## Content

### KNX

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How to make your building “smart”
Can all your demands be met under one roof?

Anyone planning to build a new private home or commercial building can expect more than just a lot of hard work. They also face the challenge of meeting any number of individual technical and financial requirements. And these demands have increased enormously in recent years. This is particularly true in the areas of building management and electrical installation, where many different factors have to be taken into account.

Flexibility
Considering that most buildings are designed for use over several decades, it’s inevitable that, sooner or later, the uses to which its rooms are put will change. The obvious solution: building functions which can be adapted to the needs of the user easily and cost-effectively, without tearing open walls and laying new cables.

Comfort
Everyone nowadays expects more comfort and convenience in their domestic and working lives. A modern electrical installation that can be operated conveniently, simply and comfortably makes living and working just that much easier.

Cost efficiency
Not only the one-off construction costs, but also the subsequent running costs are decisive in ensuring the cost efficiency of an investment of this kind. The following applies: the greater the flexibility with which building technology can react to new demands and be adapted to technical innovations, the greater its value for money. And when a growing environmental consciousness and increasing energy costs are taken into account, it is becoming ever clearer that building management must also incorporate intelligent solutions for energy efficiency as well.

Safety and security
If a building is to be as safe as possible, building technology must be able to react quickly and intelligently in critical situations, whether someone is on the premises or not. Given the extent and range of these different requirements, conventional electrical installations soon reach the limits of their capabilities. They can only do so much. As a result, adapting the use to which parts of the building are put can quickly prove costly, and coordinating the functioning of the different buildings is a major undertaking.

However, all this is no reason for you to change your plans. After all, there is an intelligent alternative to the conventional solution: KNX from Schneider Electric. Or to put it another way: clever buildings.
Living the good life

KNX in private buildings

In terms of comfort, take the following example: Getting cosy in the evening no longer means going from one switch or thermostat to the next. Instead, simply press a single button to activate all the desired functions in one go: blinds are lowered, atmospheric lighting is switched on and the room is heated to just the right temperature. Settings such as these (known as scenes) can be created exactly as you want them.

Intelligent blind control:
- Central control of the electrically operated roller shutters and blinds in the study, parents’ bedroom and children’s room at the press of a button.
- Automatic protection from excessive sunlight or storms is provided by awnings and blinds that react to sun and wind sensors.
- Protection against burglary is provided by time-controlled roller shutters and blinds that also protect windows when nobody is at home.

Timed heating control:
- Pleasant room temperatures via individual temperature control of the individual rooms.
- Heating costs reduced thanks to time control of the heating valves.
- A healthy sleeping climate due to automatic reduction of heating at night.
- Room temperature is automatically lowered when the windows are opened, leading to further reductions in heating costs.

Individual lighting control:
- The “Central Off” switch at the entrance door deactivates all loads, such as the lighting or appliances connected to socket-outlets.
- Individual light settings, whenever and wherever you want, in the living room, dining room, for reading or while watching TV. Easy to save and to activate. By remote control, for example, via touchscreen.
- If you hear things going bump in the night, just hit the “panic button” next to your bed to illuminate your house and garden with bright light.
- Keep burglars at bay by making it look as though someone is at home when you are absent or during long holidays.
Working made easy
KNX in commercial buildings

Flexibility and cost efficiency are particularly important when it comes to commercial buildings. This is where intelligent building management with KNX really comes into its own.

In the presentation room, for example: At the touch of a single button, you can activate a whole series of functions in preparation for a presentation: groups of luminaires are switched off or dimmed, the blinds and the projection screen are lowered to create the right conditions for the presentation, and the projector and microphone are switched on automatically. And finally, ventilation and heating create an optimal environment.

Naturally, all these different functions can be adapted to meet specific requirements.

Intelligent blind control:
- Automatic control of the sun awnings via light sensors in accordance with the current sunlight intensity.
- Automatic blind retraction via wind sensors during strong wind.
- Automatic adjustment of the blind slats in accordance with the current sunlight intensity.

Flexible building management:
- Flexible adaptation of the building functions when rooms are used for different purposes, e.g. after reorganisation or a move.
- Worldwide access to the entire building technology system via PDA, PC or touchscreen.
- Monitoring of windows and doors or underground car parks by sensors that signal all irregularities.
- Display of loads, performance curves and temperatures, immediate notification in the case of critical temperature overshoots and automatic shutdown of devices at risk.
- Display of fault signals and automatic forwarding of these signals to the responsible electrician or the building manager.
- Costly peak loads avoided since loads can be switched on and off in a systematic fashion.

Individual heating control:
- Presence-dependent room heating.
- Immediate closure of the heating valve when a window is opened.
- Heat is supplied automatically at the exact time required and individually via controllable room temperature control units. No need to turn the radiators up and down manually.

Automatic lighting control:
- Time-dependent, automatic switching off of light sources during work breaks or on weekends.
- Daylight-dependent adaptation of the lighting for optimum working conditions through light control. With intelligent heating control, energy costs can be reduced by up to 30%.
- Automatic lighting of corridors, staircase timers and rooms which are seldom used thanks to the ARGUS indoor movement detector.
The central idea of a standard for home automation and building control across different manufacturers was fundamentally moulded by Schneider Electric. Schneider Electric is one of the driving forces behind innovation and technology in building system technology. An initial complete product palette was already available in 1991. Nowadays, the Schneider Electric product range covers a full range of switch cabinet components in addition to design- and function-oriented control interfaces and sensors: universal dimming actuators, blind actuators, switch actuators, power supplies, binary inputs, gateways etc.

Further information about the worldwide standard for KNX building system technology can be obtained from the home page of the KNX Association (www.konnex.org).

All buildings are made intelligent with KNX

KNX Technology

KNX unites functions under one roof which were previously controlled separately

KNX – the only worldwide open standard for home automation and building system technology in accordance with EN 50090

EN 50090 – the European norm for electrical installation technology for houses and buildings is based on the KNX standard. KNX is the only protocol that meets this norm.

The success story of KNX in numbers:
- 103 member companies
- Represented in 70 countries
- Over 21,000 ETS users
- 100 training centres
- 40 partners from science and further education

Facts and figures which give you the security of investing in an established, future-oriented technology.
With conventional electrical installations, you have to determine in advance how and where your building’s switching systems will be installed, before construction even commences. But with KNX from Schneider Electric, you can keep your options open. That’s because everything in the system can be changed or extended at any time – without the usual mess and without laying new cables.

In addition, all building technology devices and installations are connected via a single bus line. The bus line is laid in parallel to the 230 V power supply. When you activate a sensor (for example, a push-button), an actuator (e.g., the roller shutter control) will carry out all the switching commands required.

The conventional solution: many separate lines, meaning less flexibility

The intelligent solution: KNX – one system, one standard, many multi-task functions for maximum flexibility
## System components

### Bus voltage supply

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<th>Description</th>
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<tr>
<td>KNX power supply REG-K/160 mA</td>
<td>MTN684016</td>
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<tr>
<td>KNX power supply REG-K/160 mA with emergency input</td>
<td>MTN683816</td>
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<td>KNX power supply REG-K/320 mA</td>
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<td>KNX power supply REG-K/320 mA with emergency input</td>
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<td>REG emergency power supply</td>
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## System coupler

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<td>KNX Logic module Basic REG-K</td>
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## System accessories

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<td>IR remote control Distance 2010</td>
<td>MTN570222</td>
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Interfaces/gateways

Data interfaces

- Central plate with square opening
  - MTN296019
  - MTN296025
  - MTN297960
  - MTN297914
  - MTN297844
  - MTN297846
  - MTN297819
  - MTN297860

- USB interface, flush-mounted
  - MTN681799
  - USB interface REG-K
  - MTN681829

Gateways

- TeleController Plus REG-K
  - MTN680790
- Handset for TeleController
  - MTN660790
- KNX DALI gateway REG-K/1/16(64)/64
  - MTN680191
- KNX/IP router REG-K
  - MTN680329

Push-button

Push-buttons System M

- Push-button, 1-gang plus
  - MTN617119
  - MTN617125
  - MTN627560
  - MTN627514

- Push-button, 4-gang plus
  - MTN617419
  - MTN617425
  - MTN627860
  - MTN627814

Labelling sheets for push-buttons
  - MTN618319
  - MTN618320
  - MTN618419
  - MTN618420

Protective hood for plaster
  - MTN627591

Push-button 2-gang plus with room temperature control unit
  - MTN627319
  - MTN627325
  - MTN623214
  - MTN623260

Flush-mounted module for multi-function push-button with room temperature control unit
  - MTN634619
  - MTN634625
  - MTN633614
  - MTN633660

Flush-mounted module for multi-function push-button with room temperature control unit and IR receiver
  - MTN634619
  - MTN634625
  - MTN633614
  - MTN633660
Push-buttons Artec/Trancent/Antique

- Rocker for 1-gang push-button module
- Rocker for 1-gang push-button module with up/down arrow imprint
- KNX push-button module, 1-gang
- Rockers for 2-gang push-button module
- Rockers for 2-gang push-button module with up/down arrow imprint
- KNX push-button module, 2-gang
- Rockers for 2-gang push-button module with up/down arrow and 1/0 imprint
- Rockers for 2-gang push-button module with up/down arrow imprint
- Push-button, 1-gang plus
- Push-button, 2-gang plus
- Push-button, 3-gang plus
- Push-button, 4-gang plus
- Push-button, 4-gang plus with IR receiver
- Push-button 2-gang plus with room temperature control unit
- Push-button 4-gang plus with room temperature control unit
- Multi-function push-button, 2-gang with room temperature control unit
- Flush-mounted module for multi-function push-button with room temperature control unit
- Multi-function push-button, 4-gang with room temperature control unit
- Flush-mounted module for multi-function push-button with room temperature control unit
- Protective hood for plaster
- Labelling sheets for push-button plus
- Rocker for 1-gang push-button module
- Rocker for 1-gang push-button module with 1/0 imprint
- Rocker for 1-gang push-button module with up/down arrow imprint
- KNX push-button module, 1-gang
- Rockers for 2-gang push-button module
- Rockers for 2-gang push-button module with 1/0 and up/down arrow imprint
- Rockers for 2-gang push-button module with up/down arrow and 1/0 imprint
- Rockers for 2-gang push-button module with up/down arrow imprint
- Push-button, 2-gang plus
- Push-button, 2-gang plus with room temperature control unit
- Push-button 4-gang plus with room temperature control unit
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- Multi-function push-button, 2-gang with room temperature control unit
- Multi-function push-button, 4-gang with room temperature control unit
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- Flush-mounted module for multi-function push-button with room temperature control unit
- Protective hood for plaster
- Labelling sheets for push-button plus
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- Rocker for 1-gang push-button module with 1/0 imprint
- Rocker for 1-gang push-button module with up/down arrow imprint
- KNX push-button module, 1-gang
- Rockers for 2-gang push-button module
- Rockers for 2-gang push-button module with 1/0 and up/down arrow imprint
- Rockers for 2-gang push-button module with up/down arrow and 1/0 imprint
- Rockers for 2-gang push-button module with up/down arrow imprint
- Push-button, 2-gang plus
- Push-button, 2-gang plus with room temperature control unit
- Push-button 4-gang plus with room temperature control unit
- Multi-function push-button, 2-gang with room temperature control unit
- Multi-function push-button, 4-gang with room temperature control unit
- Flush-mounted module for multi-function push-button with room temperature control unit
- Flush-mounted module for multi-function push-button with room temperature control unit
- Protective hood for plaster
- Labelling sheets for push-button plus
Rockers for 2-gang push-button module
- MTN626244
- MTN626246
- MTN626219
- MTN626260

Rockers for 2-gang push-button module with 1/0 and up/down arrow imprint
- MTN626644
- MTN626646
- MTN626619
- MTN626660

Rockers for 2-gang push-button module with up/down arrow and 1/0 imprint
- MTN626744
- MTN626719
- MTN626760
- MTN626746

