 230 V, 50-60 Hz
For each switch output:
Nominal current: 10 A, cosφ = 1; 10 A, cosφ = 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.

Switch actuator REG-K/2x230/16 with manual mode

Version	Art. no.
light grey	**MTN647393**

For independent switching of two loads via make contacts. With integrated bus coupler and screw terminals. The 230 V switch output can be operated with a manual switch.
A green LED indicates readiness for operation after the application has been loaded.
For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Operation as break or make contact, delay functions for each channel, staircase lighting function with/without manual OFF function, cut-out warning for staircase lighting function, blocking and additional logic operation or priority control, scenes, status feedback function per channel, central function, comprehensive parameterisation for bus voltage failure and recovery, parameterisable download behaviour.
Nominal voltage: AC 100-240 V ±10%
Operating voltage: min. AC 90 V - max. AC 265 V
Mains frequency: 50-60 Hz ±10%
For each switching contact:
Nominal current: 16 A, inductive load cosφ = 0,6
Nominal load
Incandescent lamps: AC 100 V, max. 1600 W
AC 230 V, max. 3600 W
AC 240 V, max. 3840 W
Halogen lamps: AC 100 V, max. 1086 W
AC 230 V, max. 2500 W
AC 240 V, max. 2608 W
Fluorescent lamps: AC 100 V, max. 1086 VA
AC 230 V, max. 2500 VA
AC 240 V, max. 2608 VA
parallel-compensated
Capacitive load: AC 230 V, 16 A, max. 200 µF
Device width: 2.5 modules = approx. 45 mm
Contents: With bus connecting terminal and cable cover.

Switch actuators

Switch actuator REG-K/2x230/16 with manual mode and current detection

Version	Art. no.
light grey	**MTN647395**

For independent switching of two loads via make contacts. The actuator has integrated current detection that measures the load current on each channel. All 230 V switch outputs can be operated with manual switches. With integrated bus coupling unit.
A green LED indicates that the device is ready for operation once the application has been loaded. The load is connected with screw terminals.
For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Operation as break contact or make contact. Staircase lighting function with/without manual OFF function and switch-off warning. Delay functions. Scenes. Logic function. Blocking or priority control. Feedback function. Status. Central function with delay. Parameterisation for bus voltage failure and recovery. Behaviour for download.
Current detection function: Behaviour when value exceeds/falls short of the threshold value. Energy, operating and switch on counter with limit value monitoring.
Flash function.
For alternating current (AC) per channel:
Nominal voltage: AC 100-240 V ±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 230 V, 16 A, max. 200 µF
Motor load: AC 100 V, max. 434 W
AC 230 V, max. 1000 W
AC 240 V, max. 1043 W
For direct current (DC) per channel:
Nominal voltage: DC 12-24 V, 0.1-16 A
Nominal current: 16 A

Current detection (load current):
Detection range: 0.1 A to 16 A (sine effective value or DC)
Sensing accuracy: +/- 8% of the current value at hand (sine) and +/- 100 mA
Frequency: 50/60 Hz, for alternating current (AC)
Description: 100 mA
Device width: 2.5 modules = approx. 45 mm
Contents: With bus connecting terminal and cable cover.

Switch actuators

Switch actuator REG-K/4x230/10 with manual mode

Version	Art. no.
light grey	**MTN649204**

For independent switching of up to 4 loads via make contacts. The function of the switching channels is freely configurable. All switching outlets can be operated manually using push-button operation.
Channel status display via LEDs. A green LED indicates readiness for operation.
With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Operation as break contact/make contact. Programmable behaviour for download. Delay functions for each channel. Staircase lighting function with/without manual OFF function. Cut-out warning for staircase lighting function. Scenes. Central function. Disable function. Logic operation or priority control. Status feedback function for each channel.
Power supply:
Nominal voltage: AC 230 V, 50-60 Hz
For each switch output:
Nominal current: 10 A, cosφ = 1; 10 A, cosφ = 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.

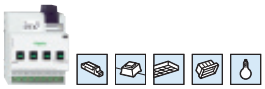
Switch actuator REG-K/4x230/16 with manual mode

Version	Art. no.
light grey	**MTN647593**

For independent switching of four loads via make contacts. With integrated bus coupler 2 and screw terminals. The 230 V switch output can be operated with a manual switch.
A green LED indicates readiness for operation after the application has been loaded.
For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Operation as break or make contact, delay functions for each channel, staircase lighting function with/without manual OFF function, cut-out warning for staircase lighting function, blocking and additional logic operation or priority control, scenes, status feedback function per channel, central function, comprehensive parameterisation for bus voltage failure and recovery, parameterisable download behaviour.
Nominal voltage: AC 230 V, 50-60 Hz
For each switching contact:
Nominal current: 16 A, cosφ = 0,6
Incandescent lamps: AC 230 V, max. 3600 W
Halogen lamps: AC 230 V, max. 2500 W
Fluorescent lamps: AC 230 V, max. 2500 VA
Capacitive load: AC 230 V, 16 A, max. 200 µF
Device width: 4 modules = approx. 72 mm
Contents: With bus connecting terminal and cable cover.

Switch actuators

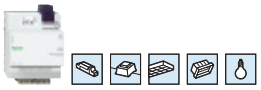
Switch actuator REG-K/4x230/16 with manual mode and current detection



Version	Art. no.
light grey	**MTN647595**

For independent switching of four loads via make contacts. The actuator has integrated current detection that measures the load current on each channel. All 230 V switch outputs can be operated with manual switches. With integrated bus coupling unit.
A green LED indicates that the device is ready for operation once the application has been loaded. The load is connected with screw terminals.
For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Operation as break contact or make contact. Staircase lighting function with/without manual OFF function and switch-off warning. Delay functions. Scenes. Logic function. Blocking or priority control. Feedback function. Status. Central function with delay. Parameterisation for bus voltage failure and recovery. Behaviour for download.
Current detection function: Behaviour when value exceeds/falls short of the threshold value. Energy, operating and switch on counter with limit value monitoring.
Flash function.
Nominal voltage: AC 230 V, 50 - 60 Hz
Per switching contact:
Nominal current: 16 A, $\cos\varphi = 0.6$
Incandescent lamps: AC 230 V, max. 3600 W
Halogen lamps: AC 230 V, max. 2500 W
Fluorescent lamps: AC 230 V, max. 2500 VA, with parallel compensation
Capacitive load: AC 230 V, 16 A, max. 200 µF
Motor load: AC 230 V, max. 1000 W
Current detection load current:
Detection range: 0.1 A to 16 A (sine effective value or DC)
Sensing accuracy: +/- 8% of the current value at hand (sine) and +/- 100 mA
Frequency: 50/60 Hz
Description: 100 mA
Device width: 4 modules = approx. 72 mm
Contents: With bus connecting terminal and cable cover.

Switch actuator REG-K/8x230/6

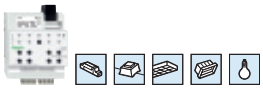


Version	Art. no.
light grey	**MTN646808**

For independent switching of eight loads via make contacts. With integrated bus coupler and plug-in screw terminals.
A green LED indicates readiness for operation after the application has been loaded.
For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Operation as break or make contact, delay functions for each channel, staircase lighting function with/without manual OFF function, cut-out warning for staircase lighting function, blocking and additional logic operation or priority control, scenes, status feedback function per channel, central function, comprehensive parameterisation for bus voltage failure and recovery, parameterisable download behaviour.
Nominal voltage: AC 230 V, 50-60 Hz
For each switching contact:
Nominal current: 6 A, $\cos\varphi = 0.6$
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 actuators

Switch actuator REG-K/8x230/10 with manual mode



Version	Art. no.
light grey	**MTN649208**

For independent switching of up to 8 loads via make contacts. The function of the switching channels is freely configurable. All switching outlets can be operated manually using push-button operation.
Channel status display via LEDs. A green LED indicates readiness for operation.
With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Operation as break contact/make contact. Programmable behaviour for download. Delay functions for each channel. Staircase lighting function with/without manual OFF function. Cut-out warning for staircase lighting function. Scenes. Central function. Disable function. Logic operation or priority control. Status feedback function for each channel.
Power supply:
Nominal voltage: AC 230 V, 50-60 Hz
For each switch output:
Nominal current: 10 A, cosφ = 1; 10 A, cosφ = 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.

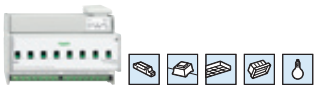
Switch actuator REG-K/8x230/16 with manual mode

Version	Art. no.
light grey	**MTN647893**

For independent switching of 8 loads via make contacts. All 230 V switch outputs can be operated with manual switches. With integrated bus coupler.
The device is connected to the mains via screw terminals; every second L connection is bridged internally. A green LED indicates readiness for operation after the application has been loaded. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Operation as break or make contact, delay functions for each channel, staircase lighting function with/without manual OFF function, cut-out warning for staircase lighting function, blocking and additional logic operation or priority control, scenes, status feedback function per channel, central function, comprehensive parameterisation for bus voltage failure and recovery, parameterisable download behaviour.
Nominal voltage: AC 100-240 V ±10%
Operating voltage: min. AC 90 V - max. AC 265 V
Mains frequency: 50-60 Hz ±10%
For each switching contact:
Nominal current: 16 A, inductive load cosφ = 0,6
Nominal load
Incandescent lamps: AC 100 V, max. 1600 W
AC 230 V, max. 3600 W
AC 240 V, max. 3840 W
Halogen lamps: AC 100 V, max. 1086 W
AC 230 V, max. 2500 W
AC 240 V, max. 2608 W
Fluorescent lamps: AC 100 V, max. 1086 VA
AC 230 V, max. 2500 VA
AC 240 V, max. 2608 VA
parallel-compensated
Capacitive load: AC 230 V, 16 A, max. 200 µF
Device width: 8 modules = approx. 144 mm
Contents: With bus connecting terminal and cable cover.

Switch actuators

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



Version	Art. no.
light grey	**MTN647895**

For independently switching 8 loads via make contacts. The actuator has integrated current detection that measures the load current on each channel. All 230 V switch outputs can be operated with manual switches. With integrated bus coupling unit.
A green LED indicates that the device is ready for operation once the application has been loaded. The load is connected with screw terminals.
For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Operation as break contact or make contact. Staircase lighting function with/without manual OFF function and switch-off warning. Delay functions. Scenes. Logic function. Blocking or priority control. Feedback function. Status. Central function with delay. Parameterisation for bus voltage failure and recovery. Behaviour for download.
Current detection function: Behaviour when value exceeds/falls short of the threshold value.
Energy, operating and switch on counter with limit value monitoring.
Flash function.
For alternating current (AC) per channel:
Nominal voltage: AC 100-240 V ±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 230 V, 16 A, max. 200 µF
Motor load: AC 100 V, max. 434 W
AC 230 V, max. 1000 W
AC 240 V, max. 1043 W
For direct current (DC) per channel:
Nominal voltage: DC 12-24 V, 0.1-16 A
Nominal current: 16 A

Current detection (load current):
Detection range: 0.1 A to 16 A (sine effective value or DC)
Sensing accuracy: +/- 8% of the current value at hand (sine) and +/- 100 mA
Frequency: 50/60 Hz, for alternating current (AC)
Description: 100 mA
Device width: 8 modules = approx. 144 mm
Contents: With bus connecting terminal and cable cover.

Switch actuators

Switch actuator REG-K/12x230/10 with manual mode

Version	Art. no.
light grey	**MTN649212**

For independent switching of up to 12 loads via make contacts. The function of the switching channels is freely configurable. All switching outlets can be operated manually using push-button operation.
Channel status display via LEDs. A green LED indicates readiness for operation.
With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Operation as break contact/make contact. Programmable behaviour for download. Delay functions for each channel. Staircase lighting function with/without manual OFF function. Cut-out warning for staircase lighting function. Scenes. Central function. Disable function. Logic operation or priority control. Status feedback function for each channel.
Power supply:
Nominal voltage: AC 230 V, 50 - 60 Hz
External auxiliary voltage (optional): AC 110 - 240 V, 50 - 60 Hz, max. 2 VA
For each switch output:
Nominal current: 10 A, $\cos\varphi = 1$; 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.

