

GIRA

Operating instructions

Button, rocker 1-gang Order no. 5171 .., 5172 ..

Button, rocker 2-gang Order no. 5173 .., 5174 .., 5175 ..

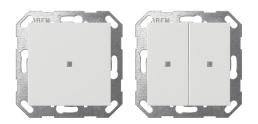




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1 Safety instructions



Electrical devices may only be mounted and connected by electrically skilled persons.

Serious injuries, fire or property damage possible. Please read and follow manual fully.

Danger of electric shock. During installation and cable routing, comply with the regulations and standards which apply for SELV circuits.

This manual is an integral part of the product, and must remain with the end customer.

2 Device components

Front view 1-gang (see figure 1) and 2-gang (see figure 2)

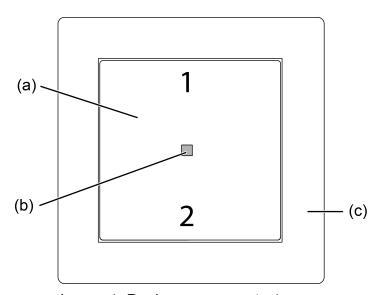


Image 1: Device components 1-gang

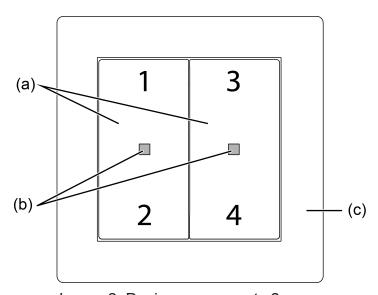


Image 2: Device components 2-gang

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- (a) Operating rockers (accessory)
- (b) Status LED
- (c) Cover frame (accessory)
- 1...4 Push-buttons assignment and status LED

Rear view (see figure 3)

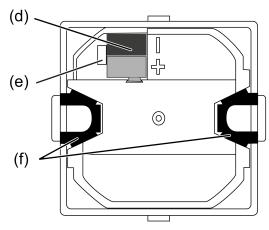


Image 3: Device components

- (d) Device connection terminal KNX
- (e) Opening for removing the KNX connection terminal with screwdriver
- (f) Retaining spring for mounting in supporting frame

3 Function

System information

This device is a product of the KNX system and complies with the KNX directives. Detailed technical knowledge obtained in KNX training courses is a prerequisite to proper understanding.

The function of this device depends upon the software. Detailed information on loadable software and attainable functionality as well as the software itself can be obtained from the manufacturer's product database.

The device can be updated. Firmware can be easily updated with the Gira ETS Service App (additional software).

The device is KNX Data Secure capable. KNX Data Secure offers protection against manipulation in building automation and can be configured in the ETS project. Detailed specialist knowledge is required. A device certificate, which is attached to the device, is required for safe commissioning. During mounting, the device certificate must be removed from the device and stored securely.

Planning, installation and commissioning of the device are carried out with the aid of the ETS, version 5.7.3 and above.

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Intended use

- Operation of loads, e.g. light on/off, dimming of brightness and colour temperature, colour control with colour run and brightness adjustment, Venetian blinds up/down, value transmitter 1 byte, 2 bytes, 3 bytes and 6 bytes, brightness values, temperatures, calling up and saving of light scenes
- Mounting in appliance box with dimensions according to DIN 49073

Product characteristics

- Push-button sensor functions switching, dimming, colour control, Venetian blind, value transmitter, scene extension, 2-channel operation and controller extension adjustable
- Controller extension with adjustable operating mode selection, forced operating mode switch over, presence function and setpoint shift
- Status LED optionally red, green, blue adjustable per rocker
- LED functions orientation lighting and night reduction can be set separately
- Brightness of LED adjustable and switchable while in operation
- Disable or function switch-over of all or of individual button functions possible with disabling function
- Temperature measurements optionally with device internal sensor and external sensor connected via communication object
- Integrated bus coupling unit

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4 Operation

The operation of functions or electrical consumers can be set individual for each device:

| Operating concept | single-area operation | dual-area operation |
|-------------------|---|---|
| Rocker function | | Each rocker can perform an individual function. |
| | Two push-buttons above one another perform the same function. | • |

4.1 Examples for operating various standard applications

- Switch: Short press on button.
- Dim: Long press on button. The dimming process ends when the button is released.
- Move Venetian blind: Long press on button.
- Stop or adjust Venetian blind: Short press on button.
- Set value, e.g. brightness or temperature setpoint: Short press on button.
- Open scene: Short press on button.
- Save scene: Long press on button.
- Execute channel 1: Short press on button.
- Execute channel 2: Long press on button.
- Operate controller extension: Short press on button.

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5 Information for electrically skilled persons

5.1 Mounting and electrical connection



DANGER!

Mortal danger of electric shock.

Cover up live parts in the installation environment.

Mounting and connecting the device (see figure 4)

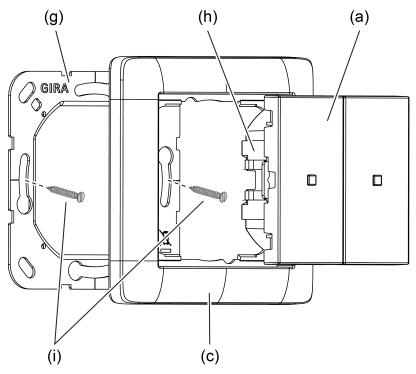


Image 4: Mounting the device

- (a) Operating rockers
- (c) Cover frame
- (g) Supporting frame
- (h) Basic unit
- (i) Box screws
- **i** The device should be used in an air-tight appliance box. Otherwise temperature measurements can be negatively influenced by draughts.