KNX push-button module, 2-gang
- MTN626299

Push-button Trancent

Control electronics, 1- to 4-gang
- MTN623190

Bus coupler 2, flush-mounted
- MTN690299

Glass sensor cover, 1-gang
- MTN569100
- MTN569101

Glass sensor cover, 2-gang
- MTN569200
- MTN569201

Glass sensor cover, 3-gang
- MTN569300
- MTN569301

Cover foil for glass sensor cover
- MTN569190
- MTN569290
- MTN569390

Trancent frame, 1-gang
- MTN482160

Trancent frame, 2-gang
- MTN482260

Trancent frame, 3-gang
- MTN482360

Push-buttons Altira

KNX push-button 1-gang
- ALB45150
- ALB46150

KNX 1-gang push-button with IR receiver
- ALB45152
- ALB46152

KNX push-button 2-gang
- ALB45151
- ALB46151
Quick selection guide

### Push-buttons Unica

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### Binary inputs

- Push-button interface, 2-gang plus
  MTN670802
- Push-button interface, 4-gang plus
  MTN670804
- Binary input REG-K/4x10
  MTN644492
- Binary input REG-K/8x10
  MTN644592
Binary input REG-K/4x24
MTN644892
Binary input REG-K/8x24
MTN644792
Binary input REG-K/4x230
MTN644992
Binary input REG-K/8x230
MTN644692

Movement detectors

KNX ARGUS 220
MTN632519 MTN632515 MTN632569

Movement detectors System M, Artec, Trancent, Antique

KNX ARGUS 180, flush-mounted
MTN631619 MTN631625 MTN632660

KNX ARGUS 180/2.20 m flush-mounted
MTN631719 MTN631725 MTN632714 MTN632760

Movement detectors Altira

KNX Movement detector 180
ALB45153 ALB46153

Movement detectors Unica

KNX Movement detector 180
MGU3.533.18 MGU3.533.25

KNX Movement detector 180
MGU5.533.18 MGU5.533.25

KNX Movement detector 180
MGU50.533.18 MGU50.533.25
## Movement detectors Unica Top

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## KNX presence detector

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<td>KNX ARGUS Presence</td>
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<td>KNX ARGUS Presence with light control and IR receiver</td>
<td>MTN630919, MTN630960</td>
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| Surface-mounted housing for ARGUS Presence                                   | MTN550619    |
| KNX ARGUS Presence 180/220 m flush-mounted                                   | MTN630419, MTN630425, MTN630614, MTN630660 |

## Other sensors

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<td>MTN682191</td>
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<td>Analogue input module REG/4-gang</td>
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<td>KNX Basic weather station</td>
<td>MTN663990</td>
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<td>Mast and corner fastening for KNX Basic weather station</td>
<td>MTN663992</td>
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<td>KNX brightness and temperature sensor</td>
<td>MTN663991</td>
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<td>Weather station REG-K/4-gang</td>
<td>MTN682991</td>
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<tr>
<td>Weather combi-sensor DCF-77</td>
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</table>
Time switch

- Year time switch REG-K/4/324
  MTN677129
- Year time switch REG-K/4/324 DCF-77
  MTN677029
- KNX timer REG-K
  MTN677290
- DCF77 antenna
  MTN668091
- OBELISK software
  MTN615034
- Memory chip for year time switches
  MTN668092

Switch actuators

- Switch actuator, flush-mounted/230/16
  MTN629993
- Switch actuator REG-K/2x230/10 with manual mode
  MTN649202
- Switch actuator REG-K/2x230/16 with manual mode
  MTN647393
- Switch actuator REG-K/2x230/16 with manual mode and current detection
  MTN647395
- Switch actuator REG-K/4x230/10 with manual mode
  MTN649204
- Switch actuator REG-K/4x230/16 with manual mode
  MTN647593
- Switch actuator REG-K/4x230/16 with manual mode and current detection
  MTN647595
- Switch actuator REG-K/8x230/6
  MTN648080
- Switch actuator REG-K/8x230/10 with manual mode
  MTN649208
- Switch actuator REG-K/8x230/16 with manual mode
  MTN647893
- Switch actuator REG-K/8x230/16 with manual mode and current detection
  MTN647895
- Switch actuator REG-K/12x230/10 with manual mode
  MTN649212
- Switch actuator REG-K/12x230/16, with manual mode
  MTN648493
- Switch actuator REG-K/12x230/16 with current detection and manual mode
  MTN648495
Blind/switch actuators

- Blind/switch actuator REG-K/8x/16x/10 with manual mode
  MTN649908
- Blind / switch actuator REG-K/12x/24x/10 with manual mode
  MTN649912

Blind actuators

- Blind actuator REG-K/2x/10 with manual mode
  MTN649802
- Blind actuator REG-K/4x24/6 with manual mode
  MTN648704
- Blind actuator REG-K/4x/6
  MTN646704
- Roller shutter actuator REG-K/4x/10 with manual mode
  MTN649704
- Blind actuator REG-K/4x/10 with manual mode
  MTN649804
- Blind actuator REG-K/8x/10 with manual mode
  MTN649808

Dimming actuators/control units

Dimming actuators

- Dimming actuator REG-K/2x230/300 W
  MTN646630
- Universal dimming actuator REG-K/230/1000 W
  MTN649310
- Universal dimming actuator REG-K/230/500 W
  MTN649350
- Universal dimming actuator REG-K/2x230/300 W
  MTN649330
- Universal dimming actuator REG-K/4x230/250 W
  MTN649325
- Universal dimming actuator REG-K/4x230/150 W
  MTN649315

Control units 1-10 V

- Control unit 0-10 V REG-K/1-gang with manual mode
  MTN647091
- Control unit 0-10 V REG-K/3-gang with manual mode
  MTN649991
Other actuators

Analogue actuator REG-K/4-gang
MTN682291
Analogue actuator module REG/4-gang
MTN682292

Control and display devices

Devices for display and operation

Touch panel 7"
MTN6290-0007

Inner frame set for 7” touch panel
MTN6270-0019 MTN6270-0022

Glass frame for 7” touch panel
MTN6270-0019

Metal frame for 7” touch panel
MTN6270-0019 MTN6270-0022

Aluminium frame for 7” touch panel
MTN6270-0019 MTN6270-0022

Frame for 7” touch panel
MTN6270-0019 MTN6270-0022

Flush-mounted mounting box for IP touch panel 7”
MTN6270-0001

Cavity wall mounting box for touch panel 7”
MTN6270-0002

USB cover for 7” touch panel
MTN6270-0019 MTN6270-0022

IP touch panel 10”
MTN683090

KNX module for IP touch panel
MTN683093

Real glass frame for IP touch panel 10”
MTN489960

Flush-mounted mounting box for IP touch panel 10”
MTN683091

Cavity wall mounting box for IP touch panel 10”
MTN683092
### Room temperature control units

#### Room temperature control unit System M

<table>
<thead>
<tr>
<th>Push-button 2-gang plus with room temperature control unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTN6212-0344</td>
</tr>
<tr>
<td>MTN6212-0414</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Push-button 4-gang plus with room temperature control unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTN6214-0344</td>
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<tr>
<td>MTN6214-0414</td>
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<table>
<thead>
<tr>
<th>Multi-function push-button, 2-gang with room temperature control unit, System M</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTN627319</td>
</tr>
<tr>
<td>Flush-mounted module for multi-function push-button with room temperature control unit MTN623299</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Multi-function push-button, 4-gang with room temperature control unit and IR receiver, System M</th>
</tr>
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<tbody>
<tr>
<td>MTN634619</td>
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<tr>
<td>Flush-mounted module for multi-function push-button with room temperature control unit MTN623299</td>
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<table>
<thead>
<tr>
<th>Room temperature control unit with display</th>
</tr>
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<tbody>
<tr>
<td>MTN6241-0344</td>
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<table>
<thead>
<tr>
<th>KNX Room temperature control unit, flush-mounted/PI with 4-gang push-button interface, System M</th>
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<tbody>
<tr>
<td>MTN616719</td>
</tr>
<tr>
<td>Remote sensor for room temperature control unit UP/PI MTN616790</td>
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<table>
<thead>
<tr>
<th>Room temperature control unit for properties</th>
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<tr>
<td>MTN6221-0344</td>
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<tr>
<td>MTN6221-0414</td>
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### Room temperature control unit Artec, Trancent, Antique

<table>
<thead>
<tr>
<th>Push-button 2-gang plus with room temperature control unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTN6212-4044</td>
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</table>

<table>
<thead>
<tr>
<th>Push-button 4-gang plus with room temperature control unit</th>
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<table>
<thead>
<tr>
<th>Multi-function push-button, 2-gang with room temperature control unit, Artec/Trancent/Antique</th>
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<tbody>
<tr>
<td>MTN628744</td>
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<tr>
<td>Flush-mounted module for multi-function push-button with room temperature control unit MTN623299</td>
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<table>
<thead>
<tr>
<th>Multi-function push-button, 4-gang with room temperature control unit, Artec/Trancent/Antique</th>
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<tbody>
<tr>
<td>MTN628844</td>
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<td>Flush-mounted module for multi-function push-button with room temperature control unit MTN623299</td>
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<table>
<thead>
<tr>
<th>Room temperature control unit with display</th>
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<tr>
<td>MTN6241-4044</td>
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<table>
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<tr>
<th>KNX Room temperature control unit, flush-mounted/PI with 4-gang push-button interface, Artec/Trancent/Antique</th>
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<tbody>
<tr>
<td>MTN616944</td>
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<td>Remote sensor for room temperature control unit UP/PI MTN616790</td>
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Room temperature control unit Altira

<table>
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<tr>
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<tr>
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<td>ALB46154</td>
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Room temperature control unit Unica

<table>
<thead>
<tr>
<th>KNX Room temperature control unit with display</th>
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<tr>
<td>MGU3.534.18</td>
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<table>
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<td>MGU5.534.18</td>
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<th>KNX Room temperature control unit with display</th>
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<td>MGU50.534.18</td>
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<tr>
<td>MGU50.534.25</td>
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</table>

Room temperature control unit Unica Top

<table>
<thead>
<tr>
<th>KNX Room temperature control unit with display</th>
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</thead>
<tbody>
<tr>
<td>MGU3.534.30</td>
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<tr>
<td>MGU3.534.12</td>
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</table>

<table>
<thead>
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<th>KNX Room temperature control unit with display</th>
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<tbody>
<tr>
<td>MGU5.534.30</td>
</tr>
<tr>
<td>MGU5.534.12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>KNX Room temperature control unit with display</th>
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<tbody>
<tr>
<td>MGU50.534.30</td>
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<tr>
<td>MGU50.534.12</td>
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</tbody>
</table>

Room temperature control actuator

EMO valve drive
MTN639119

EMO valve drive with 2 binary inputs
MTN639118

Programming magnet
MTN639190

KNX fan coil actuator REG-K
MTN645094

Heating actuator REG-K/6x230/0.05 A
MTN645129

Thermoelectric valve drive 230 V
MTN639125

Thermoelectric valve drive 24 V
MTN639126

Valve adapter VA50 for thermoelectric valve drive
MTN639150

Valve adapter VA78 for thermoelectric valve drive
MTN639178

Valve adapter VA80 for thermoelectric valve drive
MTN639180
## Accessories

### Power supplies

<table>
<thead>
<tr>
<th>Description</th>
<th>Model</th>
</tr>
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<tbody>
<tr>
<td>Power supply REG, 24 V DC / 0.4 A</td>
<td>MTN693003</td>
</tr>
<tr>
<td>Power supply REG, 24 V DC / 1.25 A</td>
<td>MTN693004</td>
</tr>
<tr>
<td>Power supply REG, AC 24 V/1 A</td>
<td>MTN663529</td>
</tr>
</tbody>
</table>
## System components

### Bus voltage supply

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

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>MTN684016</td>
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</tbody>
</table>

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 EN 0. The bus is connected using a bus connecting terminal; a data rail is not necessary.

- **Mains voltage:** AC 110 - 230 V, 50-60 Hz
- **Output voltage:** DC 30 V
- **Output current:** max. 160 mA, short-circuit-proof
- **Device width:** 4 TE = approx. 72 mm
- **Contents:** With bus connecting terminal and cable cover.

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

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>MTN683816</td>
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</tbody>
</table>

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 EN 0. The bus is connected using a bus connecting terminal; a data rail is not necessary.