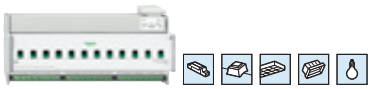
Switch actuator REG-K/12x230/16 with manual mode

Version	Art. no.
light grey	**MTN648493**

For independent switching of 12 loads via make contacts. All 230 V switch outputs can be operated with manual switches. With integrated bus coupler.
The device is connected to the mains via screw terminals; every second L connection is bridged internally. A green LED indicates readiness for operation after the application has been loaded. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Operation as break or make contact, delay functions for each channel, staircase lighting function with/without manual OFF function, cut-out warning for staircase lighting function, blocking and additional logic operation or priority control, scenes, status feedback function per channel, central function, comprehensive parameterisation for bus voltage failure and recovery, parameterisable download behaviour.
Nominal voltage: AC 230 V, 50-60 Hz
Per switch contact:
Nominal current: 16 A, $\cos\varphi = 0.6$
Incandescent lamps: AC 230 V, max. 3600 W
Halogen lamps: AC 230 V, max. 2500 W
Fluorescent lamps: AC 230 V, max. 2500 VA
Capacitive load: AC 230 V, 16 A, max. 200 µF
Device width: 12 modules = approx. 216 mm
Contents: With bus connecting terminal and cable cover.

Switch actuators

Switch actuator REG-K/12x230/16 with manual mode and current detection



Version	Art. no.
light grey	**MTN648495**

For independently switching 12 loads via make contacts. The actuator has integrated current detection that measures the load current on each channel. All 230 V switch outputs can be operated with manual switches. With integrated bus coupling unit.
A green LED indicates that the device is ready for operation once the application has been loaded. The load is connected with screw terminals.
For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Operation as break contact or make contact. Staircase lighting function with/without manual OFF function and switch-off warning. Delay functions. Scenes. Logic function. Blocking or priority control. Feedback function. Status. Central function with delay. Parameterisation for bus voltage failure and recovery. Behaviour for download.
Current detection function: Behaviour when value exceeds/falls short of the threshold value. Energy, operating and switch on counter with limit value monitoring.
Flash function.
For alternating current (AC) per channel:
Nominal voltage: AC 100-240 V ±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 230 V, 16 A, max. 200 µF
Motor load: AC 100 V, max. 434 W
AC 230 V, max. 1000 W
AC 240 V, max. 1043 W
For direct current (DC) per channel:
Nominal voltage: DC 12-24 V, 0.1-16 A
Nominal current: 16 A

Current detection (load current):
Detection range: 0.1 A to 16 A (sine effective value or DC)
Sensing accuracy: +/- 8% of the current value at hand (sine) and +/- 100 mA
Frequency: 50/60 Hz, for alternating current (AC)
Description: 100 mA
Device width: 12 modules = approx. 216 mm
Contents: With bus connecting terminal and cable cover.

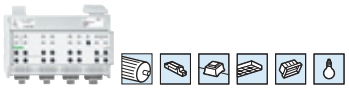
KNX
Overview rail mounted devices
blind actuators

	Blind actuator REG-K/4x/6	Blind actuator REG-K/4x24/6 with manual mode	Roller shutter actuator REG-K/4x/10 with manual mode	
				
Article number	**MTN646704**	**MTN648704**	**MTN649704**	
Number of channels	4	4	4	
Device width	4 modules	4 modules	4 modules	
Manual mode push-buttons	—	■	■	
Connecting terminal (consumer load)	Plug-in screw terminals	Plug-in screw terminals	Plug-in screw terminals	
Nominal voltage, AC, 50-60 Hz	AC 230 V	—	AC 100-240 V	
Nominal voltage, DC	—	DC 24 V, ±10 %	—	
Nominal current	6 A, cosφ = 0,6	6 A	10 A, cosφ = 0,6	
Auxiliary power (optional)	—	—	—	
Software				
Configuration switching or blind	—	—	—	
Defining blind type	■	■	—	
Slat functionality	■	■	—	
Calibration (reference movement)	■	■	■	
Movement range limit	■	■	■	
Pause on reverse on change in direction	■	■	■	
Extended drive parameters	■	■	■	
Control by ■ manual mode via the push-buttons of the actuator ■ automatic objects or preset objects ■ manual operation via objects	 — ■ ■	 ■ ■ ■	 ■ ■ ■	
Manual mode enable/disable when bus voltage fails	—	—	—	
Locking manual operation via objects	■	■	■	
Weather alarm functions ■ Wind alarm ■ Rain alarm ■ Frost alarm ■ Set the order of priority ■ Behaviour at start/end of the wether alarm	 3 1 1 ■ ■	 3 1 1 ■ ■	 3 1 1 ■ ■	
Alarm functions ■ Behavior at the start/end of the alarm	■	■	■	
Set the order of priority for higher-level functions (alarm, weather alarm, locking, movement range)	■	■	■	
Scenes	4	5	5	
Disable function ■ Behavior at the start/end of the locking	■	■	■	
Behaviour of **bus voltage failure / bus voltage recovery / download**	■ / ■ / ■	■ / ■ / ■	■ / ■ / ■	
Status messages ■ Hight ■ Slat ■ Automatic ■ Drive locking or movement range limit	 ■ ■ ■ ■	 ■ ■ ■ ■	 ■ — ■ ■	

	Blind actuator REG-K/x/10 with manual mode		Blind actuator REG-K/8x/10 with manual mode	Blind/switch actuator REG-K/x/x/10 with manual mode	
					
	MTN649802	**MTN649804**	**MTN649808**	**MTN649908**	**MTN649912**
	2	4	8	8	12
	4 modules		8 modules	8 modules	12 modules
	■		■	■	
	Plug-in screw terminals		Plug-in screw terminals	Plug-in screw terminals	
	AC 100-240 V		AC 230 V	AC 100-240 V	
	—		—	—	
	10 A, cosφ = 0,6		10 A, cosφ = 0,6	10 A, cosφ = 0,6	
	—		AC 110-240 V, 50-60 Hz, max. 2 VA	AC 110-240 V, 50-60 Hz, max. 2 VA	
	—		—	■	
	■		■	■	
	■		■	■	
	■		■	■	
	■		■	—	
	■		■	■	
	■		■	■	
	■ ■ ■		■ ■ ■	■ — ■	
	—		■ (Precondition: auxiliary power)	■ (Precondition: auxiliary power)	
	■		■	—	
	3 1 1 ■ ■		3 1 1 ■ ■	1 1 — ■ ■	
	■		■	—	
	■		■	—	
	5		5	5	
	■		■	—	
	■ / ■ / ■		■ / ■ / ■	■ / ■ / ■	
	■ ■ ■ ■		■ ■ ■ ■	■ ■ — —	

Blind/switch actuators

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

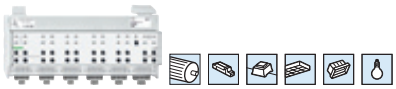


Version	Art. no.
light grey	**MTN649908**

For independent control of up to 8 blind/roller shutter drives or for switching up to 16 loads via make contacts. The function of the blind or switching channels is freely configurable. All blind/switch outputs can be operated manually using push-buttons.
The bus is connected using a bus connecting terminal; a data rail is not necessary. Channel status display via LEDs. A green LED indicates readiness for operation.
With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Blind functions: Blind type. Running time. Idle time. Step interval. Weather alarm. 8-bit positioning for height and slats. Scenes. Status and feedback function.
Switch actuator functions: Operation as break contact/make contact. Programmable behaviour for download. Delay functions for each channel. Staircase lighting function with/without manual OFF function. Cut-out warning for staircase lighting function. Scenes. Central function. Disable function. Logic operation or priority control. Status feedback function for each channel.
Nominal voltage: AC 100-240 V ±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 cosφ = 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 cosφ = 1
10 A, inductive load cosφ = 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 weather-dependent automatic functions of the weather combi-sensor/DCF77 art. no. MTN663692. If you require these functions then use the blind actuators art. no. MTN6498...
Contents: With bus connecting terminal and cable cover.

Blind/switch actuators

Blind / switch actuator REG-K/12x/24x/10 with manual mode



Version	Art. no.
light grey	**MTN649912**

For independent control of up to 12 blind/roller shutter drives or for switching up to 24 loads via make contacts. The function of the blind or switching channels is freely configurable. All blind/switch outputs can be operated manually using push-buttons.
Channel status display via LEDs. A green LED indicates readiness for operation.
With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Blind functions: Blind type. Running time. Idle time. Step interval. Weather alarm. 8-bit positioning for height and slats. Scenes. Status and feedback function.
Switch actuator functions: Operation as break contact/make contact. Programmable behaviour for download. Delay functions for each channel. Staircase lighting function with/without manual OFF function. Cut-out warning for staircase lighting function. Scenes. Central function. Disable function. Logic operation or priority control. Status feedback function for each channel.
Nominal voltage: AC 100-240 V ±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 cosφ = 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 cosφ = 1
10 A, inductive load cosφ = 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 weather-dependent automatic functions of the weather combi-sensor/DCF77 art. no. MTN663692. If you require these functions then use the blind actuators art. no. MTN6498...
Contents: With bus connecting terminal and cable cover.

Blind actuators

Blind actuators

Blind actuator REG-K/2x/10 with manual mode

Version	Art. no.
light grey	**MTN649802**

For independent control of 2 blind/roller shutter drives. The function of the blind channels is freely configurable. All blind outputs can be operated manually using push-button operation. Channel status display via LEDs. A green LED indicates readiness for operation.
With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Blind functions: Blind type. Running time. Idle time. Step interval. Differentiated disable functions and weather alarms. 8-bit positioning for height and slat. Scenes. Manual/automatic mode. Differentiated status and status feedback functions.
For each blind output:
Nominal voltage: AC 100-240 V ±10%
Operating voltage: min. AC 90 V - max. AC 265 V
Mains frequency: 50-60 Hz ±10%
Nominal current: 10 A, inductive load cosφ = 0.6
Motor load: AC 100 V, max. 434 W
AC 230 V, max. 1000 W
AC 240 V, max. 1043 W
Device width: 4 modules = approx. 72 mm
Contents: With bus connecting terminal and cable cover.

Blind actuator REG-K/4x24/6 with manual mode

Version	Art. no.
light grey	**MTN648704**

For independent control of 4 blind/roller shutter drives. The function of the blind channels is freely configurable. All blind outputs can be operated manually using push-button operation. Channel status display via LEDs. A green LED indicates readiness for operation.
With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Blind functions: Blind type. Running time. Idle time. Step interval. Differentiated disable functions and weather alarms. 8-bit positioning for height and slat. Scenes. Manual/automatic mode. Differentiated status and status feedback functions.
For each blind output:
Nominal voltage: DC 24 V ±10 %
Nominal current: 6 A
Load types: 24 V direct current drives
Device width: 4 modules = approx. 72 mm
Contents: With bus connecting terminal and cable cover.

Blind actuators

Blind actuator REG-K/4x/6

Version	Art. no.
light grey	**MTN646704**

For independent control of 4 blind/roller shutter drives. With integrated bus coupler and plug-in screw terminals.
A green LED indicates readiness for operation after the application has been loaded.
For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Blind functions: Blind type. Running time. Idle time. Step interval. Weather alarms. 8-bit positioning for height and slats. Scenes. Automatic function. Differentiated status and feedback functions.
For each blind output:
Nominal voltage: AC 230 V, 50-60 Hz
Nominal current: 6 A, $\cos\varphi = 0.6$
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 operation.
Channel status display via LEDs. A green LED indicates readiness for operation.
With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Roller shutter functions: Running time. Idle time. Differentiated disable functions and weather alarms. 8-bit positioning for height. Scenes. Manual/automatic function. Differentiated status and status feedback functions.
For each roller shutter output:
Nominal voltage: AC 100-240 V ±10%
Operating voltage: min. AC 90 V - max. AC 265 V
Mains frequency: 50-60 Hz ±10%
Nominal current: 10 A, inductive load $\cos\varphi = 0.6$
Motor load: AC 100 V, max. 434 W
AC 230 V, max. 1000 W
AC 240 V, max. 1043 W
Device width: 4 modules = approx. 72 mm
Contents: With bus connecting terminal and cable cover.