In secure operation (preconditions):

- Secure commissioning is activated in the ETS.
- Device certificate entered/scanned or added to the ETS project. A high resolution camera should be used to scan the QR code.
- Document all passwords and keep them safe.

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- Mount supporting frame on an appliance box
- i Use the supplied box screws.
- Position the cover frame on the supporting frame.
- Connect device to the KNX using KNX connecting terminal (red= +, black = -).
- In secure operation: The device certificate must be removed from the device and stored securely.
- Attach device onto the supporting frame.

Cover frame is fixed.

The device can be commissioned and is ready for operation.

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5.2 Commissioning

Programming the physical address and application program, 1-gang (see figure 5) and 2-gang (see figure 6)

i Project design and commissioning with ETS from version 5.7.3 and above.

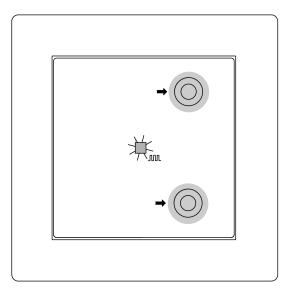


Image 5: Activating programming mode (1-gang)

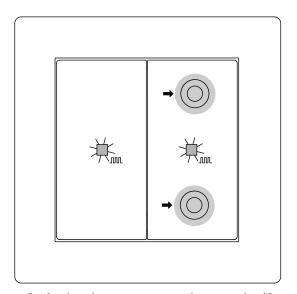


Image 6: Activating programming mode (2-gang)

Precondition: The device is connected and ready for operation.

- Activate programming mode: Press the top right button and bottom right button simultaneously and hold for longer than 4 seconds (see figure 5).
 The Status LED flashes red. Programming mode is activated.
- i When the programming mode is activated, telegrams can be sent to the bus.
- Programming the physical address.
 The status LED returns to its previous state. Physical address is programmed.

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- Programming the application program.
- i The status LED is switched off while the application program is programmed. As soon as the programming is successfully completed, the status LED carries out its parameterised function.
- i When the application program is discharged and the bus voltage is connected, all status LEDs initially light up green. Whenever a button is actuated, the respective illuminated status LED changes colour (green → red → blue → green → ...).

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5.2.1 Safe-state mode

The safe-state mode stops the execution of the loaded application program.

If the device does not work properly - for instance as a result of errors in the project design or during commissioning - the execution of the loaded application program can be halted by activating the safe-state mode. The safe-state mode does not permit controlling the outputs via the bus and by hand. The push-button remains passive since the application program is not being executed (state-of-execution: terminated). Only the system software is still functional so that the ETS diagnosis functions and also programming of the device continue to be possible.

i Only the system software of the device is still functional. ETS diagnosis functions and programming of the device are possible.

Activating safe-state mode

- Switch off the bus voltage.
- Press and hold down the top right and bottom right button.
- Switch on the bus voltage.

The safe-state mode is activated. The status LED flashes red slowly (approx. 1 Hz).

i Only release the top right and bottom right buttons when the LED flashes.

Deactivating safe-state mode

Switch off bus voltage or carry out ETS programming.

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5.2.2 Master reset

The master reset restores the basic device settings (physical address 15.15.255, firmware remains in place). The device must then be recommissioned with the ETS.

i In secure operation: A master reset deactivates device security. The device can then be recommissioned with the device certificate.

Devices can be reset to factory settings with the ETS Service App. This function uses the firmware contained in the device that was active at the time of delivery (delivered state). Restoring the factory settings causes the devices to lose their physical address and configuration.

If the device - for instance as a result of errors in the project design or during commissioning - does not work properly, the loaded application program can be deleted from the device by performing a master reset. The master reset resets the device to delivery state. Afterwards, the device can be put into operation again by programming the physical address and application program.

Performing a master reset

Precondition: The safe-state mode is activated.

 Press and hold down the top right and bottom right button for more than 5 seconds until the status LED flashes.

The device performs a master reset. The status LED flashes quickly (approx. 4 Hz).

The device restarts and is in delivery state.

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Button, rocker GIRA

6 Technical data

KNX

KNX medium

KNX commissioning mode

Rated voltage KNX

Current consumption KNX

Connection mode KNX

Connecting cable KNX

TP256

S-mode

S-mode

BC 21 ... 32 V SELV

Standard device connection terminal

EIB-Y (St)Y 2x2x0.8

Protection class III

Ambient conditions

Ambient temperature $-5 \dots +50 \,^{\circ}\text{C}$ Storage/transport temperature $-25 \dots +70 \,^{\circ}\text{C}$ Relative humidity max. 93 % (no condensation)

7 Warranty

The warranty is provided in accordance with statutory requirements via the specialist trade. Please submit or send faulty devices postage paid together with an error description to your responsible salesperson (specialist trade/installation company/electrical specialist trade). They will forward the devices to the Gira Service Center.

Gira
Giersiepen GmbH & Co. KG
Elektro-InstallationsSysteme

Industriegebiet Mermbach Dahlienstraße 42477 Radevormwald

Postfach 12 20 42461 Radevormwald

Deutschland

Tel +49(0)21 95 - 602-0 Fax +49(0)21 95 - 602-191

www.gira.de info@gira.de

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