- **Mains voltage:** AC 110 - 230 V, 50-60 Hz
- **Output voltage:** DC 30 V
- **Output current:** max. 160 mA, short-circuit-proof
- **Device width:** 4 TE = approx. 72 mm
- **Accessories:** REG-K emergency power supply, art. no. MTN683901.
- **Contents:** With bus connecting terminal and cable cover.

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

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MTN684032</td>
</tr>
</tbody>
</table>

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 EN 0. The bus is connected using a bus connecting terminal; a data rail is not necessary.

- **Mains voltage:** AC 110 - 230 V, 50-60 Hz
- **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 input**

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MTN683832</td>
</tr>
</tbody>
</table>

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 EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**Mains voltage:** AC 110 - 230 V, 50-60 Hz  
**Output voltage:** DC 30 V  
**Output current:** max. 320 mA, short-circuit-proof  
**Device width:** 4 TE = approx. 72 mm  
**Accessories:** REG-K emergency power supply, art. no. MTN683901.  
**Contents:** With bus connecting terminal and cable cover.

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

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MTN684064</td>
</tr>
</tbody>
</table>

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 EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**Mains voltage:** AC 110 - 230 V, 50-60 Hz  
**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 unit REG-K/640 mA with emergency power input**

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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</thead>
<tbody>
<tr>
<td>light grey</td>
<td>MTN683890</td>
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</table>

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 EN 60715. The bus is connected using a bus connecting terminal; a data rail is not necessary.

**Mains voltage:** AC 110 - 230 V, 50-60 Hz  
**Output voltage:** DC 30 V  
**Output current:** max. 640 mA, short-circuit-proof  
**Device width:** 4 modules = approx. 72 mm  
**Accessories:** REG-K emergency power supply, art. no. MTN683901.  
**Contents:** With bus connecting terminal and cable cover.
### System components

#### REG emergency power supply

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>light grey</td>
<td>MTN683901</td>
</tr>
</tbody>
</table>

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 EN 0. A data rail is not necessary.

**Mains voltage:** AC 110 - 230 V, 50-60 Hz  
**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  
**Accessories:** Lead gel battery, art. no. MTN68890.  
Lead gel battery, art. no. MTN68891.  
Binary input REG-K/4x24, art. no. MTN644892.  
Power supply REG, DC 24 V/0.4 A, art. no. MTN693003.  
**Contents:** With connecting terminal and cable cover

#### Lead gel battery

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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</thead>
<tbody>
<tr>
<td>7.2 Ah</td>
<td>MTN688990</td>
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</tbody>
</table>

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

#### Lead gel battery

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
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<td>MTN688991</td>
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</table>

Lead gel battery for connecting to the emergency power supply REG.  
**Nominal voltage:** DC 12 V  
**Capacity:** 18 Ah
## System components

### System coupler

**Coupler REG-K**

<table>
<thead>
<tr>
<th>Version</th>
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<tbody>
<tr>
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<td>MTN680204</td>
</tr>
</tbody>
</table>

For logical connection and electrical isolation of lines and areas. For mounting on DIN rails EN 50022. The bus is connected using a bus connecting terminal; a data rail is not necessary. Contact established with the primary and secondary line via bus connecting terminal.

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

### KNX Logic module Basic REG-K

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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<tbody>
<tr>
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<td>MTN676090</td>
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</tbody>
</table>

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.

**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
System components

System accessories

**Bus connecting terminal**

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>red/dark grey</td>
<td>MTN689701</td>
</tr>
</tbody>
</table>

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.

**Branch terminal, yellow/white**

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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</thead>
<tbody>
<tr>
<td>yellow/white</td>
<td>MTN689702</td>
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</tbody>
</table>

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.

**Blanking cover**

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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<tbody>
<tr>
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<td>MTN662319</td>
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<td>glossy</td>
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<tr>
<td>active white,</td>
<td>MTN662325</td>
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<tr>
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<tr>
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For System M.

**Blanking cover**

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<td>MTN662260</td>
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<td>varnished stainless steel</td>
<td>MTN662246</td>
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For Artec, Trancent, Antique.
**System components**

<table>
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<th>IR remote control Distance 2010</th>
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</tbody>
</table>

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

**Battery:** 2 microcells (IEC LR 03, AAA)

**Range:** up to 20 m

**Contents:** Without battery.
## Data interfaces

<table>
<thead>
<tr>
<th>Central plate with square opening</th>
<th>Central plate with square opening</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Central plate with square opening" /></td>
<td><img src="image2.png" alt="Central plate with square opening" /></td>
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</tbody>
</table>

<table>
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<th>Version</th>
<th>Art. no.</th>
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</tr>
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</table>

For System M. for loudspeaker connection inserts or flush-mounted USB interface.

## USB interface, flush-mounted

![USB interface, flush-mounted](image3.png)

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MTN681799</td>
</tr>
</tbody>
</table>

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
**Contents:** With bus connecting terminal.

## USB interface REG-K

![USB interface REG-K](image4.png)

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>light grey</td>
<td>MTN681829</td>
</tr>
</tbody>
</table>

For connecting a programming or diagnostics device with a USB1.1 or USB2 interface to the INSTABUS EIB. For installation on DIN rails EN 50022.
The bus is connected using a bus connecting terminal; a data rail is not necessary. With integrated bus coupler.
**Device width:** 2 modules = approx. 36 mm
**Contents:** With bus connecting terminal and cable cover.
Interfaces/gateways

Gateways

**TeleController Plus REG-K**

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>light grey</td>
<td>MTN680790</td>
</tr>
</tbody>
</table>

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 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, art. no. MTN660790.

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

---

**Handset for TeleController**

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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</thead>
<tbody>
<tr>
<td>anthracite</td>
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</tr>
</tbody>
</table>

Speech output of the various messages can be monitored and changed with the handset.
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.

For installation on DIN rails EN 50022. The bus is connected using a bus connecting terminal; a data rail is not necessary. The network and the DALI cable as well as the switch inputs are connected via screw terminals on the device.

**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.

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 000 telegrams.

For installation on DIN rails EN 50022. 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  
**Contents:** With bus connecting terminal.
### Push-buttons System M

<table>
<thead>
<tr>
<th>Push-button, 1-gang plus</th>
<th>Push-button, 2-gang plus</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Version</strong></td>
<td><strong>Version</strong></td>
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<td>aluminium</td>
</tr>
<tr>
<td>MTN627560</td>
<td>MTN627660</td>
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</tbody>
</table>

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, art. no. MTN618319/20. **Contents:** With protective hood for plaster. With bus connecting terminal.

### Labelling sheets for push-buttons

<table>
<thead>
<tr>
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<tr>
<td>silver</td>
<td>MTN618320</td>
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</table>

For individual labelling of the System M push-buttons with text or symbols. **Contents:** 1 sheet for every 28 products.

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

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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</thead>
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<td>MTN618420</td>
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For individual labelling of the System M multi-function push-button with IR receiver. **Contents:** 1 sheet for every 28 products.
Push-button

Push-button, 4-gang plus

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<thead>
<tr>
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</table>

Push-button, 4-gang plus with IR receiver

<table>
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<td>aluminium</td>
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</tr>
</tbody>
</table>

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, art. no. MTN618319/20.

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

Protective hood for plaster

<table>
<thead>
<tr>
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<th>Art. no.</th>
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</thead>
<tbody>
<tr>
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<td>MTN627591</td>
</tr>
</tbody>
</table>

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

Note: When the protective hood for plaster is in place, the temperature measurement of the room temperature control unit is restricted.
Push-button 2-gang plus with room temperature control unit

<table>
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<tr>
<td>aluminium</td>
<td>MTN6212-0460</td>
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</tbody>
</table>

For System M.

Convenient control unit with 4 operating buttons, operating and status display and labelling field. The operating display can also be used as an orientation light. With room temperature control unit and display. With 5 red LEDs.

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

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

**KNX software functions:**

**Functions of the push-buttons:**

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

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

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

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

Controller mode:

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

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

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

Monitoring function for the actual temperature, valve protection function.

Scene function.

Operation: Menu.

Contents: With bus connecting terminal and supporting plate.

Screw for protection against dismantling.

With protective hood for plaster.
Push-button 4-gang plus with room temperature control unit

<table>
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<th>Version</th>
<th>Art. no.</th>
</tr>
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<tbody>
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<td>aluminium</td>
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</table>

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, art. no. MTN570222.
**Contents:** With bus connecting terminal and supporting plate. Screw for protection against dismantling.
With protective hood for plaster.
Push-button

Multi-function push-button, 2-gang with room temperature control unit

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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</thead>
<tbody>
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<td>MTN623214</td>
</tr>
<tr>
<td>aluminium</td>
<td>MTN623260</td>
</tr>
</tbody>
</table>

Application module 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, 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, display mode, time, switching times and brightness.

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

KNX software functions:

Functions of the multi-function push-button:
Switching, toggling, dimming, blind control (relative or absolute), pulse edges trigger 1-, 2- 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, alarm functions. The cyclic reading of external temperature values, fan control.

Functions of the room temperature control unit:
Type of controller: 2-step control, continuous PI control, switching PI control (PWM)
Output: Continuous in the range 0..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: Menu

Accessories:
Protective hood for plaster, System M, art. no. MTN627591...

Note: Use to label conventional foils (max. thickness 0.1 mm).
For each device only one flat size 60 mounting box and one flush-mounted module are required.

Contents: Screw for protection against dismantling.

Flush-mounted module for multi-function push-button with room temperature control unit

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>MTN623299</td>
</tr>
</tbody>
</table>

For the connection of multi-function push-buttons with room temperature control unit via an application interface.
For screw mounting in the size 60 installation box. Flat design. With LED and push-button for programming.
Mounting depth: 20 mm
Contents: With bus connecting terminal.
**Push-button**

### Multi-function push-button, 4-gang with room temperature control unit and IR receiver

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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</thead>
<tbody>
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</table>

Application module 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 Distance.

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, display mode, time, switching times and brightness.

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

**KNX software functions:**

**Functions of the multi-function push-button:**
- Switching, toggling, dimming, blind control (relative or absolute), pulse edges trigger 1-, 2- 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, alarm functions, the cyclic reading of external temperature values, fan control.

**Functions of the room temperature control unit:**
- Type of controller: 2-step control, continuous PI control, switching PI control (PWM)
- Output: Continuous in the range 0..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 controller outputs
  - 2-step cooling with 2 controller outputs
- Operating modes: comfort, comfort extension, standby, night economy, frost/heat protection
- Operation: Menu
- **Transmitter:** IR remote control Distance, art. no. MTN570222.
- **Note:** Use to label conventional foils (max. thickness 0.1 mm).
- For each device only one flat size 60 mounting box and one flush-mounted module are required.
- **Contents:** With screw for tamper-proofing, adhesive label, barrier covering the IR receiver.

### Flush-mounted module for multi-function push-button with room temperature control unit

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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<tbody>
<tr>
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<td>MTN623299</td>
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</table>

For the connection of multi-function push-buttons with room temperature control unit via an application interface.

For screw mounting in the size 60 installation box. **Flat design.** With LED and push-button for programming.

- **Mounting depth:** 20 mm
- **Contents:** With bus connecting terminal.
Push-button

Rocker for 1-gang push-button module

<table>
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<tr>
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<th>Art. no.</th>
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</table>

For System M.
The rocker is attached to the 1-gang push-button module.
Accessories: Protective hood for plaster, System M, art. no. MTN627591...

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

<table>
<thead>
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</table>

For System M.
The rocker is attached to the 1-gang push-button module.
Accessories: Protective hood for plaster, System M, art. no. MTN627591...

KNX push-button module, 1-gang

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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</thead>
<tbody>
<tr>
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<td>MTN625199</td>
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</tbody>
</table>

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.
## Push-button

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

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>active white, glossy</td>
<td>MTN619225</td>
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<tr>
<td>anthracite</td>
<td>MTN625214</td>
</tr>
<tr>
<td>aluminium</td>
<td>MTN625260</td>
</tr>
</tbody>
</table>

For System M. The rockers are attached to the 2-gang push-button module.

**Accessories:** Protective hood for plaster, System M, art. no. MTN627591...

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

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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</thead>
<tbody>
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</tr>
<tr>
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</table>

For System M. The rockers are attached to the 2-gang push-button module.