Blind actuators

Blind actuator REG-K/4x/10 with manual mode

Version	Art. no.
light grey	**MTN649804**

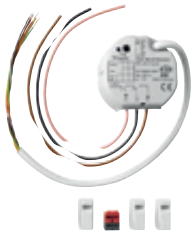
For independent control of 4 blind/roller shutter drives. The functions of the blind channels is freely configurable. All blind outputs can be operated manually using push-button operation. Channel status display via LEDs. A green LED indicates readiness for operation.
With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Blind functions: Blind type. Running time. Idle time. Step interval. Differentiated disable functions and weather alarms. 8-bit positioning for height and slat. Scenes. Manual/automatic mode. Differentiated status and status feedback functions.
For each blind output:
Nominal voltage: AC 100-240 V ±10%
Operating voltage: min. AC 90 V - max. AC 265 V
Mains frequency: 50-60 Hz ±10%
Nominal current: 10 A, inductive load cosφ = 0.6
Motor load: AC 100 V, max. 434 W
AC 230 V, max. 1000 W
AC 240 V, max. 1043 W
Device width: 4 modules = approx. 72 mm
Contents: With bus connecting terminal and cable cover.

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

Version	Art. no.
light grey	**MTN649808**

For independent control of 8 blind/roller shutter drives. The functions of the blind channels is freely configurable. All blind outputs can be operated manually using push-buttons.
Channel status display via LEDs. A green LED indicates readiness for operation.
With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Blind functions: Blind type. Running time. Idle time. Step interval. Differentiated disable functions and weather alarms. 8-bit positioning for height and slat. Scenes. Manual/automatic mode. Differentiated status and status feedback functions.
For each blind output:
Nominal voltage: AC 230 V, 50 - 60 Hz
Nominal current:10 A, cosφ = 0.6
Motor load: AC 230 V, max. 1000 W
External auxiliary voltage (optional): AC 110-240 V, 50-60 Hz, max. 2 VA
Device width: 8 modules = approx. 144 mm
Contents: With bus connecting terminal and cable cover.

Blind actuators

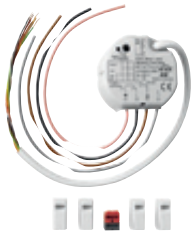


KNX blind actuator FM with 3 inputs

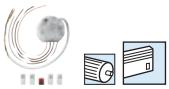
Version	Art. no.
	MTN6003-0004

1-gang blind actuator with three inputs for installation in a size 60 switch box. Floating contacts can be connected to the three inputs.
The inputs have already been assigned to the actuator at the factory, enabling operation without programming.
Connection to 230 V via a flexible cable, approx. 20 cm long. The inputs and the KNX are connected via a 6-core, approx. 30 cm long, connecting cable. The connecting cable for the inputs can be extended to a max. of 5 m.
KNX software functions: Blind actuator function:
Operation mode: Blinds, roller shutters, awnings or ventilation flaps. Raising or lowering times with extension for the upper limit position. Status feedback of the position or of the slat position. Active/passive status feedback, cycl. status feedback function. Up to 5 safety functions (3 wind alarms, 1 rain alarm, 1 frost alarm). Cycl. monitoring. Sun protection function with fixed and variable positions. Shading controls with heating/cooling automatic mode and presence function. Behaviour when bus voltage fails/recovers. Status feedback delay after bus voltage recovery. Priority function. 8 Scene function. Memory function for scenes.
Input function:
Free assignment of the switching, dimming, blind and valuator functions. Locking object. Behaviour when bus voltage recovers.
Switching: two switch objects per input. Command on rising/falling edge (ON, OFF, TOGGLE, no reaction).
Dimming: Single surface and dual-surface operation. Time between dimming and switching and dim step values. Telegram repetition and send stop telegram.
Blinds: Command on rising edge (none, UP, DOWN, TOGGLE), Operation concept (Step - Move - Step or Move - Step). Time between short and long operation. Slat adjustment time.
Valuator and Scene ext. input: Edge (push-button as make contact, push-button as break contact, switch) and value on edge. Value adjustment via long push-button action for valuator. Scene ext. unit with memory function.
Nominal voltage: AC 230 V, 50/60 Hz
Switching current: 3 A, AC1
Nominal output
Motor: AC 230 V, 600 VA
Inputs: 3
Temperature range: -5 °C to 45 °C
Type of protection: IP 20
Dimensions: 53x53x28 (WxHxD)
Note: For installation in a double box or an electronic box (Kaiser). There must be a minimum gap of 4mm between the 230V connection and the connection for the KNX/Inputs (SELV)

Blind actuators



KNX blind and heating actuator with 3 inputs



Version	Art. no.
	MTN6003-0006

1-gang blind actuator and 1-gang heating actuator with three inputs for installation in a size 60 switch box. Floating contacts can be connected to the inputs.
The inputs have already been assigned to the actuator at the factory, enabling operation without programming.
Connection to 230 V via a flexible cable, approx. 20 cm long. The inputs and the KNX are connected via a 6-core, approx. 30 cm long, connecting cable. The connecting cable for the inputs can be extended to a max. of 5 m.
KNX software functions: Blind actuator function:
Operation mode: Blinds, roller shutters, awnings or ventilation flaps. Raising or lowering times with extension for the upper limit position. Status feedback of the position or of the slat position. Active/passive status feedback, cycl. status feedback function. Up to 5 safety functions (3 wind alarms, 1 rain alarm, 1 frost alarm). Cycl. monitoring. Sun protection function with fixed and variable positions. Shading controls with heating/cooling automatic mode and presence function. Behaviour when bus voltage fails/recovers. Status feedback delay after bus voltage recovery. Priority function. 8 Scene function. Memory function for scenes.
Heating actuator function:
Can be controlled by a control value (1 bit or 1 byte). Status indication (1 bit or 1 byte). Valve control (de-energised open/closed). Summer or winter mode can be selected. Cyclical monitoring of control value. Emergency mode and alarm signal. Priority control (forced setting for summer and winter mode with different values). Behaviour when bus voltage recovers and fails. Overload or short circuit signal. Control of the valve drives (switching or via PWM). Function to protect valves from sticking.
Input function:
Free assignment of the switching, dimming, blind and valuator functions. Locking object. Behaviour when bus voltage recovers.
Switching: two switch objects per input. Command on rising/falling edge (ON, OFF, TOGGLE, no reaction).
Dimming: Single surface and dual-surface operation. Time between dimming and switching and dim step values. Telegram repetition and send stop telegram.
Blinds: Command on rising edge (none, UP, DOWN, TOGGLE), Operation concept (Step - Move - Step or Move - Step). Time between short and long operation. Slat adjustment time.
Valuator and Scene ext. input: Edge (push-button as make contact, push-button as break contact, switch) and value on edge. Value adjustment via long push-button action for valuator. Scene ext. unit with memory function.
Nominal voltage: AC 230 V, 50/60 Hz
Blind output
Switching current: 3 A, AC1
Nominal output
Motor: AC 230 V, 600 VA
Heating output
Switch contact: Triac
Nominal current: 5 to 25 mA, max. 2 valve drives
Inputs: 3
Temperature range: -5 °C to 45 °C
Type of protection: IP 20
Dimensions: 53x53x28 (WxHxD)
Note: For installation in a double box or an electronic box (Kaiser). There must be a minimum gap of 4mm between the 230V connection and the connection for the KNX/Inputs (SELV)

Blind actuators

KNX
Overview rail mounted devices dimming actuators

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

4 switchable speed sets with 6 values. This corresponds to 24 storable dimming speeds for:
Switch on, switch off staircase timer, dim, values, scenes, higher priority functions.

	Universal dimming actuator REG-K/ 4x230/250 W	Universal dimming actuator REG-K/ 2x230/300 W	Universal dimming actuator REG-K/ 230/500 W	Universal dimming actuator REG-K/ 230/1000 W
				
	MTN649325	**MTN649330**	**MTN649350**	**MTN649310**
	4	2	1	1
	8 modules	4 modules	4 modules	4 modules
	■	■	■	■
	Plug-in screw terminals	Plug-in screw terminals	Plug-in screw terminals	Plug-in screw terminals
	AC 220-230 V, 50/60 Hz	AC 220-230 V, 50/60 Hz	AC 220-230 V, 50/60 Hz	AC 110-230 V, 50/60 Hz; 0,22-4,3 A 110 V, 50 Hz: 24-480 VA 230V, 50 Hz: 50-1000 VA 110 V, 60 Hz: 24-400 VA 230V, 60 Hz: 50-850 VA
	4 x 250 W/VA 1 x 500 W/VA, 2 x 250 W/VA 2x500 W/VA 1x500 W/VA	— — 2x300 W/VA 1x500 W/VA	— — — 1x500 W/VA	— — — 1x1000 W/VA
	25 W	25 W	25 W	25 W
	50 VA	50 VA	50 VA	50 VA
	50 VA	50 VA	50 VA	50 VA
	■	■	■	■
	■	—	—	—
	—	AC 230 V, 50/60 Hz	AC 230 V, 50/60 Hz	AC 110-230 V, 50/60 Hz, mechanical push-buttons
	■	■	■	■
	■/■ ■/■ ■ ■ ■ ■ ■ ■ ■	■/■ ■/■ ■ ■ ■ ■ ■ ■ ■	■/■ ■/■ ■ ■ ■ ■ ■ ■ ■	■/■ ■/■ ■ ■ ■ ■ ■ ■ ■
	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■	■ ■ ■ ■ ■
	8	8	8	8
	■	■	■	■
	■ Disable function ■ Logic operation or priority function	■ Disable function ■ Logic operation or priority function	■ Disable function ■ Logic operation or priority function	■ Disable function ■ Logic operation or priority function
	■ ■	■ ■	■ ■	■ ■
	■ ■	■ ■	■ ■	■ ■
	—/■/■	—/■/■	—/■/■	—/■/■
	■ ■ ■	■ ■ ■	■ ■ ■	■ ■ ■

Dimming actuators

Dimming actuator REG-K/2x230/300 W

Version	Art. no.
light grey	**MTN646630**

AC 230 V, 50 Hz
For switching and dimming incandescent lamps and dimmable, wound transformers (ohmic / inductive load).
(Phase control)
With integral bus coupler, plug-in screw terminals, short-circuit and overload protection and soft start function to protect the lamps.
Readiness for operation is indicated by a green LED after the application has been loaded, and an overload of one channel or both channels is indicated by a flashing light.
KNX software functions: Starting behaviour, memory function, dimming speed, switching off by relative dimming, configurable minimum brightness and behaviour on bus voltage failure/recovery are programmable.
Nominal voltage: AC 230 V, 50 Hz
Nominal power/channel: max. 300 W/VA
Minimum load: 25 W/VA
Short-circuit protection: via fuse
Device width: 6 modules = approx. 108 mm
Contents: With bus connecting terminal and cable cover.

Universal dimming actuator REG-K/230/1000 W

Version	Art. no.
light grey	**MTN649310**

AC 230 V, 50-60 Hz
For switching and dimming incandescent lamps, HV halogen lamps and LV halogen lamps using dimmable wound transformers or electronic transformers.
(Phase control and phase alignment)
With integral bus coupler, screw terminals, short-circuit, open-circuit and excess temperature protection with soft start function.
The dimming actuator automatically recognises the connected load. Combinations of ohmic and inductive, or ohmic and capacitive loads can also be connected. Combinations of inductive and capacitive loads must not be connected.
For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Dimming operation via KNX, extension units and on the device, different dimming curves and dimming speeds, the same dimming time, memory function, ON/OFF delay, staircase time function with/without manual OFF function, scenes (up to eight stored brightness values can be retrieved), central function, logic operation or priority control, blocking function, status feedback.
Nominal voltage: AC 110-230 V ±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

Universal dimming actuator REG-K/230/500 W

Version	Art. no.
light grey	**MTN649350**

AC 230 V, 50-60 Hz
For switching and dimming incandescent lamps, HV halogen lamps and LV halogen lamps using dimmable wound transformers or electronic transformers.
(Phase control and phase alignment)
With integral bus coupler, screw terminals, short-circuit, open-circuit and excess temperature protection with soft start function.
The dimming actuator automatically recognises the connected load. Combinations of ohmic and inductive, or ohmic and capacitive loads can also be connected. Combinations of inductive and capacitive loads must not be connected.
For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Dimming operation via KNX, extension units and on the device, different dimming curves and dimming speeds, the same dimming time, memory function, ON/OFF delay, staircase time function with/without manual OFF function, scenes (up to eight stored brightness values can be retrieved), central function, logic operation or priority control, blocking function, status feedback.
Nominal voltage: AC 220 - 230 V, 50/60 Hz
Nominal power/channel: max. 500 W/VA
25 W minimum load (ohmic)
50 VA minimum load (ohmic/inductive/capacitive)
Input (extension unit operation): AC 230 V, 50/60 Hz (same phase as the dimming channel)
Device width: 4 modules = approx. 72 mm
Extension unit operation: Extension TELE insert MTN573998
Contents: With bus connecting terminal and cable cover.

Universal dimming actuator REG-K/2x230/300 W

Version	Art. no.
light grey	**MTN649330**

AC 230 V, 50-60 Hz
For switching and dimming incandescent lamps, HV halogen lamps and LV halogen lamps using dimmable wound transformers or electronic transformers.
(Phase control and phase alignment)
With integral bus coupler, screw terminals, short-circuit, open-circuit and excess temperature protection with soft start function.
The dimming actuator automatically recognises the connected load. Combinations of ohmic and inductive, or ohmic and capacitive loads can also be connected. Combinations of inductive and capacitive loads must not be connected.
For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Dimming operation via KNX, extension units and on the device, different dimming curves and dimming speeds, the same dimming time, memory function, ON/OFF delay, staircase time function with/without manual OFF function, scenes (up to eight stored brightness values can be retrieved), central function, logic operation or priority control, blocking function, status feedback.
Nominal voltage: AC 220 - 230 V, 50/60 Hz
Nominal power/channel: max. 300 W/VA
25 W minimum load (ohmic)
50 W minimum load (ohmic/inductive/capacitive)
Input (extension unit operation): AC 230 V, 50/60 Hz (same phase as the dimming channels)
Device width: 4 modules = approx. 72 mm
Extension unit operation: Extension TELE insert MTN573998
Contents: With bus connecting terminal and cable cover.

Dimming actuators/control units

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

Version	Art. no.
light grey	**MTN649325**

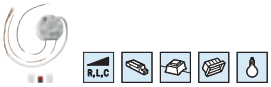
AC 230 V, 50-60 Hz
For switching and dimming incandescent lamps, HV halogen lamps and LV halogen lamps using dimmable wound transformers or electronic transformers (Automatic load detection).
(Phase control and phase alignment)
The connection of different outer conductors is allowed.
With integral bus coupler, screw terminals, short-circuit, open-circuit and excess temperature protection with soft start function. For installation onto DIN rails EN 50022.
The dimming actuator automatically recognises the connected load. Combinations of ohmic and inductive, or ohmic and capacitive loads can also be connected. Combinations of inductive and capacitive loads must not be connected.
Bus connection is via bus terminals; a data rail is not necessary.
For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Dimming operation via KNX, Dimming operation on the device, different dimming curves and dimming speeds, the same dimming time, memory function, ON/OFF delay, staircase time function with/without manual OFF function, scenes (up to eight stored brightness values can be retrieved), central function, logic operation or priority control, blocking function, status feedback.
Nominal voltage: AC 220 - 230 V, 50/60 Hz
Channels: 4 (different phases possible)
Nominal power: 4 x 250 W/VA
3 channels: 1 x 500 W/VA and 2 x 250 W/VA
2 channels: 2 x 500 W/VA
Minimum load/channel: 25 W (ohmic)
50 VA (ohmic-inductive/ohmic-capacitive)
Device width: 8 HP = approx. 144 mm
Contents: With bus connecting terminal and cable cover.

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

Version	Art. no.
light grey	**MTN649315**

AC 230 V, 50-60 Hz
For switching and dimming incandescent lamps, HV halogen lamps and LV halogen lamps using dimmable wound transformers or electronic transformers.
(Phase control and phase alignment)
With integral bus coupler, screw terminals, short-circuit, open-circuit and excess temperature protection with soft start function.
The dimming actuator automatically recognises the connected load. Combinations of ohmic and inductive, or ohmic and capacitive loads can also be connected. Combinations of inductive and capacitive loads must not be connected.
For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Dimming operation via KNX, extension units and on the device, different dimming curves and dimming speeds, the same dimming time, memory function, ON/OFF delay, staircase time function with/without manual OFF function, scenes (up to eight stored brightness values can be retrieved), central function, logic operation or priority control, blocking function, status feedback.
Nominal voltage: AC 220 - 230 V, 50/60 Hz
Nominal power/channel: max. 150 W/VA
25 W minimum load (ohmic)
50 VA minimum load (ohmic/inductive/capacitive)
Input (extension unit operation): AC 230 V, 50/60 Hz (same phase as the dimming channels)
Device width: 6 modules = approx. 105 mm
Extension unit operation: Extension TELE insert MTN573998
Contents: With bus connecting terminal and cable cover.

KNX universal dimming actuator FM 50-210 W/VA with 2 inputs



Version	Art. no.
	MTN6003-0003

1-gang universal dimming actuator with two inputs for installation in a size 60 switch box. Floating contacts can be connected to the two inputs.
The inputs have already been assigned to the actuator at the factory, enabling operation without programming.
Connection to 230 V via a flexible cable, approx. 20 cm long. The inputs and the KNX are connected via a 6-core, approx. 30 cm long, connecting cable. The connecting cable for the inputs can be extended to a max. of 5 m.
KNX software functions: Dimming actuator function:
Switching and dimming lamps. Switch on and dimming behaviour can be adjusted. Feedback of the switching state and the brightness value. “Soft ON”, “Soft OFF” and time dimmer. Dimming or jumping to brightness values. Time-delayed switch off when a switch off brightness is not reached. Short circuit and load failure signal. Scene operation. Blocked operation via an object with parameterisable brightness value at the beginning and the end of blocking. Behaviour of the dimming actuator after bus voltage recovery.
Input function:
Free assignment of the switching, dimming, blind and valuator functions. Locking object. Behaviour when bus voltage recovers.
Switching: two switch objects per input. Command on rising/falling edge (ON, OFF, TOGGLE, no reaction).
Dimming: Single surface and dual-surface operation. Time between dimming and switching and dim step values. Telegram repetition and send stop telegram.
Blinds: Command on rising edge (none, UP, DOWN, TOGGLE), Operation concept (Step - Move - Step or Move - Step). Time between short and long operation. Slat adjustment time.
Valuator and Scene ext. input: Edge (push-button as make contact, push-button as break contact, switch) and value on edge. Value adjustment via long push-button action for valuator. Scene ext. unit with memory function.
Nominal voltage: AC 230 V, 50/60 Hz
Connected load
Ohmic load: AC 230 V, 50 to 210 W
Incandescent lamps: AC 230 V, 50 to 210 W
Halogen lamps: AC 230 V, 50 to 210 W
LV halogen lamps: 50 to 210 W/VA, wound transformer
50 to 210 W, electronic transformers
Inputs: 2
Type of protection: IP 20
Dimensions: 53x53x28 (WxHxD)
Note: For installation in a double box or an electronic box (Kaiser). There must be a minimum gap of 4mm between the 230V connection and the connection for the KNX/Inputs (SELV)

Control units 1-10 V

Control unit 0-10 V REG-K/1-gang with manual mode

Version	Art. no.
light grey	**MTN647091**

For connecting devices with 0-10 V interface to KNX. With integrated bus coupler and screw terminals (230 V) or plug-in screw terminals (0-10 V). Each individual 230 V switch output can be operated manually with a manual switch.
For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Different dimming curves and dimming speeds, the same dimming time, memory function, ON/OFF delay, staircase time function with/without manual OFF function, scenes (up to eight stored brightness values can be retrieved), central function, logic operation or priority control, blocking function, status feedback, behaviour on bus voltage recovery.
Switch contact: for switching the electronic ballasts/transformers
Nominal voltage: AC 100-240 V ±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 µF
AC 240 V, max. 3840 W, 200 µF
0-10 V interface: 0.12-100 mA
Voltage range: DC 0-10 V
Device width: 2.5 HP = approx. 45 mm
Contents: With bus connecting terminal and cable cover.

Control unit 0-10 V REG-K/3-gang with manual mode

Version	Art. no.
light grey	**MTN646991**

For connecting devices with 0-10 V interface to KNX. With integrated bus coupler and screw terminals (230 V) or plug-in screw terminals (0-10 V). Each individual 230 V switch output can be operated manually with a manual switch.
For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Different dimming curves and dimming speeds, the same dimming time, memory function, ON/OFF delay, staircase time function with/without manual OFF function, scenes (up to eight stored brightness values can be retrieved), central function, logic operation or priority control, blocking function, status feedback, behaviour on bus voltage recovery.
Switch contact: for switching the electronic ballasts/transformers
Nominal voltage: AC 230 V, 50-60 Hz
Nominal current: 16 A, $\cos\varphi = 0.6$
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.

Other actuators

- The devices have protection type IP 20 and can only be used indoors. Devices with a different type of protection are labelled separately.

Analogue actuator REG-K/4-gang

Version	Art. no.
light grey	**MTN682291**

The output channels can be parameterised for different current and voltage signals to control different analogue variables (e.g. servomotors). The actuator has four analogue outputs. For use in connection with the analogue actuator module REG/4-gang, 8 analogue outputs are provided. Connections are made using the sub-bus.
With continuity checking of the current outputs. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
Auxiliary voltage: AC 24 V (+/-10 %)
Analogue outputs: 4
Current signals: 0 ... 20 mA, 4 ... 20 mA
Voltage signals: 0 ... 1 V, 0.. 10 V
Continuity checking: 4 ... 20 mA
Outputs: DC 24 V, 100 mA (total)
Device width: 4 modules = approx. 72 mm
In KNX, to be completed with: Power supply REG, AC 24 V/1 A MTN663529
Accessories: Analogue actuator module REG/4-gang MTN682292
Contents: With bus connecting terminal and cable cover.

Analogue actuator module REG/4-gang

Version	Art. no.
light grey	**MTN682292**

Extension module to extend analogue actuator REG-K/4-gang from 4 to 8 analogue outputs. Connections are made using the sub-bus.
The output channels can be independently parameterised for different current and voltage signals to control different control values (e.g. servomotors).
For installation on DIN rails TH35 according to EN 60715.
Auxiliary voltage: AC 24 V (+/-10 %)
Analogue outputs: 4
Current signals: 0 ... 20 mA, 4 ... 20 mA
Voltage signals: 0 ... 1 V, 0.. 10 V (DC)
Continuity checking: 4 ... 20 mA
Outputs: DC 24 V, 100 mA (total)
Device width: 4 modules = approx. 72 mm
In KNX, to be completed with: Analogue actuator REG-K/4-gang MTN682291
Contents: With sub-bus jumper.

Control and display devices

Touch panel 7”

Version	Art. no.
	MTN6260-0007

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

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

The 7” touch panel has a LAN (10/100 Mbit/s), KNX and USB interface.. With integrated loudspeaker.

Due to its flat design in a flush-mounted housing, its uses range from residential to commercial applications. It can be installed horizontally or vertically.
KNX software functions: Switching, dimming, operation of sunshade systems such as roller shutters, awnings and blinds. Save and retrieve scenes Transmit values. Telegram status display. Temperature display. Logic functions. Disable module. Dynamic language selection via KNX object.
Nominal voltage: AC 230 V, 50 Hz
Power consumption: 2 W in energy-saving mode, 9 W when in operation
Ambient operating temperature: -5°C to 45 °C
Display size: 17.8 cm (7“)
Resolution: 800 x 480 pixels
Display type: TFT
Colours shown: 65.000
Hardware: 312 MHz Intel XScale PXA270
RAM: 64 MB
Flash memory: 64 MB
Type of protection: IP 20
Dimensions: 196x137x52 mm (HxWxD)
In KNX, to be completed with: Flush-mounted mounting box for IP touch panel 7” MEG6270-0003, Inner frame set for 7” touch panel MTN6270-01.., Glass frame for 7” touch panel MTN6270-3619, Metal frame for 7” touch panel MTN6270-3714/-3721, Aluminium frame for 7” touch panel MTN6270-37.., Frame for 7” touch panel MTN6270-00..