**Accessories:** Protective hood for plaster, System M, art. no. MTN627591...

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

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
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<td>MTN625714</td>
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<tr>
<td>aluminium</td>
<td>MTN625760</td>
</tr>
</tbody>
</table>

For System M. The rockers are attached to the 2-gang push-button module.

**Accessories:** Protective hood for plaster, System M, art. no. MTN627591...

### KNX push-button module, 2-gang

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MTN625299</td>
</tr>
</tbody>
</table>

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.
Push-button

Push-buttons Artec/Trancent/Antique

<table>
<thead>
<tr>
<th>Push-button, 1-gang plus</th>
<th>Push-button, 2-gang plus</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Version</strong>&lt;br&gt;white</td>
<td><strong>Version</strong>&lt;br&gt;white</td>
</tr>
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<tr>
<td><strong>Art. no.</strong> MTN628046</td>
<td><strong>Art. no.</strong> MTN628146</td>
</tr>
</tbody>
</table>

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 art. no. MTN617819.

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

For Artec, Trancent, Antique. With integrated bus coupling unit. Push-button with four operating buttons, operating display, four 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 art. no. MTN617819.

**Contents:** With protective hood for plaster. With bus connecting terminal.
Push-button

<table>
<thead>
<tr>
<th>Push-button, 3-gang plus</th>
<th>Push-button, 4-gang plus</th>
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</thead>
<tbody>
<tr>
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</table>

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 art. no. MTN.
**Contents:** With protective hood for plaster. With bus connecting terminal.

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 art. no. MTN.
**Contents:** With protective hood for plaster. With bus connecting terminal.
Push-button

Push-button, 4-gang plus with IR receiver

<table>
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<tr>
<td>stainless steel</td>
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</table>

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. The push-button is pre-programmed for operation with a Merten IR remote control Distance. Many other IR remote controls (e.g. existing TV or CD player remote controls) can be taught to the push-buttons.
The device is connected to the bus line with a bus connecting terminal.

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

**Accessories:** Labelling sheets for push-button plus art. no. MTN617819.
**Transmitter:** IR remote control Distance, art. no. MTN570222.
**Contents:** With protective hood for plaster.
With bus connecting terminal.
Push-button 2-gang plus with room temperature control unit

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<td>stainless steel</td>
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</tbody>
</table>

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 backlight 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
- Monitoring function for the actual temperature, valve protection function.

**Scene function.**

**Operation:** Menu.

**Contents:** With bus connecting terminal and supporting plate.
- Screw for protection against dismantling.
- With protective hood for plaster.
Push-button 4-gang plus with room temperature control unit

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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<td>MTN6214-4146</td>
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</tbody>
</table>

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, art. no. MTN570222.
- Contents: With bus connecting terminal and supporting plate.
- Screw for protection against dismantling.
- With protective hood for plaster.
Multi-function push-button, 2-gang with room temperature control unit

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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<td>MTN628760</td>
</tr>
<tr>
<td>stainless steel</td>
<td>MTN628746</td>
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</tbody>
</table>

For Artec, Trancent, Antique.

Convenient control unit with four operating buttons, operating display, four blue status displays which can be triggered separately, and a labelling field. The blue operating display can also be used as an orientation sign.

With room temperature control unit and display.

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

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

KNX software functions:

- Functions of the multi-function push-button:
  - Switching, toggling, dimming, blind control (relative or absolute), pulse edges trigger 1-, 2- or 8-bit telegrams (distinction between short and long operation), 8-bit linear regulator, scene retrieval, scene saving, disable functions, timed control with synchronisation, alarm functions, the cyclic reading of external temperature values, fan control.

- Functions of the room temperature control unit:
  - Type of controller: -step control, continuous PI control, switching PI control (PWM)
  - Output: Continuous in the range 0..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: Menu

Accessories:

- Protective hood for plaster, Artec, Trancent, Antique, art. no. MTN628091...

Note: Use to label conventional foils (max. thickness 0.1 mm).

For each device only one flat size 60 mounting box and one flush-mounted module are required.

Contents: Screw for protection against dismantling.

Flush-mounted module for multi-function push-button with room temperature control unit

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MTN623299</td>
</tr>
</tbody>
</table>

For the connection of multi-function push-buttons with room temperature control unit via an application interface.

For screw mounting in the size 60 installation box. Flat design. With LED and push-button for programming.

Mounting depth: 20 mm

Contents: With bus connecting terminal.
Push-button

Multi-function push-button, 4-gang with room temperature control unit

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>stainless steel</td>
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</tbody>
</table>

For Artec.

Convenient control unit 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.

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 Distance.

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, display mode, time, switching times and brightness.

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

**KNX software functions:**

Functions of the multi-function push-button:

- Switching, toggling, dimming, blind control (relative or absolute), pulse edges trigger 1-, 2- 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, alarm functions, the cyclic reading of external temperature values, fan control.

Functions of the room temperature control unit:

- Type of controller: 2-step control, continuous PI control, switching PI control (PWM)
- Output: Continuous in the range 0..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: Menu

**Transmitter:** IR remote control Distance, art. no. MTN570222.

**Note:** Use to label conventional foils (max. thickness 0.1 mm).

For each device only one flat size 60 mounting box and one flush-mounted module are required.

**Contents:** With screw for tamper-proofing, adhesive label, barrier covering the IR receiver. With protective hood for plaster.

Flush-mounted module for multi-function push-button with room temperature control unit

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>MTN623299</td>
</tr>
</tbody>
</table>

For the connection of multi-function push-buttons with room temperature control unit via an application interface.

For screw mounting in the size 60 installation box. **Flat design.** With LED and push-button for programming.

**Mounting depth:** 20 mm

**Contents:** With bus connecting terminal.
**Push-button**

**Protective hood for plaster**

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MTN628091</td>
</tr>
</tbody>
</table>

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

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

**Labelling sheets for push-button plus**

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>MTN617819</td>
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</table>

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

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

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

<table>
<thead>
<tr>
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<td>varnished stain-less steel</td>
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</table>

For Artec, Trancent, Antique.
The rocker is attached to the 1-gang push-button module.

**Accessories:** Protective hood for plaster, Artec, Trancent, Antique, art. no. MTN628091...

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

<table>
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For Artec, Trancent, Antique.
The rocker is attached to the 1-gang push-button module.

**Accessories:** Protective hood for plaster, Artec, Trancent, Antique, art. no. MTN628091...
## Push-button

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

<table>
<thead>
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<td>less steel</td>
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For Artec, Trancent, Antique.
The rocker is attached to the 1-gang push-button module.

**Accessories:** Protective hood for plaster, Artec, Trancent, Antique, art. no. MTN628091...

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

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MTN626199</td>
</tr>
</tbody>
</table>

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.

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

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>white</td>
<td>MTN626244</td>
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<tr>
<td>polar white</td>
<td>MTN626219</td>
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<tr>
<td>aluminium</td>
<td>MTN626260</td>
</tr>
<tr>
<td>varnished stain-</td>
<td>MTN626246</td>
</tr>
<tr>
<td>less steel</td>
<td></td>
</tr>
</tbody>
</table>

For Artec, Trancent, Antique.
The rockers are attached to the 2-gang push-button module.

**Accessories:** Protective hood for plaster, Artec, Trancent, Antique, art. no. MTN628091...

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

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>white</td>
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<tr>
<td>polar white</td>
<td>MTN626619</td>
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<tr>
<td>aluminium</td>
<td>MTN626660</td>
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<tr>
<td>varnished stain-</td>
<td>MTN626646</td>
</tr>
<tr>
<td>less steel</td>
<td></td>
</tr>
</tbody>
</table>

For Artec, Trancent, Antique.
The rockers are attached to the 2-gang push-button module.

**Accessories:** Protective hood for plaster, Artec, Trancent, Antique, art. no. MTN628091...
Push-button

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

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>white</td>
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<tr>
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<tr>
<td>aluminium</td>
<td>MTN626760</td>
</tr>
<tr>
<td>varnished stainless steel</td>
<td>MTN626746</td>
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</tbody>
</table>

For Artec, Trancent, Antique.
The rockers are attached to the 2-gang push-button module.

Accessories:
Protective hood for plaster, Artec, Trancent, Antique, art. no. MTN628091...

Knx push-button module, 2-gang

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MTN626299</td>
</tr>
</tbody>
</table>

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.

Push-button Trancent

Control electronics, 1- to 4-gang

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1- to 4-gang</td>
<td>MTN623190</td>
</tr>
</tbody>
</table>

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.

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.

Accessories:
Cover foil for glass sensor cover, art. no. MTN569190, MTN569290, MTN569390.

Bus coupler 2, flush-mounted

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MTN690299</td>
</tr>
</tbody>
</table>

For screw mounting in the size 60 installation box. With LED and push-button for programming. Mounting depth: 20 mm. Contents: With bus connecting terminal.
Glass sensor cover, 1-gang

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>transparent</td>
<td>MTN569100</td>
</tr>
<tr>
<td>satinated</td>
<td>MTN569101</td>
</tr>
</tbody>
</table>

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.

**Accessories:** Cover foil for glass sensor cover, art. no. MTN569190.

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

Glass sensor cover, 2-gang

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>transparent</td>
<td>MTN569200</td>
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<tr>
<td>satinated</td>
<td>MTN569201</td>
</tr>
</tbody>
</table>

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.

**Accessories:** Cover foil for glass sensor cover, art. no. MTN569290.

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

Glass sensor cover, 3-gang

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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<tbody>
<tr>
<td>transparent</td>
<td>MTN569300</td>
</tr>
<tr>
<td>satinated</td>
<td>MTN569301</td>
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</tbody>
</table>

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.

**Accessories:** Cover foil for glass sensor cover, art. no. MTN569390.

**Contents:** With cover foil, 3-gang and screws.
Cover foil for glass sensor cover

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>for 569100/01</td>
<td>MTN569190</td>
</tr>
<tr>
<td>for 569200/01</td>
<td>MTN569290</td>
</tr>
<tr>
<td>for 569300/01</td>
<td>MTN569390</td>
</tr>
</tbody>
</table>

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.

Trancent frame, 1-gang

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium</td>
<td>MTN482160</td>
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</table>

For vertical and horizontal installation.

Trancent frame, 2-gang

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium</td>
<td>MTN482260</td>
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</tbody>
</table>

For vertical and horizontal installation.

Trancent frame, 3-gang

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium</td>
<td>MTN482360</td>
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</tbody>
</table>

For vertical and horizontal installation.
Push-buttons Altira

<table>
<thead>
<tr>
<th></th>
<th>KNX push-button 1-gang</th>
<th>KNX push-button 2-gang</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Version</td>
</tr>
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</tr>
<tr>
<td>aluminium</td>
<td>ALB46150</td>
<td>aluminium</td>
</tr>
</tbody>
</table>

2 modules
In Altira design.

**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 1-gang push-button with IR receiver**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Version</td>
<td>Art. no.</td>
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</tr>
<tr>
<td>aluminium</td>
<td>ALB46152</td>
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</tbody>
</table>

2 modules
In Altira design.

**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, art. no. MTN570222.

**Contents:** With bus connecting terminal.
Push-button

Push-buttons Unica

<table>
<thead>
<tr>
<th>KNX push-button 1-gang</th>
<th>KNX push-button 2-gang</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Version</strong></td>
<td><strong>Art. no.</strong></td>
</tr>
<tr>
<td>white</td>
<td>MGU3.530.18</td>
</tr>
<tr>
<td>ivory</td>
<td>MGU3.530.25</td>
</tr>
</tbody>
</table>

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 1-gang push-button with IR receiver

<table>
<thead>
<tr>
<th><strong>Version</strong></th>
<th><strong>Art. no.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>white</td>
<td>MGU3.532.18</td>
</tr>
<tr>
<td>ivory</td>
<td>MGU3.532.25</td>
</tr>
</tbody>
</table>

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 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, art. no. MTN570222.
**Contents:** With bus connecting terminal.
Push-button

### KNX push-button 1-gang

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>white</td>
<td>MGU5.530.18</td>
</tr>
<tr>
<td>ivory</td>
<td>MGU5.530.25</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>white</td>
<td>MGU5.531.18</td>
</tr>
<tr>
<td>ivory</td>
<td>MGU5.531.25</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>white</td>
<td>MGU5.532.18</td>
</tr>
<tr>
<td>ivory</td>
<td>MGU5.532.25</td>
</tr>
</tbody>
</table>

In Unica design. KNX-push-button with 2 buttons and 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, art. no. MTN570222.