Inner frame set for 7” touch panel

Version		Art. no.
☐	polar white	**MTN6270-0119**
■	black	**MTN6270-0122**

The set consists of the inner frame and the USB cover. The design frames, which are available in various types of material, are attached to the touch panel using the inner frame.
In KNX, to be completed with: Touch panel 7” MTN6260-0007, Glass frame for 7” touch panel MTN6270-3619, Metal frame for 7” touch panel MTN6270-3714/-3721, Aluminium frame for 7” touch panel MTN6270-37.., Frame for 7” touch panel MTN6270-00..
Replacement part: USB cover for 7” touch panel MTN6270-02..

Control and display devices

Flush-mounted mounting box for IP touch panel 7”

Version	Art. no.
grey	**MTN6270-0003**

For flush-mounted installation of the touch panel 7” and for installing into a cavity wall.
DimensionsOuter dimensions: 195x140x55 mm (HxWxD)
In KNX, to be completed with: Touch panel 7” MTN6260-0007

Glass frame for 7” touch panel

Version	Art. no.
☐ Brilliant white	**MTN6270-3619**

Decorative glass frame for 7” touch panel.
In KNX, to be completed with: Touch panel 7” MTN6260-0007, Inner frame set for 7” touch panel MTN6270-01..

Metal frame for 7” touch panel

Version	Art. no.
polished brass	**MTN6270-3721**
Steel	**MTN6270-3714**

Decorative solid metal frame for 7” touch panel.
In KNX, to be completed with: Touch panel 7” MTN6260-0007, Inner frame set for 7” touch panel MTN6270-01..

Aluminium frame for 7” touch panel

Version	Art. no.
aluminium	**MTN6270-3760**
Polar white	**MTN6270-3719**
Black	**MTN6270-3722**

Decorative aluminium frame for 7” touch panel.
In KNX, to be completed with: Touch panel 7” MTN6260-0007, Inner frame set for 7” touch panel MTN6270-01..

Control and display devices

Frame for 7” touch panel

Version		Art. no.
☐	polar white	**MTN6270-0019**
■	black	**MTN6270-0022**

Decorative frame for 7” touch panel.
In KNX, to be completed with: Touch panel 7” MTN6260-0007, Inner frame set for 7” touch panel MTN6270-01..

USB cover for 7” touch panel

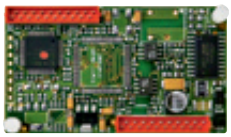
Version		Art. no.
☐	polar white	**MTN6270-0219**
■	black	**MTN6270-0222**

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

IP touch panel 10”

Version	Art. no.
aluminium glossy	**MTN683090**

The IP touch panel 10” is used for the visualisation and control of current building statuses and functions. It is operated interactively on the touch-sensitive TFT display.
Windows CE is installed as the operating system. With this standard, solutions such as data management, web functions and client/server and network functions can be configured quickly and easily.
Using the optional visualisation software, the IP touch panel 10” can be programmed for the visualised, interactive control of building functions.
The IP touch panel 10” has LAN (10/100 Mbit/s), and a RS 232 and USB connection. The USB connection is in the front behind the frame. A plug-in KNX module can be used to connect the IP touch panel 10” to the KNX.
Due to its flat design in a flush-mounted housing, its uses range from home applications to purpose-built applications.
KNX software functions: Configuration using the “TP VISU configuration tool”.
Display size: 10.4“ (24.4 cm)
Resolution: 800 x 600 pixels, SVGA
Display type: TFT, resistive touch
Colours shown: > 65000
Supply voltage: DC 24 V
Power consumption: < 20 W
RAM: 128 MB
Flash memory: 64 MB
Data buffering: via battery
Ambient operating temperature: 5 °C to 40 °C
Type of protection: IP 20
Frame dimensions: 224.7x277.5x12 mm (HxWxD)
To be completed with: Power supply REG, 24 V DC / 1.25 A MTN693004
Accessories: KNX module for IP touch panel MTN683093, Real glass frame for IP touch panel 10” M-Plan MTN489960, Flush-mounted mounting box for IP touch panel 10” MTN683091, Cavity wall mounting box for IP touch panel 10” MTN683092
Note: The configuration software is available on the Internet.
Contents: With Design M-Plan frames, aluminium.



KNX module for IP touch panel

Version	Art. no.
	MTN683093

Plug-in module for connecting the IP touch panel to the KNX.
To be completed with: IP touch panel 10” MTN683090

Real glass frame for IP touch panel 10”

Version	Art. no.
Diamond silver	**MTN489960**

For M-Plan.
Decorative frame for the IP touch panel 10”.
Dimensions: 228.6x281.4x13.5 mm (HxWxD)
To be completed with: IP touch panel 10” MTN683090

Control and display devices

Flush-mounted mounting box for IP touch panel 10”		Cavity wall mounting box for IP touch panel 10”	
			
Version	Art. no.	Version	Art. no.
	MTN683091		**MTN683092**
For flush-mounted installation of the IP touch panel 10”. **Dimensions:** 208x238x68 mm (HxWxD) **To be completed with:** IP touch panel 10” MTN683090		For installing the IP touch panel 10” into a cavity wall. **Dimensions:** 205x235x72 mm (HxWxD) **To be completed with:** IP touch panel 10” MTN683090	

Room temperature control unit System M

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

Version	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.
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.

Room temperature control units

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

Version	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.
Functions of the room temperature control unit:

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

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

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

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

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

Monitoring function for the actual temperature, valve protection function.

Scene function.

Operation: Menu.
Transmitter: IR remote control Distance 2010 MTN570222
To be completed with: M-Smart frame, 2-gang without central bridge piece MTN4788.., M-Arc frame, 2-gang without central bridge piece MTN4858.., M-Star frame, 2-gang without central bridge piece MTN4668.., MTN4768.., MTN4868.., M-Plan frames, 2-gang without central bridge piece MTN4888.., MTN5158.., Metal frame, 2-gang without central bridge piece M-Elegance MTN4038.., Wood frame, 2-gang without central bridge piece M-Elegance MTN4058.., Real glass frame, 2-gang without central bridge piece M-Elegance MTN4048..
Contents: With bus connecting terminal and supporting plate.
Screw for protection against dismantling.
With protective hood for plaster.

Room temperature control units

Room temperature control unit with display

Version	Art. no.
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 interface

Version		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

Room temperature control units

Remote sensor for room temperature control unit UP/PI

Version	Art. no.
black	**MTN616790**

Temperature sensor the floor/room temperature measurement
Cable length: 4 m (2 x 0.75 mm²)
To be completed with: KNX Room temperature control unit, flush-mounted/PI with 4-gang push-button interface
System M MTN6167.., MTN6168.., Artec/Trancent/Antique MTN6169..

Room temperature control unit for properties

Version	Art. no.
white, glossy	**MTN6221-0344**
polar white, glossy	**MTN6221-0319**
active white, glossy	**MTN6221-0325**
anthracite	**MTN6221-0414**
aluminium	**MTN6221-0460**

For System M.
KNX room temperature control unit for properties with integrated bus coupler. Depending on the operating mode, the current temperature setpoint value and the actual room temperature, a control value for the heating or cooling control unit is transmitted to the KNX. The temperature can optionally be measured by the internal or by an external bus temperature sensor.
The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. Operating mode, nominal value, control function settings made only via the bus The device does not have any operating and display elements.
With integrated bus coupler. The bus is connected using a bus connecting terminal.
KNX software functions:
Functions of the room temperature control unit:

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

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

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

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

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

Monitoring function for the actual temperature, valve protection function.

Operation: only via bus telegrams.
Contents: With bus connecting terminal and supporting plate.
With protective hood for plaster.

Room temperature control unit Artec, Trancent, Antique

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

Version	Art. no.
white, glossy	**MTN6212-4044**
polar white, glossy	**MTN6212-4019**
aluminium	**MTN6212-4060**
stainless steel	**MTN6212-4146**

For Artec, Trancent, Antique.
Convenient control unit with 4 operating buttons, operating and status display and labelling field.
The operating display can also be used as an orientation light.
With room temperature control unit and display.
With 5 blue LEDs.
The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day (external trigger), display mode, time, switching times and brightness of the display.
The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.
With integrated bus coupler. The bus is connected using a bus connecting terminal.
KNX software functions:
Functions of the push-buttons:

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

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

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

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

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

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

Monitoring function for the actual temperature, valve protection function.

Scene function.

Operation: Menu.
Contents: With bus connecting terminal and supporting plate.
Screw for protection against dismantling.
With protective hood for plaster.

Room temperature control units

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

Version	Art. no.
white, glossy	**MTN6214-4044**
polar white, glossy	**MTN6214-4019**
aluminium	**MTN6214-4060**
stainless steel	**MTN6214-4146**

For Artec, Trancent, Antique.
Convenient control unit with 8 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light.
With room temperature control unit and display.
With integrated piezoelectric buzzer to display alarm states and IR receiver. All functions of the respective buttons can be controlled via IR remote control.
With 9 blue LEDs.
The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day (external trigger), display mode, time, switching times and brightness of the display.
The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.
With integrated bus coupler. The bus is connected using a bus connecting terminal.
KNX software functions:
Functions of the push-buttons:

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

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

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

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

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

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

Monitoring function for the actual temperature, valve protection function.

Scene function.

Operation: Menu.
Transmitter: IR remote control Distance 2010 MTN570222
To be completed with: Artec frame, 1.5-gang MTN4819..
Contents: With bus connecting terminal and supporting plate.
Screw for protection against dismantling.
With protective hood for plaster.

Room temperature control units

Room temperature control unit with display

Version	Art. no.
white, glossy	**MTN6241-4044**
polar white, glossy	**MTN6241-4019**
aluminium	**MTN6241-4060**
stainless steel	**MTN6241-4146**

For Artec, Trancent, Antique.
KNX Room temperature control unit with display, labelling field, operation and status LED. The 4 buttons allow to shift set values and change operation modes.
With 5 blue LEDs.
The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day (external trigger), display mode, time, switching times and brightness of the display.
With integrated bus coupler. The bus is connected using a bus connecting terminal.
KNX software functions:
Functions of the room temperature control unit:

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

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

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

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

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

Monitoring function for the actual temperature, valve protection function.
Functions of the push-buttons:

Selection of 1- 4 operating modes each push-button. Move setpoint.
Contents: With bus connecting terminal and supporting plate.
Screw for protection against dismantling.
With protective hood for plaster.

Room temperature control units

KNX Room temperature control unit, flush-mounted/PI with 4-gang push-button interface

Version	Art. no.
white, glossy	**MTN616944**
polar white, glossy	**MTN616919**
aluminium	**MTN616960**
varnished stainless steel	**MTN616946**

For Artec, Trancent, Antique.
The device is a room temperature control unit and a binary input. Depending on the operating mode, the current temperature setpoint value and the room temperature, a control value for the heating or cooling control unit is transmitted to the KNX. The temperature can either be recorded by the internal or the external temperature sensor which must be connected to the push-button interface.
The push-button interface generates an internal signal voltage for connecting max. four conventional push-buttons or floating contacts. Of these, two inputs can be used to connect low current LEDs.
With integrated bus coupler. The bus is connected using a bus connecting terminal.
KNX software functions:
Functions of the room temperature control unit:

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

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

Controller mode:
- Heating with one controller output
- Cooling with one controller output
- Heating and cooling with separate controller outputs
- Heating and cooling with one controller output
- 2-step heating with 2 control outputs
- 2-step cooling with 2 control outputs

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

Operation: Setpoint adjustment can be parameterised in the range with adjusting wheel; presence push-button functions can be parameterised/switched off

Valve protection, controller disable
Push-button interface functions:

Switching, dimming, external blinds, valuator (dimming valuator, extension unit for light scenes with/without memory function, temperature valuator, brightness valuator).
Push-button interface: up to 4 inputs, 2 of which can be used as outputs and one for connecting the remote sensor.
Output voltage: 5 V (SELV)
Output current: max. 0.8 mA
Max. cable length: Inputs/outputs max. 5 m, remote sensor max. 50 m
Accessories: Remote sensor for room temperature control unit UP/PI MTN616790

Remote sensor for room temperature control unit UP/PI

Version	Art. no.
black	**MTN616790**

Temperature sensor the floor/room temperature measurement
Cable length: 4 m (2 x 0.75 mm^2)
To be completed with: KNX Room temperature control unit, flush-mounted/PI with 4-gang push-button interface
System M MTN6167.., MTN6168.., Artec/Trancent/Antique MTN6169..

Room temperature control unit Altira

KNX Room temperature control unit with display

Version	Art. no.
white	**ALB45154**
aluminium	**ALB46154**

2 modules
In Altira design.
KNX Room temperature control unit with display and 4 buttons. 2 buttons allow to shift set values and change operation modes, the other 2 buttons are used for navigation in the menu.
The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day (external trigger), display mode, time, switching times and brightness of the display.
With integrated bus coupler. The bus is connected using a bus connecting terminal.
KNX software functions:
Functions of the room temperature control unit:

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

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

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

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

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

Monitoring function for the actual temperature, valve protection function.
Functions of the push-buttons:

Selection of 1- 4 operating modes each push-button. Move setpoint.
Contents: With bus connecting terminal.

Room temperature control unit Unica

KNX Room temperature control unit with display

Version		Art. no.
☐	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 units

KNX Room temperature control unit with display

Version	Art. no.
☐ white	**MGU5.534.18**
ivory	**MGU5.534.25**

2 modules
In Unica design.
KNX Room temperature control unit with display and 4 buttons. 2 buttons allow to shift set values and change operation modes, the other 2 buttons are used for navigation in the menu.
The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day (external trigger), display mode, time, switching times and brightness of the display.
With integrated bus coupler. The bus is connected using a bus connecting terminal.
KNX software functions:
Functions of the room temperature control unit:

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

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

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

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

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

Monitoring function for the actual temperature, valve protection function.
Functions of the push-buttons:

Selection of 1- 4 operating modes each push-button. Move setpoint.
Contents: With fixing frame.
With bus connecting terminal.

Room temperature control units

KNX Room temperature control unit with display

Version	Art. no.
☐ white	**MGU50.534.18**
ivory	**MGU50.534.25**

2 modules
In Unica design.
KNX Room temperature control unit with display and 4 buttons. 2 buttons allow to shift set values and change operation modes, the other 2 buttons are used for navigation in the menu.
The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day (external trigger), display mode, time, switching times and brightness of the display.
With integrated bus coupler. The bus is connected using a bus connecting terminal.
KNX software functions:
Functions of the room temperature control unit:

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

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

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

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

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

Monitoring function for the actual temperature, valve protection function.
Functions of the push-buttons:

Selection of 1- 4 operating modes each push-button. Move setpoint.
Contents: With fixing frame and claws.
With bus connecting terminal.

Room temperature control unit Unica Top

KNX Room temperature control unit with display

Version		Art. no.
■	aluminium	**MGU3.534.30**
■	graphite	**MGU3.534.12**

2 modules
In Unica Top design.
KNX Room temperature control unit with display and 4 buttons. 2 buttons allow to shift set values and change operation modes, the other 2 buttons are used for navigation in the menu.
The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day (external trigger), display mode, time, switching times and brightness of the display.
With integrated bus coupler. The bus is connected using a bus connecting terminal.
KNX software functions:
Functions of the room temperature control unit:

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

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

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

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

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

Monitoring function for the actual temperature, valve protection function.
Functions of the push-buttons:

Selection of 1- 4 operating modes each push-button. Move setpoint.
Contents: With bus connecting terminal.

Room temperature control units

KNX Room temperature control unit with display

Version	Art. no.
aluminium	**MGU5.534.30**
graphite	**MGU5.534.12**

2 modules
In Unica Top design.
KNX Room temperature control unit with display and 4 buttons. 2 buttons allow to shift set values and change operation modes, the other 2 buttons are used for navigation in the menu.
The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day (external trigger), display mode, time, switching times and brightness of the display.
With integrated bus coupler. The bus is connected using a bus connecting terminal.
KNX software functions:
Functions of the room temperature control unit:

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

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

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

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

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

Monitoring function for the actual temperature, valve protection function.
Functions of the push-buttons:

Selection of 1- 4 operating modes each push-button. Move setpoint.
Contents: With fixing frame.
With bus connecting terminal.

Room temperature control units

KNX Room temperature control unit with display

Version		Art. no.
■	aluminium	**MGU50.534.30**
■	graphite	**MGU50.534.12**

2 modules
In Unica Top design.
KNX Room temperature control unit with display and 4 buttons. 2 buttons allow to shift set values and change operation modes, the other 2 buttons are used for navigation in the menu.
The room temperature control unit can be used for heating and cooling with infinitely adjustable KNX valve drives or to trigger switch actuators and heating actuators. With the white backlit display for showing e.g. the time, date, temperature and operating mode. Menu for setting default operating modes, setpoint value, working/non-working day (external trigger), display mode, time, switching times and brightness of the display.
With integrated bus coupler. The bus is connected using a bus connecting terminal.
KNX software functions:
Functions of the room temperature control unit:

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

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

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

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

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

Monitoring function for the actual temperature, valve protection function.
Functions of the push-buttons:

Selection of 1- 4 operating modes each push-button. Move setpoint.
Contents: With fixing frame and claws.
With bus connecting terminal.

Devices for individual room temperature control

KNX valve drive with status LED and 2 inputs

Version	Art. no.
	MTN6921-0001

EMO valve drive for heating valves. The device has 2 inputs for window contacts or presence detectors for instance.
Valve lift display via red LEDs. With automatic valve lift detection. The valve drive can be connected directly to the KNX. A separate power supply is not required. With integrated bus coupler.
Power consumption: max. 10 mA
Lift: max. 7,5 mm
Positioning force: 120 N
Type of protection: IP 21
Protection class: III as per EN 60730
Installation: Snaps onto the valve adapter
Dimensions: (H x Wx D) 82 x 50 x 65 mm
Contents: With 2 valve adapters (VA10/VA78).

EMO valve drive with 2 binary inputs

Version	Art. no.
polar white	**MTN639118**

Electromotive proportional valve drive with integrated bus coupler and microprocessor control with automatic valve lift detection. With two integrated binary inputs.
The valve drive can be connected directly to the KNX. A separate power supply is not required.
KNX software functions: Control value. Actual position. Status. Forced position (window “Open” detection, lower and upper limit for basic temperature control of underfloor heating for example). Binary inputs. Limit value.
Power consumption: typ. 10 mA
(= 240 mW; approx. 2 BCU modules)
Lift: min. 1.0 mm; max. 4.5 mm
Running time: 25 s/mm
Type of protection: IP 43 in line with EN 60529 (for vertical installation)
Protection class: III in line with EN 60730
Connecting cable: 1 m fixed; J(E)YY 3x2x0.6
Connection to bus line: via bus connecting terminal
Installation: suitable for all Heimeier thermostatic valve bodies and three-way changeover valves
Accessories: Programming magnet MTN639190

Room temperature control units

EMO valve drive

Version	Art. no.
polar white	**MTN639119**

Electromotive proportional valve drive with integrated bus coupler and microprocessor control with automatic valve lift detection.
The valve drive can be connected directly to the KNX. A separate power supply is not required.
KNX software functions: Setpoint position (control value). Actual position. Status signal. Forced position. Cyclical monitoring.
Power consumption: max. 12 mA at 20 V (= 240 mW)
Lift: max. 4.5 mm
Running time: 25 s/mm
Type of protection: IP 43 in line with EN 60529 (for vertical installation)
Protection class: III in line with EN 60730
Connection cable: 1 m fixed; J-Y (St) Y 1 x 2 x 0.6
Connection to bus line: via bus connecting terminal
Installation: Fits all Heimeier thermostat valve bases
Accessories: Programming magnet MTN639190

Programming magnet

Version	Art. no.
	MTN639190

Non-contact programming of the physical address of the EMO valve drive or KNX ARGUS 220.
In KNX, to be completed with: EMO valve drive MTN639119, EMO valve drive with 2 binary inputs MTN639118, KNX ARGUS 220 MTN6325..

KNX fan coil actuator REG-K

Version	Art. no.
light grey	**MTN645094**

For heating, ventilation and air conditioning control. For controlling fan convectors with up to three speeds, as well as for controlling three-step motor drives (continuous/pulse-width-modulated) or two-step thermal drives. The actuator supports 2-pipe and 4-pipe systems.
Two floating binary inputs for window contact and level contact for condensed water container, for example. Connection of 1-speed to 3-speed fans. The multi-function push-button with room temperature control can be used to activate the fan coil actuator.
With integrated bus coupler. For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Fan control:
In automatic mode, the fan speeds are controlled dependently by the control value of the multi-function push-button. 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 multi-function push-button 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 multi-function push-button 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

Heating actuator REG-K/6x230/0.05 A

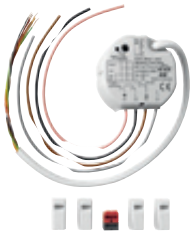
Version	Art. no.
light grey	**MTN645129**

For actuation of thermoelectric valve drives for heating or cooling ceilings. The heating actuator has 6 electronic outputs. Up to 4 valve drives can be connected to each output. The outputs are either switch activated (1 bit) or PWM signal (1 byte) activated. Each output is overload-protected and short-circuit-protected.
For installation on DIN rails TH35 according to EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.
KNX software functions: Cycle time, status feedback, summer and winter operation, cyclical monitoring of variables, locking each output in a forced position, behaviour on bus power failure and recovery, overload and short circuit status, mains power loss reporting, collective fault reporting connected to all valves, transmission of the largest 1 byte variable value.
Nominal voltage: AC 230 V, 50-60 Hz
Outputs: 6, electronic
Nominal current: 0.05 A, ohmic
Starting current: max. 1.5 A
Minimum load per used output: 1 valve drive
Number of valve drives max. 4 per output
Device width: 4 modules = approx. 72 mm
Accessories: Thermoelectric valve drive 230 V MTN639125
Contents: With bus connecting terminal and cable cover.

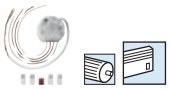
KNX heating actuator FM with 3 inputs

Version	Art. no.
	MTN6003-0005

1-gang heating actuator with three inputs for installation in a size 60 switch box. Floating contacts can be connected to the inputs.
Connection to 230 V via a flexible cable, approx. 20 cm long. The inputs and the KNX are connected via a 6-core, approx. 30 cm long, connecting cable. The connecting cable for the inputs can be extended to a max. of 5 m.
KNX software functions: Heating actuator function:
Can be controlled by a control value (1 bit or 1 byte). Status indication (1 bit or 1 byte). Valve control (de-energised open/closed). Summer or winter mode can be selected. Cyclical monitoring of control value. Emergency mode and alarm signal. Priority control (forced setting for summer and winter mode with different values). Behaviour when bus voltage recovers and fails. Overload or short circuit signal. Control of the valve drives (switching or via PWM). Function to protect valves from sticking.
Input function:
Free assignment of the switching, dimming, blind and valuator functions. Locking object. Behaviour when bus voltage recovers.
Switching: two switch objects per input. Command on rising/falling edge (ON, OFF, TOGGLE, no reaction).
Dimming: Single surface and dual-surface operation. Time between dimming and switching and dim step values. Telegram repetition and send stop telegram.
Blinds: Command on rising edge (none, UP, DOWN, TOGGLE), Operation concept (Step - Move - Step or Move - Step). Time between short and long operation. Slat adjustment time.
Valuator and Scene ext. input: Edge (push-button as make contact, push-button as break contact, switch) and value on edge. Value adjustment via long push-button action for valuator. Scene ext. unit with memory function.
Nominal voltage: AC 230 V, 50/60 Hz
Switch contact: Triac
Nominal current: 5 to 25 mA, max. 2 valve drives
Inputs: 3
Temperature range: -5 °C to 45 °C
Type of protection: IP 20
Dimensions: 53x53x28 (WxHxD)
Note: For installation in a double box or an electronic box (Kaiser). There must be a minimum gap of 4mm between the 230V connection and the connection for the KNX/Inputs (SELV)