**Contents:** With fixing frame. With bus connecting terminal.
Push-button

**KNX push-button 1-gang**

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>white</td>
<td>MGU50.530.18</td>
</tr>
<tr>
<td>ivory</td>
<td>MGU50.530.25</td>
</tr>
</tbody>
</table>

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), 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 1-gang push-button with IR receiver**

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>white</td>
<td>MGU50.532.18</td>
</tr>
<tr>
<td>ivory</td>
<td>MGU50.532.25</td>
</tr>
</tbody>
</table>

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), 8-bit linear regulator, scene retrieval, scene saving, disable functions.

**Transmitter:** IR remote control Distance, art. no. MTN570222.

**Contents:** With fixing frame and claws.
With bus connecting terminal.
Push-button

Push-buttons Unica Top

<table>
<thead>
<tr>
<th>KNX push-button 1-gang</th>
<th>KNX push-button 2-gang</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Version</strong></td>
<td><strong>Art. no.</strong></td>
</tr>
<tr>
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<td>MGU3.530.30</td>
</tr>
<tr>
<td>graphite</td>
<td>MGU3.530.12</td>
</tr>
</tbody>
</table>

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 0 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 1-gang push-button with IR receiver

<table>
<thead>
<tr>
<th><strong>Version</strong></th>
<th><strong>Art. no.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium</td>
<td>MGU3.532.30</td>
</tr>
<tr>
<td>graphite</td>
<td>MGU3.532.12</td>
</tr>
</tbody>
</table>

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, art. no. MTN570222.

**Contents:** With bus connecting terminal.
**Push-button**

<table>
<thead>
<tr>
<th>KNX push-button 1-gang</th>
<th>KNX push-button 2-gang</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version</td>
<td>Art. no.</td>
</tr>
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<td>MGU5.530.30</td>
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<td>graphite</td>
<td>MGU5.530.12</td>
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<td>MGU5.531.30</td>
</tr>
<tr>
<td></td>
<td>MGU5.531.12</td>
</tr>
</tbody>
</table>

2 modules

In Unica Top design.

**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 1-gang push-button with IR receiver**

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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</thead>
<tbody>
<tr>
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<td>MGU5.532.30</td>
</tr>
<tr>
<td>graphite</td>
<td>MGU5.532.12</td>
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</tbody>
</table>

2 modules

In Unica Top design.

**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, art. no. MTN570222.

**Contents:** With fixing frame.

With bus connecting terminal.
Push-button

<table>
<thead>
<tr>
<th>KNX push-button 1-gang</th>
<th>KNX push-button 2-gang</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
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<td><strong>Version</strong></td>
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</tr>
<tr>
<td>MGU50.530.12</td>
<td>MGU50.531.12</td>
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</tbody>
</table>

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 1-gang push-button with IR receiver**

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium</td>
<td>MGU50.532.30</td>
</tr>
<tr>
<td>graphite</td>
<td>MGU50.532.12</td>
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</table>

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, art. no. MTN570222.

**Contents:** With fixing frame and claws.
With bus connecting terminal.
Binary inputs

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

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>polar white</td>
<td>MTN670802</td>
</tr>
</tbody>
</table>

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-, 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**

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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</thead>
<tbody>
<tr>
<td>polar white</td>
<td>MTN670804</td>
</tr>
</tbody>
</table>

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-, 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)
KNX
Binary inputs

Binary input REG-K/4x10

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. For installation on DIN rails EN 50022. The bus is connected using a bus connecting terminal; a data rail is not necessary. 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.


**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

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. For installation on DIN rails EN 50022. The bus is connected using a bus connecting terminal; a data rail is not necessary. 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.


**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. For installation on DIN rails EN 50022. The bus is connected using a bus connecting terminal; a data rail is not necessary. 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.


**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

**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. For installation on DIN rails EN 50022. The bus is connected using a bus connecting terminal; a data rail is not necessary. 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.


**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

**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. For installation on DIN rails EN 50022. The bus is connected using a bus connecting terminal; a data rail is not necessary. 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.


**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. For installation on DIN rails EN 50022. The bus is connected using a bus connecting terminal; a data rail is not necessary. 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.


**Input voltage:** AC 230 V, 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.
Movement detectors

KNX ARGUS 220

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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<tr>
<td>dark brazil</td>
<td>MTN632515</td>
</tr>
<tr>
<td>aluminium</td>
<td>MTN632569</td>
</tr>
</tbody>
</table>

KNX movement detector for outdoors. Potentiometers for setting functions are located underneath the cover plate. A programming magnet is necessary to program the physical address.

**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: 0° up, 24° down, 12° left/right, ±12° axial
- Ceiling mounting: 4° up, 20° down, 25° left/right, ±8.5° axial

**EC directives:** Low-voltage guideline 73/23/EEC and EMC directive 89/336/EEC

**Type of protection:** IP 55
**Accessories:** Mounting bracket, art. no. MTN665291.
Programming magnet, art. no. MTN639190.

**Contents:** With cover plate and segments to limit the area of detection, screws and plugs.
Movement detectors System M, Artec, Trancent, Antique

<table>
<thead>
<tr>
<th>Art. no.</th>
<th>KNX ARGUS 180, flush-mounted</th>
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</thead>
<tbody>
<tr>
<td>MTN631619</td>
<td>polar white, glossy</td>
</tr>
<tr>
<td>MTN631625</td>
<td>active white, glossy</td>
</tr>
<tr>
<td>MTN632614</td>
<td>anthracite</td>
</tr>
<tr>
<td>MTN632660</td>
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<td>MTN631844</td>
<td>polar white</td>
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<tr>
<td>MTN631819</td>
<td>aluminium</td>
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<tr>
<td>MTN631860</td>
<td>varnished stainless steel</td>
</tr>
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</table>

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 73/23/EEC and EMC guideline 89/336/EEC

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

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 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 73/23/EEC and EMC guideline 89/336/EEC

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

KNX ARGUS 180/2.20 m flush-mounted

<table>
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<td>anthracite</td>
<td>MTN632714</td>
</tr>
<tr>
<td>aluminium</td>
<td>MTN632760</td>
</tr>
</tbody>
</table>

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 73/23/EEC and EMC guideline 89/336/EEC
Contents: With bus connecting terminal and supporting plate. With cover segments to limit the area of detection.
## Movement detectors Altira

**KNX Movement detector 180**

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
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<td>ALB45153</td>
</tr>
<tr>
<td>aluminium</td>
<td>ALB46153</td>
</tr>
</tbody>
</table>

- **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**

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
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<td>MGU3.533.18</td>
</tr>
<tr>
<td>ivory</td>
<td>MGU3.533.25</td>
</tr>
</tbody>
</table>

- **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

<table>
<thead>
<tr>
<th>Version</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>ivory</td>
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</tr>
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</table>

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

<table>
<thead>
<tr>
<th>Version</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>ivory</td>
<td>MGU50.533.25</td>
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</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Version</th>
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<tbody>
<tr>
<td>aluminium</td>
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</tr>
<tr>
<td>graphite</td>
<td>MGU3.533.12</td>
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</tbody>
</table>

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:** Adjustible 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**

<table>
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<tr>
<th>Version</th>
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<tbody>
<tr>
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<tr>
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<td>MGU5.533.12</td>
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</table>

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:** Adjustible 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**

<table>
<thead>
<tr>
<th>Version</th>
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<tbody>
<tr>
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<td>graphite</td>
<td>MGU50.533.12</td>
</tr>
</tbody>
</table>

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 8 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

**KNX presence detector**

**KNX ARGUS Presence Basic**

<table>
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<tbody>
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<td>polar white</td>
<td>MTN630719</td>
</tr>
<tr>
<td>aluminium</td>
<td>MTN630760</td>
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</tbody>
</table>

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 73/23/EEC and EMC guideline 89/336/EEC
**Accessories:** Surface-mounted housing for Argus Presence, art. no. MTN590619.
**Contents:** With fixing frame and claws. With bus connecting terminal.
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 73/23/EEC and EMC guideline 89/336/EEC

**Accessories**: Surface-mounted housing for Argus Presence, art. no. MTN550619.

**Contents**: With bus connecting terminal and supporting plate.
KNX ARGUS Presence with light control and IR receiver

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<th>Version</th>
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<tbody>
<tr>
<td>polar white</td>
<td>MTN630919</td>
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<tr>
<td>aluminium</td>
<td>MTN630960</td>
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</table>

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 73/23/EEC and EMC guideline 89/336/EEC
**Accessories:** Surface-mounted housing for Argus Presence, art. no. MTN550619.
**Transmitter:** IR remote control Distance, art. no. MTN70222.
**Contents:** With bus connecting terminal and supporting plate.

Surface-mounted housing for ARGUS Presence

<table>
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<th>Version</th>
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<td>polar white</td>
<td>MTN550619</td>
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</table>

The surface-mounted housing for ARGUS Presence devices also allows them to be surface mounted.
Movement detector

**KNX ARGUS Presence 180/2.20 m flush-mounted**

<table>
<thead>
<tr>
<th>Version</th>
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<tbody>
<tr>
<td>polar white, glossy</td>
<td>MTN630419</td>
</tr>
<tr>
<td>active white, glossy</td>
<td>MTN630425</td>
</tr>
<tr>
<td>anthracite</td>
<td>MTN630614</td>
</tr>
<tr>
<td>aluminium</td>
<td>MTN630660</td>
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</tbody>
</table>

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 73/23/EEC and EMC guideline 89/336/EEC

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

With cover segments to limit the area of detection.
Other sensors

**Analogue input REG-K 4-gang**

<table>
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<th>Version</th>
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<td>MTN682191</td>
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</table>

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 REG4-gang, 8 analogue inputs are available, to which the connection is made using the sub-bus.

For installation on DIN rails EN 50022.

The bus is connected using a bus connecting terminal; a data rail is not necessary. Evaluation and limit value processing is performed in the analogue input. With continuity checking of the 4 ... 20 mA inputs.

- **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

**Accessories:** Analogue input module REG4-gang, art. no. MTN682192.

**Power supply REG, AC 24 V / 1 A, art. no. MTN663529.**

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

**Analogue input module REG4-gang**

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<th>Version</th>
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<td>MTN682192</td>
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</table>

Extension module to extend weather station REG-K/-gang and analogue input REG-K/-gang 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.

For installation on DIN rails EN 50022.

Evaluation and limit value processing is performed in the analogue input or weather station. With continuity checking of the 4 ... 20 mA inputs.

- **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

**Accessories:** Power supply REG, AC 24 V / 1 A, art. no. MTN663529.

**Contents:** With sub-bus jumper.
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, art. no. MTN663992.
KNX brightness and temperature sensor

<table>
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<tr>
<th>Version</th>
<th>Art. no.</th>
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<td>MTN663991</td>
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</table>

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
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.

For installation on DIN rails EN 50022.
The bus is connected using a bus connecting terminal; a data rail is not necessary.

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

**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

**Accessories:**
- Analogue input module REG/-gang, art. no. MTN682192.
- Weather combi-sensor/DCF-77, art. no. MTN663692.
- Power supply REG, AC 24 V / 1 A, art. no. MTN663529.

**Contents:** With bus connecting terminal and cable cover.
Other sensors

Weather combi-sensor DCF-77

The weather combi-sensor includes a wind sensor, precipitation sensor, twilight sensor and three brightness sensors (East, South, West). With integral DCF-77 receiver, antenna rotatable through 45° and integral heating. Suitable for external installation on a wall or on a mast.
The sensor is connected to a weather station REG-K/4-gang.
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 (xH)

Time switch

Year time switch REG-K/4/324

Quartz-controlled four-channel year time switch. The device can be programmed manually on the device itself or on the PC using the software. With bus coupler. For installation on DIN rails EN 50022.
The bus is connected using a bus connecting terminal; a data rail is not necessary. After programming on the PC, all switching times are exported to a memory chip available as an accessory, and transmitted from this into one or more time switches.