KNX blind and heating actuator with 3 inputs



Version	Art. no.
	MTN6003-0006

1-gang blind actuator and 1-gang heating actuator with three inputs for installation in a size 60 switch box. Floating contacts can be connected to the inputs.
The inputs have already been assigned to the actuator at the factory, enabling operation without programming.
Connection to 230 V via a flexible cable, approx. 20 cm long. The inputs and the KNX are connected via a 6-core, approx. 30 cm long, connecting cable. The connecting cable for the inputs can be extended to a max. of 5 m.
KNX software functions: Blind actuator function:
Operation mode: Blinds, roller shutters, awnings or ventilation flaps. Raising or lowering times with extension for the upper limit position. Status feedback of the position or of the slat position. Active/passive status feedback, cycl. status feedback function. Up to 5 safety functions (3 wind alarms, 1 rain alarm, 1 frost alarm). Cycl. monitoring. Sun protection function with fixed and variable positions. Shading controls with heating/cooling automatic mode and presence function. Behaviour when bus voltage fails/recovers. Status feedback delay after bus voltage recovery. Priority function. 8 Scene function. Memory function for scenes.
Heating actuator function:
Can be controlled by a control value (1 bit or 1 byte). Status indication (1 bit or 1 byte). Valve control (de-energised open/closed). Summer or winter mode can be selected. Cyclical monitoring of control value. Emergency mode and alarm signal. Priority control (forced setting for summer and winter mode with different values). Behaviour when bus voltage recovers and fails. Overload or short circuit signal. Control of the valve drives (switching or via PWM). Function to protect valves from sticking.
Input function:
Free assignment of the switching, dimming, blind and valuator functions. Locking object. Behaviour when bus voltage recovers.
Switching: two switch objects per input. Command on rising/falling edge (ON, OFF, TOGGLE, no reaction).
Dimming: Single surface and dual-surface operation. Time between dimming and switching and dim step values. Telegram repetition and send stop telegram.
Blinds: Command on rising edge (none, UP, DOWN, TOGGLE), Operation concept (Step - Move - Step or Move - Step). Time between short and long operation. Slat adjustment time.
Valuator and Scene ext. input: Edge (push-button as make contact, push-button as break contact, switch) and value on edge. Value adjustment via long push-button action for valuator.
Scene ext. unit with memory function.
Nominal voltage: AC 230 V, 50/60 Hz
Blind output
Switching current: 3 A, AC1
Nominal output
Motor: AC 230 V, 600 VA
Heating output
Switch contact: Triac
Nominal current: 5 to 25 mA, max. 2 valve drives
Inputs: 3
Temperature range: -5 °C to 45 °C
Type of protection: IP 20
Dimensions: 53x53x28 (WxHxD)
Note: For installation in a double box or an electronic box (Kaiser). There must be a minimum gap of 4mm between the 230V connection and the connection for the KNX/Inputs (SELV)

Thermoelectric valve drive 230 V

Version	Art. no.
polar white	**MTN639125**

Thermoelectric valve drive for opening and closing valves. For 2-step or PWM control of heating, air conditioning and ventilation systems, individual room control of surface heaters, control of heating circuit distributors, radiators, convector heaters, cooling ceilings. Operation is carried out by the heating actuator REG-K/ 6x230/0.05 A or a room temperature control unit (230 V) with 2-step or PWM output.
Valve adapters permit compatibility with a variety of valve bodies and heating circuit distributors.

- First-open function: The drive is factory-set to de-energised open. This allows the heating to be operated during the building shell phase.
- De-energised closed
- Functional display (open, closed, intermediate settings)
- Adjustment control
- Protection against dismantling
- Plug-in connecting cable
- Plug-in assembly

Supply voltage: AC 230 V, 50/60 Hz
Starting current: max. 300 mA for max. 200 ms
Operating current: 8 mA
Power consumption: 1.8 W
Lift: approx. 4 mm
Running time: 45 s/mm
Positioning force: 100 N
Circulating medium temperature: 0-100°C
Type of protection: IP 54 / II, in all installation positions
Connecting cable: 1 m, 2x0.75 mm² PVC
Dimensions: 60x44x61 mm (HxWxD)
To be completed with: Room temperature control insert with switch MTN536302/04
In KNX, to be completed with: Heating actuator REG-K/6x230/0.05 A MTN645129, KNX fan coil actuator REG-K MTN645094, KNX heating actuator FM with 3 inputs MTN6003-0005, KNX blind and heating actuator with 3 inputs MTN6003-0006
Accessories: Valve adapter VA50 for thermoelectric valve drive MTN639150, Valve adapter VA78 for thermoelectric valve drive MTN639178, Valve adapter VA80 for thermoelectric valve drive MTN639180

Room temperature control units

Thermoelectric valve drive 24 V

Version	Art. no.
polar white	**MTN639126**

Thermoelectric valve drive for opening and closing valves. For 2-step or PWM control of heating, air conditioning and ventilation systems, individual room control of surface heaters, control of heating circuit distributors, radiators, convector heaters, cooling ceilings. Fan coil actuator REG-K or a room temperature control unit (24 V) with 2-step or PWM output activates.
Valve adapters permit compatibility with a variety of valve bodies and heating circuit distributors.

- First-open function: The drive is factory-set to de-energised open. This allows the heating to be operated during the building shell phase.
- De-energised closed
- Functional display (open, closed, intermediate settings)
- Adjustment control
- Protection against dismantling
- Plug-in connecting cable
- Plug-in assembly

Supply voltage: AC/DC 24 V +20%/-10%, 0-60 Hz
Starting current: max. 250 mA for max. 2 min
Operating current: 75 mA
Power consumption: 1.8 W
Lift: approx. 4 mm
Running time: 45 s/mm
Positioning force: 100 N
Medium temperature: 0-100°C
Type of protection/protection class: IP 54 / II, in all installation positions
Connecting cable: 1 m, 2x0.75 mm² PVC
Dimensions: 60 x 44 x 61 mm (HxWxD)
To be completed with: Room temperature control insert with switch MTN536302/04, Power supply REG, AC 24 V/1 A MTN663529
In KNX, to be completed with: Heating actuator REG-K/6x230/0.05 A MTN645129, KNX fan coil actuator REG-K MTN645094, KNX heating actuator FM with 3 inputs MTN6003-0005, KNX blind and heating actuator with 3 inputs MTN6003-0006, Power supply REG, AC 24 V/1 A MTN663529
Accessories: Valve adapter VA50 for thermoelectric valve drive MTN639150, Valve adapter VA78 for thermoelectric valve drive MTN639178, Valve adapter VA80 for thermoelectric valve drive MTN639180

Valve adapter VA50 for thermoelectric valve drive

Version	Art. no.
	MTN639150

For Honeywell+Braukmann, Reich, Landis+Gyr, MNG, Cazzagniga.
Valve adapters permit compatibility with a variety of valve bodies and heating circuit distributors
To be completed with: Thermoelectric valve drive 230 V MTN639125, Thermoelectric valve drive 24 V MTN639126

Valve adapter VA78 for thermoelectric valve drive

Version	Art. no.
	MTN639178

For Danfoss RA.
Valve adapters permit compatibility with a variety of valve bodies and heating circuit distributors
To be completed with: Thermoelectric valve drive 230 V MTN639125, Thermoelectric valve drive 24 V MTN639126

Valve adapter VA80 for thermoelectric valve drive

Version	Art. no.
	MTN639180

For Heimeier, Herb, Onda, Schlösser (from 1993), Oventrop M30x1.5, TeSa.
Valve adapters permit compatibility with a variety of valve bodies and heating circuit distributors
To be completed with: Thermoelectric valve drive 230 V MTN639125, Thermoelectric valve drive 24 V MTN639126

Accessories

Power supplies

Power supply REG, 24 V DC / 0.4 A

Version	Art. no.
light grey	**MTN693003**

Power supply for 24 V binary inputs.
For installation onto DIN rails EN 50022.
With integrated overload and short-circuit protection.
For installation on DIN rails TH35 according to EN 60715.
Primary supply: AC 230 V, 48-63 Hz
Output voltage: DC 24 V +/- 3 %
Output current: max. 0.4 A
Output power: max. 10 W
Device width: 1 module = approx. 18 mm
For supplying power to: Binary input REG-K/4x24 MTN644892, Binary input REG-K/8x24 MTN644792, KNX/IP router REG-K MTN680329, IP touch panel 10" MTN683090

Power supply REG, 24 V DC / 1.25 A

Version	Art. no.
light grey	**MTN693004**

Power supply for 24 V binary inputs, REG-K panel control, KNX/IP router REG-K, 10" IP touch panel.
With integrated overload and short-circuit protection.
For installation on DIN rails TH35 according to EN 60715.
Primary supply: AC 100-240 V, 50-60 Hz
Output voltage: DC 24 V +/- 3 %
Output current: max. 1.25 A
Output power: max. 30 W
Device width: 4 modules = approx. 72 mm
For supplying power to: Binary input REG-K/4x24 MTN644892, Binary input REG-K/8x24 MTN644792, KNX/IP router REG-K MTN680329, IP touch panel 10" MTN683090, TeleController Plus REG-K MTN680790

Power supply REG, AC 24 V/1 A

Version	Art. no.
light grey	**MTN663529**

Power supply for 24 V binary inputs, weather station REG-K/4-gang, analogue input module REG-K/4-gang, rain sensor, wind sensor with 0 - 10 V interface and heating, KNX/IP router REG-K.
With fuse.
For installation on DIN rails TH35 according to EN 60715.
Primary supply: AC 230 V, +/- 10 %, 50-60 Hz
Output voltage: AC 24 V
Output current: max. 1 A
Fuse: 5x20 mm, 250 V, T 160 mA
Device width: 5 modules = approx. 90 mm
For supplying power to: Binary input REG-K/8x24 MTN644792, Weather station REG-K/4-gang MTN682991, Analogue input module REG/4-gang MTN682192, Rain sensor MTN663595, Wind sensor with 0-10 V interface and heating MTN663592, KNX/IP router REG-K MTN680329, Thermoelectric valve drive 24 V MTN639126
Contents: With spare fuse.

Office Roombox

Roombox is a new innovative device for electrical distribution, protection, electrical energy metering and control for lighting, shutter and HVAC circuits in office buildings.

2 or 3 applications:

- **Lighting circuits supply and control.**
- **Heating ventilation and air conditioning (HVAC) circuits supply and control.**
- **Shutter/roller blinds circuits supply and control.**

DB123797

Roombox

DB123795

Left-hand side shutter output

Right-hand side shutter output

Window-side dimmable lighting output

Corridor-side dimmable lighting output

HVAC output
(230 V valve actuator KNX only)

Window-side ON/OFF lighting output

Corridor-side ON/OFF lighting output

Function

Electrical distribution

- Power input: 1 x single phase 16 A, 230 V, +10 %, -15 % - 50 Hz (2.5 mm^2 cable).
- Power output: 12 x single phase of 600 VA max (1.5 mm^2 cable).

Electrical protection

- Incomer main protection: 16 A, C curve.
- Individual output protection with warranted selectivity.
- Protection via static switch technology against:
  - short circuit: Icc = 10 kA
  - overload: In = 2.6 A
  - earth leakage: IΔn = 10 mA.
- Remote reset capability of static switch.

Energy metering

- Class 1 Energy meter providing kW/h reading for:
  - total roombox consumption.
- Class 2 Energy meter providing kW/h reading for:
  - total lighting consumption
  - total HVAC electrical consumption.

Control

- Inputs:
  - 12 digital input for single / double gang push button or window contact
  - 4 combined analog and digital input for presence detection and light level sensor
  - optional RF zigbee antennae module compatible with self powered switches form Schneider Electric.
- Controlled outputs (as per reference):
  - lighting circuits: ON/OFF, Dimming – DALI
  - automated shutters and blinds: UP/DOWN/TILT(slat angle change) on 220-230 V motors
  - power supply to HVAC terminal controller or supply and control of 230 V valve

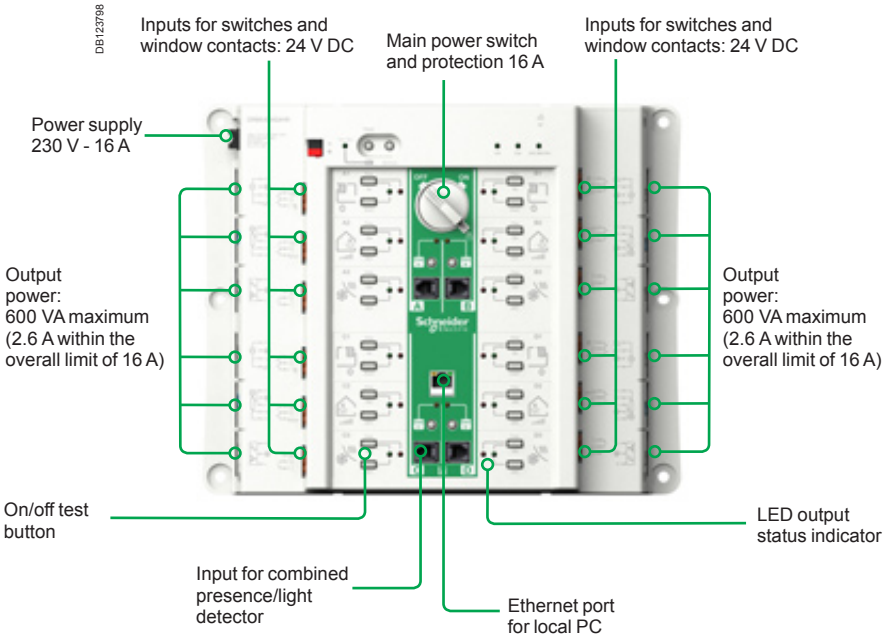
- Communication protocols: KNX.
- Configuration:
  - automatic inputs recognition with predefined settings and assignment
  - easy local zone assignment
  - predefined energy optimisation scenario.

Installation

- Horizontal or vertical mounting.
- 4 x M6 screws for direct surface mounting or Din rail fixing with standard accessories.

Description

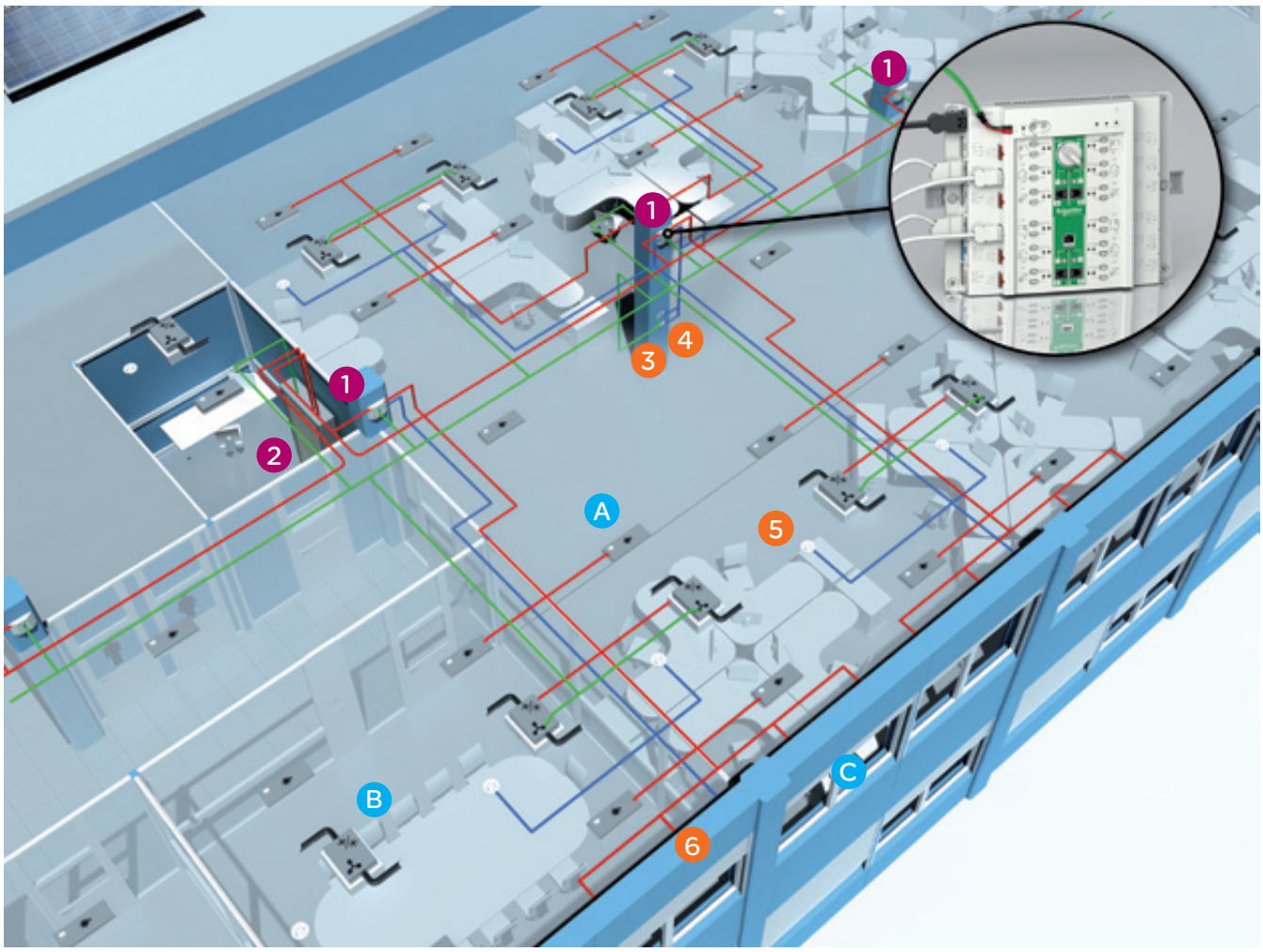
DB123798



Office Roombox

Electrical and control architecture

DB123794



1 Roombox

2 BMS
Roombox works either on its own or as part of your BMS (on KNX)

Upstream

■ **A single electrical circuit** powers several Roombox units ▬.
■ **A single communication cable** (KNX bus) links HVAC controllers and Roombox units to each other ▬.
■ **No additional cabling** needed to link Roombox to your supervision system

Downstream from Roombox

■ Roombox powers and controls each system individually, **which reduces the amount of cabling needed and makes installation** in drop ceilings easier ▬.
■ You can even opt for RF (radio frequency) instead of cabling downline from the Roombox ▬.

Sensors

3 Pushbutton roller blind/shutter control or batteryless and wireless pushbutton

4 Pushbutton light control or batteryless and wireless pushbutton light control

5 Roombox multisensor motion detector and light sensor

6 Open/closed window contact

Equipments

A Lighting

B Heating, Ventilation and Air Conditioning (HVAC)

C Blinds/roller shutters

Office Roombox

Technical data

Office Roombox		KNX			
Reference	Standard product	ORBK4D4S4HW	ORBK4L4S4HW	ORBK8D0S4HW	ORBK8L0S4HW
	With RF interface	ORBK4D4S4HR	ORBK4L4S4HR	ORBK8D0S4HR	ORBK8L0S4HR
Power					
Mains power input		16 A			
Output circuits		2.6 A, 600 VA max			
Metering		Class 1, Class 2			
Communication protocol					
KNX		■	■	■	■
LON		–	–	–	–
Controlled output power circuits x 12					
Lighting circuits (1)		**x 4**	**x 4**	**x 8**	**x 8**
ON/OFF		■	■	■	■
Dimming via DALI		■	No	■	No
Daylight harvesting		■	No	■	No
Presence control		■	■	■	■
Automated shutters and roller blinds circuits		**x 4**	**x 4**	**No**	**No**
UP/DOWN		■	■	No	No
TILT (slat angle change)		■	■	No	No
HVAC circuits (2)		**x 4**	**x 4**	**x 4**	**x 4**
230 V power supply		■	■	■	■
230 V valve control		■	■	■	■
Inputs x 16					
Pushbutton for lighting		**x 4**	**x 4**	**x 8**	**x 8**
Input types		Single/double impulse pushbutton, rocker switch			
Pushbutton for automated shutters and roller blinds		**x 4**	**x 4**	**No**	**No**
Input types		Double impulse pushbutton			
Window contact		**x 4**	**x 4**	**x 4**	**x 4**
Input types		Normally closed (normally open configured via ETS)			
Multi-sensor		**x 4**	**x 4**	**x 4**	**x 4**
Input types		Analogue (1-10 V) for light level, Digital for presence			
Connection					
Mains supply		Wieland GST18, 3 poles			
Power outputs		Wieland GST15, 3, 4 or 5 poles according to load type			
Digital inputs		Wieland GST15, 3 poles with mechanical key			
Multi-sensor input		RJ12 jack			
Environment					
Operating temperature		0°C to + 50°C			
Storage temperature		-15°C to + 65°C			
Humidity		0-95 % non-condensing			
Degree of protection	When no connectors on	IP20			
	When all connectors on	IP30			
		IK07			
Compliance with standards					
Switches for fixed electrical installations		IEC/EN 60669-1			
Low voltage switch gear		IEC/EN 60947-4-2 and IEC/EN 60947-4-3			
Metering		IEC/EN 61557-12			
Product information					
Dimensions L x W x H (mm)		280 x 345 x 89			
Weight (g)		2500			
Material		Polycarbonate UL94 V0 rated			
Color		RAL 9003			

(1) Can be converted to a HVAC circuit through programming in KNX range.
(2) Can be converted to a ON/OFF lighting circuit through programming in KNX range.

Office Roombox accessories

Presence detector and light-level sensor

Version	Art. no.
	MTN6901-0000

Presence detection indoors. The presence and brightness sensor detects smaller movements in the room. The sensor is connected to the Roombox via the MTN6901-0003 (length 15 m) cable which is available as an accessory.
The sensor has two sockets allowing through-wiring to other presence and brightness sensors. The second presence detector detects movement but does not detect brightness. The extension cable MTN6901-0005 (length 15 m) for the presence and brightness sensor is available for this. The sensor is installed in 68 mm ceiling openings. Area of application: e.g. offices, schools, public buildings, homes. Optimum installation height of 2.50 m. With the surface-mounted housing MTN6901-0001, the sensor can also be installed in non-suspended ceilings.
Nominal voltage: DC 16-24 V +10 %
Current consumption: max.10 mA
Connection: to the Roombox via accessory cable (art. no. MTN6901-0003)
Installation: flush mounting or surface mounting surface-mounted housing
Ceiling cut-out: Ø 68 mm
Mounting height: optimal 2.5 m, at least 1.7 m
Angle of detection: 360°
Range: Diameter max. 8 m around the installation site (at 2,50 m mounting height).
Number of levels: 5
Number of zones: 71 with 284 switching segments
Light sensor: 0-10V corresponds to approx. 0 to 900 Lux
Type of protection: IP 20
Ambient temperature: +5 to +45 °C (operation)
EC guidelines: EMC guideline 2004/108/EEC
Accessories: Surface-mounted housing for presence detector and light-level sensor MTN6901-0001, Extension cable for presence detector and light-level sensor 15 m MTN6901-0005
For Roombox, to be completed with: Connection cable for presence detector and light-level sensor 15 m MTN6901-0003

Surface-mounted housing for presence detector and light-level sensor

Version	Art. no.
	MTN6901-0001

The surface-mounted housing for Presence detector and light-level sensor allows them to be surface mounted.
Outer dimensions: Ø 125 mm x 40 mm (Ø x D)
Accessories from: Presence detector and light-level sensor MTN6901-0000

Connection cable for presence detector and light-level sensor 15 m

Version	Art. no.
	MTN6901-0003

In KNX, to be completed with: Presence detector and light-level sensor MTN6901-0000

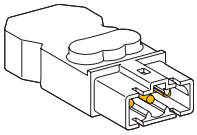
Office Roombox accessories

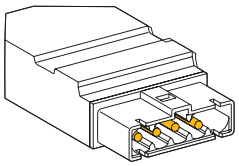
Extension cable for presence detector and light-level sensor 15 m

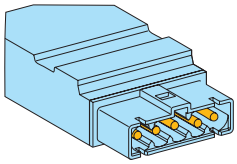
Version	Art. no.
	MTN6901-0005

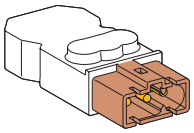
Accessories from: Presence detector and light-level sensor MTN6901-0000

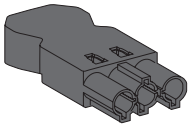
Type	Qty	Cat. no.
DIN RAIL Mounting		
DIN RAIL bolt for M6 screws	100	**NSYTDE6**
18 mm M6 screw with ring for DIN rail kit	100	**NSYS18M6H**











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

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Notes

Notes

* Make the most of your energy

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