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

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, art. no. MTN615034.
Memory chip for year time switches, art. no. MTN668092.
Other sensors

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

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<tr>
<th>Version</th>
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<td>MTN677029</td>
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</table>

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. With bus coupler. For installation on DIN rails EN 50022.

The bus is connected using a bus connecting terminal; a data rail is not necessary. 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

**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
**Accessories:** DCF77 antenna, art. no. MTN68091.
**Obelisk software,** art. no. MTN615034.
**Memory chip for year time switches,** art. no. MTN68092.

KNX timer REG-K

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</table>

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

**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 73/23/EEC and EMC directive 89/336/EEC
**Device width:** 2 modules = approx. 36 mm
**Accessories:** DCF77 antenna, art. no. MTN68091.
**DCF77 antenna**

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</table>

Antenna for receiving the time by radio signal. The antenna should be connected to a year time switch REG-K/4/324 DCF-T7.

*Type of protection:* IP 65

*Contents:* With mounting bracket.

**OBELISK software**

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<td>MTN615034</td>
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</table>

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

*Contents:* With adapter and a memory chip.

**Memory chip for year time switches**

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<td>MTN668092</td>
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</table>

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.
## Switch actuators

### Switch actuator, flush-mounted/230/16

<table>
<thead>
<tr>
<th>Version</th>
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<td>polar white</td>
<td>MTN629993</td>
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</table>

For switching a load via a make contact. With integrated bus coupler and screw terminals. The device is connected to the bus via 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 230 V, 50-60 Hz

**Nominal current:** 18 A, ohmic load

**Nominal output**

- Incandescent lamps: AC 230 V, max. 2700 W
- Halogen lamps: AC 230 V, max. 1700 W
- Fluorescent lamps: AC 230 V, max. 1000 VA with parallel compensation

**Capacitive load:** AC 230 V, max. 105 µF

**Contents:** With bus connecting terminal.

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

<table>
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<tr>
<th>Version</th>
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<td>MTN649202</td>
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</table>

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. With integrated bus coupler. For installation on DIN rails EN 50022. Bus connection is via bus terminals, a data rail is not necessary. Channel status display via LEDs. A green LED indicates readiness for operation.


**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 actuators

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

<table>
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<tr>
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<td>MTN647393</td>
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</table>

For independent switching of two loads via make contacts. With integrated bus coupler and screw terminals. For installation on DIN rails EN 50022. The 230 V switch output can be operated with a manual switch.

The bus is connected using a bus connecting terminal; a data rail is not necessary. A green LED indicates readiness for operation after the application has been loaded.

**KNX software functions:** Operation as break or make contact, delay functions for each channel, staircase lighting function with/without manual OFF function, cut-out warning for staircase lighting function, blocking and additional logic operation or priority control, scenes, status feedback function per channel, central function, comprehensive parameterisation for bus voltage failure and recovery, parameterisable download behaviour.

**Nominal voltage:** AC 230 V, 50-60 Hz

**For each switching contact:**
- **Nominal current:** 16 A, \( \cos \phi = 0.6 \)
- **Incandescent lamps:** AC 230 V, max. 3600 W
- **Halogen lamps:** AC 230 V, max. 2500 W
- **Fluorescent lamps:** AC 230 V, max. 2500 VA
- **Capacitive load:** AC 230 V, 16 A, max. 200 μF
- **Device width:** 2.5 modules = approx. 45 mm
- **Contents:** With bus connecting terminal and cable cover.

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

<table>
<thead>
<tr>
<th>Version</th>
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<td>MTN647395</td>
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</table>

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.

For installation on DIN rails EN 50022. The bus is connected using a bus connecting terminal; a data rail is not necessary. A green LED indicates that the device is ready for operation once the application has been loaded. The load is connected with screw terminals.


Current detection function: Behaviour when value exceeds falls short of the threshold value. Energy, operating and switch on counter with limit value monitoring. Flash function.

**Nominal voltage:** AC 230 V, 50 - 60 Hz

**Per switching contact:**
- **Nominal current:** 16 A, \( \cos \phi = 0.6 \)
- **Incandescent lamps:** AC 230 V, max. 3600 W
- **Halogen lamps:** AC 230 V, max. 2500 W
- **Fluorescent lamps:** AC 230 V, max. 2500 VA, with parallel compensation
- **Capacitive load:** AC 230 V, 16 A, max. 200 μF
- **Motor load:** AC 230 V, max. 1000 W
- **Current detection load current:**
- **Detection range:** 0.1 A to 16 A (sine effective value or DC)
- **Sensing accuracy:** +/- 8% of the current value at hand (sine) and +/- 100 mA
- **Frequency:** 50/60 Hz
- **Description:** 100 mA
- **Device width:** 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**

<table>
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<tr>
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<td>MTN649204</td>
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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. With integrated bus coupler. For installation on DIN rails EN 50022. Bus connection is via bus terminals, a data rail is not necessary. Channel status display via LEDs. A green LED indicates readiness for operation.


**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**

<table>
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<tr>
<th>Version</th>
<th>Art. no.</th>
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<td>MTN647593</td>
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</table>

For independent switching of four loads via make contacts. With integrated bus coupler 2 and screw terminals. For installation on DIN rails EN 50022. The 230 V switch output can be operated with a manual switch. The bus is connected using a bus connecting terminal; a data rail is not necessary. A green LED indicates readiness for operation after the application has been loaded.

**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

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<th>Version</th>
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<td>MTN647595</td>
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</table>

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.

For installation on DIN rails EN 50022. The bus is connected using a bus connecting terminal; a data rail is not necessary. A green LED indicates that the device is ready for operation once the application has been loaded. The load is connected with screw terminals.

**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
- 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, 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, 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.

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Switch actuator REG-K/8x230/6

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For independent switching of eight loads via make contacts. With integrated bus coupler and plug-in screw terminals. For installation on DIN rails EN 50022.

The bus is connected using a bus connecting terminal; a data rail is not necessary. A green LED indicates readiness for operation after the application has been loaded.

**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, cosφ = 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**

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<th>Version</th>
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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. With integrated bus coupler. For installation on DIN rails EN 50022.

Bus connection is via bus terminals, a data rail is not necessary. Channel status display via LEDs. A green LED indicates readiness for operation.

**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.
- Scenarios.
- 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.

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

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</table>

For independent switching of 8 loads via make contacts. All 230 V switch outputs can be operated with manual switches. With integrated bus coupler. For installation on DIN rails EN 50022.

The device is connected to the mains via screw terminals; every second L connection is bridged internally. The bus is connected using a bus connecting terminal; a data rail is not necessary. A green LED indicates readiness for operation after the application has been loaded.

**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, 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:** 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**

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. For installation on DIN rails EN 50022. The bus is connected using a bus connecting terminal; a data rail is not necessary. A green LED indicates that the device is ready for operation once the application has been loaded. The load is connected with screw terminals.


**Nominal voltage:** AC 230 V, 50 - 60 Hz

**Per switching contact:**
- **Nominal current:** 16 A, cos ϕ = 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
- **Device width:** 8 modules = approx. 144 mm
- **Contents:** With bus connecting terminal and cable cover.

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

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. With integrated bus coupler. For installation on DIN rails EN 50022. Bus connection is via bus terminals, a data rail is not necessary. Channel status display via LEDs. A green LED indicates readiness for operation.


**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 ϕ = 1; 10 A, cos ϕ = 0.6
- **Incandescent lamps:** AC 230 V, max. 2000 W
- **Halogen lamps:** AC 230 V, max. 1700 W
- **Fluorescent lamps:** AC 230 V, max. 1800 W, uncompensated
- **AC 230 V, max. 1000 W parallel-compensated
- **Capacitive load:** AC 230 V, max. 105 µF
- **Device width:** 6 modules = approx. 108 mm
- **Contents:** With bus connecting terminal and cable cover.
Switch actuators

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

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<th>Version</th>
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</table>

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. For installation on DIN rails EN50022. The bus is connected using a bus connecting terminal; a data rail is not necessary. A green LED indicates readiness for operation after the application has been loaded.

**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, 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, with parallel compensation
- **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 actuator REG-K/12x230/16 with current detection and manual mode**

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<th>Version</th>
<th>Art. no.</th>
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</table>

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.

For installation on DIN rails EN 50022. The bus is connected using a bus connecting terminal; a data rail is not necessary. A green LED indicates that the device is ready for operation once the application has been loaded. The load is connected with screw terminals.


**Nominal voltage:** AC 230 V, 50 - 60 Hz

**Per 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, 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:** 12 modules = approx. 216 mm
  - **Contents:** With bus connecting terminal and cable cover.
### Blind/switch actuators

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

<table>
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<tr>
<th>Version</th>
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<td>MTN649908</td>
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</table>

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. With integrated bus coupling unit. For installation on DIN rails EN 50022.

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.

**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.

**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 blind output:** Nominal current: 10 A, cosϕ = 0.6
- **Motor load:** AC 230 V, max. 1000 W
- **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
- **Fluorescent lamps:** AC 230 V, max. 1000 W parallel-compensated
- **Capacitive load:** AC 230 V, max. 105 µF
- **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. MTN653692. If you require these functions then use the blind actuators art. no. MTN6498...  

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

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

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<td>MTN649912</td>
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</table>

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. With integrated bus coupler. For installation on DIN rails EN 50022.

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.

**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.

**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 blind output:** Nominal current: 10 A, cosϕ = 0.6
- **Motor load:** AC 230 V, max. 1000 W
- **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
- **Fluorescent lamps:** AC 230 V, max. 1000 W parallel-compensated
- **Capacitive load:** AC 230 V, max. 105 µF
- **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. MTN653692. If you require these functions then use the blind actuators art. no. MTN6498...  

**Contents:** With bus connecting terminal and cable cover.
**Blind actuators**

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

<table>
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<tr>
<th>Version</th>
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<td>MTN649802</td>
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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.

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.

**KNX software functions:**
- Differentiated disable functions and weather alarms. 8-bit positioning for height and slat.

**For each blind output:**
- Nominal voltage: AC 230 V, 50-60 Hz
- Nominal current: 10 A, $\cos \phi = 0.6$
- Motor load: AC 230 V, max. 1000 W
- Device width: 4 modules = approx. 72 mm
- Contents: With bus connecting terminal and cable cover.

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

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<th>Version</th>
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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.

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.

**KNX software functions:**
- Differentiated disable functions and weather alarms. 8-bit positioning for height and slat.

**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.

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**Blind actuator REG-K/4x/6**

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For independent control of 4 blind/roller shutter drives. With integrated bus coupler and plug-in screw terminals. For installation onto DIN rails EN 50022.

The bus is connected using a bus connecting terminal; a data rail is not necessary. A green LED indicates readiness for operation after the application has been loaded.

**KNX software functions:**

**For each blind output:**
- Nominal voltage: AC 230 V, 50-60 Hz
- Nominal current: 6 A, $\cos \phi = 0.6$
- Motor load: AC 230 V, max. 1000 W
- Device width: 4 modules = approx. 72 mm
- Contents: With bus connecting terminal and cable cover.
**KNX**

**Blind/switch actuators**

**Roller shutter actuator REG-K/4x/10 with manual mode**

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<th>Version</th>
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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. With integrated bus coupler. For installation onto DIN rails EN 50022. Bus connection is via bus terminals, a data rail is not necessary. Channel status display via LEDs. A green LED indicates readiness for operation.


For each roller shutter output:
- **Nominal voltage:** AC 230 V, 50-60 Hz
- **Nominal current:** 10 A, cos ϕ = 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.

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

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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. With integrated bus coupling unit. For installation on DIN rails EN 50022. 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.


For each blind output:
- **Nominal voltage:** AC 230 V, 50-60 Hz
- **Nominal current:** 10 A, cos ϕ = 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.

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

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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. With integrated bus coupler. For installation on DIN rails EN 50022. 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.


For each blind output:
- **Nominal voltage:** AC 230 V, 50 - 60 Hz
- **Nominal current:** 10 A, cos ϕ = 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.
**Dimming actuators**

**Dimming actuator REG-K/2x230/300 W**

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AC 230 V, 50 Hz  
For switching and dimming incandescent lamps and dimmable, wound transformers (ohmic / inductive load).  
*(Phase control)*  
With integral bus coupler, plug-in screw terminals, short-circuit and overload protection and soft start function to protect the lamps. For installation onto DIN rails EN 50022.  
Bus connection is via bus terminals; a data rail is not necessary. 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**

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AC 230 V, 50-60 Hz  
For switching and dimming incandescent lamps, HV halogen lamps and LV halogen lamps using dimmable wound transformers or electronic transformers.  
*(Phase control and phase alignment)*  
With integral bus coupler, screw terminals, short-circuit, open-circuit and excess temperature protection with soft start function. 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.  
**KNX software functions:** Dimming operation via EIB, 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, behaviour on bus voltage recovery.  
**Nominal voltage:** AC 220 - 230 V, 50/60 Hz  
**Nominal power:** max. 1000 W/VA  
**20 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:** With mechanical push-buttons (make contact).  
With TELE insert extension, art. No. MTN57998.  
**Contents:** With bus connecting terminal and cable cover.
**Dimming actuators/control units**

**Universal dimming actuator REG-K/230/500 W**

### Version
- **Art. no.** 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. 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.

**KNX software functions:** Dimming operation via EIB, 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, behaviour on bus voltage recovery.

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

**Nominal power/channel:**
- max. 500 W/VA
- 20 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:** With mechanical push-buttons (make contact).

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

---

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

### Version
- **Art. no.** 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. 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.

**KNX software functions:** Dimming operation via EIB, 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, behaviour on bus voltage recovery.

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

**Nominal power/channel:**
- max. 300 W/VA
- 20 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:** 4 modules = approx. 72 mm

**Extension unit operation:** With mechanical push-buttons (make contact).

**Contents:** With bus connecting terminal and cable cover.
Dimming actuators/control units

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

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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<tbody>
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<td>MTN649325</td>
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</tbody>
</table>

- **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.
- **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:** max. 25 W/VA
- **Channels:** 1 x 500 W/VA and 2 x 250 W/VA
- **Minimum load/channel:** 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

<table>
<thead>
<tr>
<th>Version</th>
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</tbody>
</table>

- **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. 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.
- **KNX software functions:** Dimming operation via EIB, 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, behaviour on bus voltage recovery.
- **Nominal voltage:** AC 220 - 230 V, 50/60 Hz
- **Nominal power/channel:** max. 150 W/VA
- **20 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:** With mechanical push-buttons (make contact).
  - With TELE insert extension, art. No. MTN67998.
- **Contents:** With bus connecting terminal and cable cover.
Dimming actuators/control units

Control units 1-10 V

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

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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<tbody>
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<td>MTN647091</td>
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</table>

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). The 230 V switch output can be operated with a manual switch. For installation onto DIN rails EN 50022. 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

**Switching voltage:** AC 230 V

**Switching current:** 16 A, cosφ = 0.6

**Switching capacity:** AC 230 V, 3600 W, cosφ = 1

**Capacitive load:** AC 230 V, 3600 W, 200 µF

**Halogen lamps:** AC 230 V, 2500 W

**Fluorescent lamps:** AC 230 V, max. 5000 W, uncompensated

**AC 230 V, max. 2500 VA, with parallel compensation**

**0-10 V interface:** for dimming the electronic ballasts/transformers

**Voltage range:** DC 0-10 V

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

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

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

<table>
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<tr>
<th>Version</th>
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<td>MTN646991</td>
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</table>

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 onto DIN rails EN 50022. 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

**Switching voltage:** AC 230 V

**Switching current:** 16 A, cosφ = 0.6

**Switching capacity:** AC 230 V, 3600 W, cosφ = 1

**Capacitive load:** AC 230 V, 3600 W, 200 µF

**Halogen lamps:** AC 230 V, 2500 W

**Fluorescent lamps:** AC 230 V, max. 5000 W, uncompensated

**AC 230 V, max. 2500 VA, with parallel compensation**

**0-10 V interface:** for dimming the electronic ballasts/transformers

**Voltage range:** DC 0-10 V

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

**Contents:** With bus connecting terminal and cable cover.
**Dimming actuators/control units**

### Other actuators

**Analogue actuator REG-K/4-gang**

<table>
<thead>
<tr>
<th>Version</th>
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<td>MTN682291</td>
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</table>

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.

For installation on DIN rails EN 50022. The bus is connected using a bus connecting terminal; a data rail is not necessary. With continuity checking of the current outputs.

**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

**Accessories:** Analogue actuator module REG/4-gang, art. no. MTN682292.

**Power supply REG, AC 24 V / 1 A, art. no. MTN663529.**

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

### Analogue actuator module REG/4-gang

<table>
<thead>
<tr>
<th>Version</th>
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<td>MTN682292</td>
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</tbody>
</table>

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 EN 50022.

**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

**Accessories:** Power supply REG, AC 24 V / 1 A, art. no. MTN663529.

**Contents:** With sub-bus jumper.
The "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:
- 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 "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 115/230 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:** 198x137x52 mm (HxWxD)

**In KNX, to be completed with:** Inner frame set for 7” touch panel, art. no. MTN6270-01...

**Frame for 7” touch panel, art. no.** MTN6270-00..., MTN6270-36..., MTN6270-37...

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**Inner frame set for 7” touch panel**

<table>
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<tbody>
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<td>MTN6270-0119</td>
</tr>
<tr>
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<td>MTN6270-0122</td>
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</table>

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.

**Dimensions:** 208x145x7.3 mm (HxWxD)

**In KNX, to be completed with:** 7” touch panel, art. no. MEG6260-0007

**Frame for 7” touch panel, art. no.** MTN6270-00..., MTN6270-36..., MTN6270-37...

**Replacement part:** USB cover for 7” touch panel, art. no. MTN6270-02...
Control and display devices

Glass frame for 7” touch panel

<table>
<thead>
<tr>
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<th>Art. no.</th>
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<tbody>
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<td>MTN6270-3619</td>
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</tbody>
</table>

Decorative glass frame for 7” touch panel.

In KNX, to be completed with: 7” touch panel, art. no. MEG6260-0007.
Inner frame set for 7” touch panel, art. no. MTN6270-01...

Metal frame for 7” touch panel

<table>
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<tr>
<td>Steel</td>
<td>MTN6270-3714</td>
</tr>
</tbody>
</table>

Decorative solid metal frame for 7” touch panel.

In KNX, to be completed with: 7” touch panel, art. no. MEG6260-0007.
Inner frame set for 7” touch panel, art. no. MTN6270-01...

Aluminium frame for 7” touch panel

<table>
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<th>Art. no.</th>
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<tbody>
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<td>MTN6270-3719</td>
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<tr>
<td>Black</td>
<td>MTN6270-3722</td>
</tr>
</tbody>
</table>

Decorative aluminium frame for 7” touch panel.

In KNX, to be completed with: 7” touch panel, art. no. MEG6260-0007.
Inner frame set for 7” touch panel, art. no. MTN6270-01...

Frame for 7” touch panel

<table>
<thead>
<tr>
<th>Version</th>
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</tr>
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<td>MTN6270-0022</td>
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</tbody>
</table>

Decorative frame for 7” touch panel.

In KNX, to be completed with: 7” touch panel, art. no. MEG6260-0007.
Inner frame set for 7” touch panel, art. no. MTN6270-01...
## Control and display devices

### Flush-mounted mounting box for IP touch panel 7”

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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<tbody>
<tr>
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<td>MTN6270-0001</td>
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</tbody>
</table>

For flush-mounted installation of the touch panel 7”.

**Dimensions**

- **Outer dimensions:** 193x138x66 mm (HxWxD)
- **In KNX, to be completed with:** 7” touch panel, art. no. MEG6260-0007.

### Cavity wall mounting box for touch panel 7”

<table>
<thead>
<tr>
<th>Version</th>
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<tr>
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<td>MTN6270-0002</td>
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</tbody>
</table>

For installing the 7” touch panel into a cavity wall.

**Dimensions**

- **Outer dimensions:** 201x142x56 mm (HxWxD)
- **Opening:** 188x133x56 mm (HxWxD)
- **In KNX, to be completed with:** 7” touch panel, art. no. MEG6260-0007.

### USB cover for 7” touch panel

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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<tbody>
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<td>MTN6270-0219</td>
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<tr>
<td>black</td>
<td>MTN6270-0222</td>
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</tbody>
</table>

For inserting into the intermediate frame. The USB cover is required as a spare part when damaged or lost.
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  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  
- **Mains voltage:** DC 24 V  
- **Power consumption:** < 20 W  
- **RAM:** 128 MB  
- **Data buffering:** via battery  
- **Ambient operating temperature:** 5°C bis 40°C  
- **Type of protection:** IP 20  
- **Frame dimensions:** 224.7x277.5x12 mm (HxWxD)  
- **Opening:** 157.4x210.2 mm (HxW)  
- **Accessories:** KNX EIB module for IP touch panel art. no. MTN683093.  
- **Design frame for IP touch panel 10” art. no. MTN489960.**  
- **Flush-mounted mounting box for IP touch panel 10” art. no. MTN683091.**  
- **Cavity wall mounting box for IP touch panel 10” art. no. MTN683092.**

**Note:** The configuration software is available on the Internet.

**Contents:** With Design M-Plan frames, aluminium.

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**KNX module for IP touch panel**

Plug-in module for connecting the IP touch panel to the KNX.

**Real glass frame for IP touch panel 10”**

For M-Plan.

- **Decorative frame for the IP touch panel 10”.**
- **Dimensions:** 228.6x281.4x13.5 mm (HxWxD)
Control and display devices

<table>
<thead>
<tr>
<th></th>
<th>Flush-mounted mounting box for IP touch panel 10”</th>
<th>Cavity wall mounting box for IP touch panel 10”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version</td>
<td>Art. no.</td>
<td>Version</td>
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<td></td>
<td>MTN683091</td>
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</table>

For flush-mounted installation of the IP touch panel 10”.
**Dimensions:** 208x238x68 mm (HxWxD)

For installing the IP touch panel 10” into a cavity wall.
**Dimensions:** 205x235x72 mm (HxWxD)
Room temperature control units

Room temperature control unit System M
Push-button 2-gang plus with room temperature control unit

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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<tr>
<td>aluminium</td>
<td>MTN6212-0460</td>
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</tbody>
</table>

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 backlight 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

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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<tbody>
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</tr>
<tr>
<td>aluminium</td>
<td>MTN6214-0460</td>
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</tbody>
</table>

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), 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, art. no. MTN570222.
Contents: With bus connecting terminal and supporting plate.
Screw for protection against dismantling.
With protective hood for plaster.
Room temperature control units

Multi-function push-button, 2-gang with room temperature control unit

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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</thead>
<tbody>
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</tr>
<tr>
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</tr>
</tbody>
</table>

Application module 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.
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, display mode, time, switching times and brightness.
The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.

KNX software functions:
Functions of the multi-function push-button:
Switching, toggling, dimming, blind control (relative or absolute), pulse edges trigger 1-, 2- 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, alarm functions, the cyclic reading of external temperature values, fan control.

Functions of the room temperature control unit:
Type of controller: 2-step control, continuous PI control, switching PI control (PWM)
Output: Continuous in the range 0-100% 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: Menu

Accessories:
Protective hood for plaster, System M, art. no. MTN627591...
Note: Use to label conventional foils (max. thickness 0.1 mm).
For each device only one flat size 60 mounting box and one flush-mounted module are required.
Contents: Screw for protection against dismantling.

Flush-mounted module for multi-function push-button with room temperature control unit

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MTN623299</td>
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</table>

For the connection of multi-function push-buttons with room temperature control unit via an application interface.
For screw mounting in the size 60 installation box. Flat design. With LED and push-button for programming.
Mounting depth: 20 mm
Contents: With bus connecting terminal.
Multi-function push-button, 4-gang with room temperature control unit and IR receiver

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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</table>

Application module 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 Distance.
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, display mode, time, switching times and brightness.
The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.

**KNX software functions:**

**Functions of the multi-function push-button:**
Switching, toggling, dimming, blind control (relative or absolute), pulse edges trigger 1-, 2- 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, alarm functions, the cyclic reading of external temperature values, fan control.

**Functions of the room temperature control unit:**
Type of controller: 2-step control, continuous PI control, switching PI control (PWM)
Output: Continuous in the range 0..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: Menu
Transmitter: IR remote control Distance, art. no. MTN570222.

**Remark:** Use to label conventional foils (max. thickness 0.1 mm).
For each device only one flat size 60 mounting box and one flush-mounted module are required.
Contents: With screw for tamper-proofing, adhesive label, barrier covering the IR receiver.

Flush-mounted module for multi-function push-button with room temperature control unit

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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</thead>
<tbody>
<tr>
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<td>MTN623299</td>
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</table>

For the connection of multi-function push-buttons with room temperature control unit via an application interface.
For screw mounting in the size 60 installation box. Flat design. With LED and push-button for programming.
Mounting depth: 20 mm
Contents: With bus connecting terminal.
Room temperature control units

Room temperature control unit with display

<table>
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<tr>
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</tbody>
</table>

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.

- Contents: With bus connecting terminal and supporting plate.

- Screw for protection against dismantling.

- With protective hood for plaster.
KNX Room temperature control unit, flush-mounted/PI with 4-gang push-button interface

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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<tbody>
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<tr>
<td>aluminium</td>
<td>MTN616860</td>
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</tbody>
</table>

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.

KNX software functions:
Functions of the room temperature control unit:
Controller type: -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 KNX room temperature control unit, UP/PI art. no. MTN616790.

Remote sensor for room temperature control unit UP/PI

<table>
<thead>
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<th>Version</th>
<th>Art. no.</th>
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<tbody>
<tr>
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</table>

Temperature sensor the floor/room temperature measurement

Cable length: 4 m (2 x 0.75 mm²)
Room temperature control units

<table>
<thead>
<tr>
<th>Room temperature control unit for properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version</td>
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<tr>
<td>white</td>
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<tr>
<td>polar white</td>
</tr>
<tr>
<td>anthracite</td>
</tr>
<tr>
<td>aluminium</td>
</tr>
</tbody>
</table>

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 units

Room temperature control unit Artec, Trancent, Antique

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

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
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<tr>
<td>stainless steel</td>
<td>MTN6212-4146</td>
</tr>
</tbody>
</table>

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 backlight 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

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>white, glossy</td>
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<td>MTN6214-4060</td>
</tr>
<tr>
<td>stainless steel</td>
<td>MTN6214-4146</td>
</tr>
</tbody>
</table>

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, art. no. MTN570222.

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

Screw for protection against dismantling.

With protective hood for plaster.
Room temperature control units

Multi-function push-button, 2-gang with room temperature control unit

<table>
<thead>
<tr>
<th>Version</th>
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<tbody>
<tr>
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</table>

For Artec, Trancent, Antique.

Convenient control unit with four operating buttons, operating display, four blue status displays which can be triggered separately, and a labelling field. The blue operating display can also be used as an orientation sign.

With room temperature control unit and display.

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

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

KNX software functions:

Functions of the multi-function push-button:

Switching, toggling, dimming, blind control (relative or absolute), pulse edges trigger 1-, 2- 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, alarm functions, the cyclic reading of external temperature values, fan control.

Functions of the room temperature control unit:

Type of controller: Step control, continuous PI control, switching PI control (PWM)

Output: Continuous in the range 0..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: Menu

Accessories:

Protective hood for plaster, Artec, Trancent, Antique, art. no. MTN628091...

Note: Use to label conventional foils (max. thickness 0.1 mm).

For each device only one flat size 60 mounting box and one flush-mounted module are required.

Contents: Screw for protection against dismantling.

With protective hood for plaster.

Flush-mounted module for multi-function push-button with room temperature control unit

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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<tr>
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</table>

For the connection of multi-function push-buttons with room temperature control unit via an application interface.

For screw mounting in the size 60 installation box. Flat design. With LED and push-button for programming.

Mounting depth: 20 mm

Contents: With bus connecting terminal.
Room temperature control units

Multi-function push-button, 4-gang with room temperature control unit

<table>
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<tr>
<th>Version</th>
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<td>stainless steel</td>
<td>MTN628846</td>
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</table>

For Artec.
Convenient control unit 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.
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 Distance.
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, display mode, time, switching times and brightness.
The push-buttons are freely parameterisable as push-button pairs (dual-surface) or as single push-buttons.

**KNX software functions:**
- Functions of the multi-function push-button:
  - Switching, toggling, dimming, blind control (relative or absolute), pulse edges trigger 1-, 2- 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, alarm functions, cyclic reading of external temperature values, fan control.
- Functions of the room temperature control unit:
  - Type of controller: 2-step control, continuous PI control, switching PI control (PWM)
  - Output: Continuous in the range 0...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: Menu

**Transmitter:** IR remote control Distance, art. no. MTN675222.
**Note:** Use to label conventional foils (max. thickness 0.1 mm).
For each device only one flat size 60 mounting box and one flush-mounted module are required.
**Contents:** With screw for tamper-proofing, adhesive label, barrier covering the IR receiver. With protective hood for plaster.

Flush-mounted module for multi-function push-button with room temperature control unit

<table>
<thead>
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<th>Art. no.</th>
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<tbody>
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</table>

For the connection of multi-function push-buttons with room temperature control unit via an application interface.
For screw mounting in the size 60 installation box. Flat design. With LED and push-button for programming.
**Mounting depth:** 20 mm
**Contents:** With bus connecting terminal.
Room temperature control units

**Room temperature control unit with display**

<table>
<thead>
<tr>
<th>Version</th>
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<tr>
<td>stainless steel</td>
<td>MTN6241-4146</td>
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</tbody>
</table>

For Artec, Trancent, Antique.

KNX Room temperature control unit with display, labelling field, operation and status LED. The buttons allow to shift set values and change operation modes.

With 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**

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>white</td>
<td>MTN616944</td>
</tr>
<tr>
<td>polar white</td>
<td>MTN616919</td>
</tr>
<tr>
<td>aluminium</td>
<td>MTN616960</td>
</tr>
<tr>
<td>varnished stainless steel</td>
<td>MTN616946</td>
</tr>
</tbody>
</table>

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.

**KNX software functions:**

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

- Controller type: 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 KNX room temperature control unit, UP/PI art. no. MTN616790.

**Remote sensor for room temperature control unit UP/PI**

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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<tbody>
<tr>
<td>black</td>
<td>MTN616790</td>
</tr>
</tbody>
</table>

Temperature sensor the floor/room temperature measurement

**Cable length:** 4 m (2 x 0.75 mm²)
Room temperature control units

Room temperature control unit Altira

KNX Room temperature control unit with display

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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<tbody>
<tr>
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<td>ALB45154</td>
</tr>
<tr>
<td>aluminium</td>
<td>ALB46154</td>
</tr>
</tbody>
</table>

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 backlight 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

Room temperature control unit Unica

KNX Room temperature control unit with display

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>white</td>
<td>MGU3.534.18</td>
</tr>
<tr>
<td>ivory</td>
<td>MGU3.534.25</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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<tbody>
<tr>
<td>white</td>
<td>MGU5.534.18</td>
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<tr>
<td>ivory</td>
<td>MGU5.534.25</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>white</td>
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</tr>
<tr>
<td>ivory</td>
<td>MGU50.534.25</td>
</tr>
</tbody>
</table>

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 00% 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
- 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 units

Room temperature control unit Unica Top

KNX Room temperature control unit with display

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium</td>
<td>MGU3.534.30</td>
</tr>
<tr>
<td>graphite</td>
<td>MGU3.534.12</td>
</tr>
</tbody>
</table>

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 backlight 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**

<table>
<thead>
<tr>
<th>Version</th>
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</thead>
<tbody>
<tr>
<td>aluminium</td>
<td>MGU5.534.30</td>
</tr>
<tr>
<td>graphite</td>
<td>MGU5.534.12</td>
</tr>
</tbody>
</table>

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
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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

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>aluminium</td>
<td>MGU50.534.30</td>
</tr>
<tr>
<td>graphite</td>
<td>MGU50.534.12</td>
</tr>
</tbody>
</table>

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
- 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 units

### Room temperature control actuator

**EMO valve drive with 2 binary inputs**

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>polar white</td>
<td>MTN639118</td>
</tr>
</tbody>
</table>

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:** 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, art. no. MTN639190.

---

**EMO valve drive**

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>polar white</td>
<td>MTN639119</td>
</tr>
</tbody>
</table>

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 (Si) 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, art. no. MTN639190.

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### Programming magnet

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>MTN639190</td>
</tr>
</tbody>
</table>

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

**KNX fan coil actuator REG-K**

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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</thead>
<tbody>
<tr>
<td>light grey</td>
<td>MTN645094</td>
</tr>
</tbody>
</table>

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 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
- **Switching capacity for valves:** 0.5 A, AC 24 V - 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:** Multi-function push-button with room temperature control unit, art. no. MTN6232, MTN6273, MTN6336, MTN6346, MTN6287, MTN6288
- Thermo electric valve drive 24 V art. no. MTN639126.

**Heating actuator REG-K/6x230/0.05 A**

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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<tbody>
<tr>
<td>light grey</td>
<td>MTN645129</td>
</tr>
</tbody>
</table>

For actuation of thermo electric 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 EN 50022. 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
- **Contents:** With bus connecting terminal and cable cover.
### Thermoelectric valve drive 230 V

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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<tbody>
<tr>
<td>polar white</td>
<td>MTN639125</td>
</tr>
</tbody>
</table>

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:** 60x44x81 mm (HxWxD)

### Thermoelectric valve drive 24 V

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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<tbody>
<tr>
<td>polar white</td>
<td>MTN639126</td>
</tr>
</tbody>
</table>

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

**Circulating 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)
# KNX

## Room temperature control units

<table>
<thead>
<tr>
<th>Valve adapter VA50 for thermoelectric valve drive</th>
<th>Valve adapter VA78 for thermoelectric valve drive</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Version</strong></td>
<td><strong>Art. no.</strong></td>
</tr>
<tr>
<td>MTN639150</td>
<td></td>
</tr>
<tr>
<td>For Honeywell+Braukmann, Reich, Landis+Gyr, MNG, Cazzagniga. Valve adapters permit compatibility with a variety of valve bodies and heating circuit distributors</td>
<td>For Danfoss RA. Valve adapters permit compatibility with a variety of valve bodies and heating circuit distributors</td>
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</tbody>
</table>

## Valve adapter VA80 for thermoelectric valve drive

<table>
<thead>
<tr>
<th><strong>Version</strong></th>
<th><strong>Art. no.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>MTN639180</td>
<td></td>
</tr>
<tr>
<td>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</td>
<td></td>
</tr>
</tbody>
</table>
**Power supplies**

**Power supply REG, 24 V DC / 0.4 A**

<table>
<thead>
<tr>
<th>Version</th>
<th>Art. no.</th>
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<tbody>
<tr>
<td>light grey</td>
<td>MTN693003</td>
</tr>
</tbody>
</table>

Power supply for 24 V binary inputs. For installation onto DIN rails EN 50022. With integrated overload and short-circuit protection.

**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 art. no. MTN644892. Binary input REG-K/8x24 art. no. MTN644792. KNX/IP router REG-K art. no. MTN680329.

**Power supply REG, 24 V DC / 1.25 A**

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Power supply for 24 V binary inputs, IC 1 KNX Internet Controller REG-K, REG-K panel control, KNX/IP router REG-K, 10" IP touch panel. For installation onto DIN rails EN 50022. With integrated overload and short-circuit protection.

**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 art. no. MTN644892. Binary input REG-K/8x24 art. no. MTN644792. KNX/IP router REG-K art. no. MTN680329. IP touch panel 10" art. no. MTN683090.

**Power supply REG, AC 24 V/1 A**

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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. For installation onto DIN rails EN 50022. With fuse.

**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/4x24 art. no. MTN644892. Binary input REG-K/8x24 art. no. MTN644792. Weather station REG-K/4-gang, art. no. MTN682991. Analogue input REG/4-gang art. no. MTN682191. Analogue input module REG/4-gang art. no. MTN682192. Thermoelectric valve drive 24 V art. no. MTN639126.

Contents: With spare fuse.
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