

Operating instructions

Pushbutton sensor 4 Komfort, 1-gang
Order no. 5001 ..

Pushbutton sensor 4 Komfort, 2-gang
Order no. 5002 ..

Pushbutton sensor 4 Komfort, 4-gang
Order no. 5004 ..



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1 Safety instructions



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

Serious injuries, fire or property damage are possible. Please read and follow the 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 customer.

2 Device components

Front view

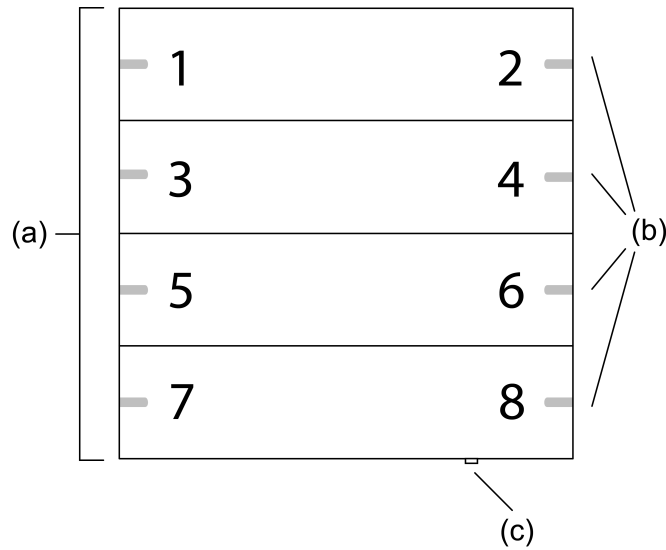


Figure 1: Device components 4-gang

- (a) Operating rockers
- (b) Status LED
- (c) Additional button
- 1...8 Buttons assignment and status LED

i The additional button (c) is functional from hardware version I01 onwards and is only intended for the KNX system.

Rear view

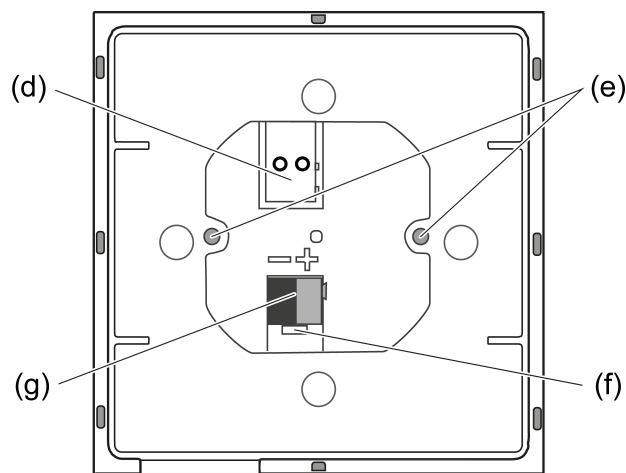


Figure 2: Device components - rear side

- (d) Connection for remote sensor
- (e) Locking screws
- (f) Opening for removing the device connection terminal with a screwdriver

(g) Device connection terminal

3 System information

This device is a product for the Gira One Smart Home system. The Gira One system is commissioned easily and in a time-saving manner using the Gira Project Assistant.

The Gira One Smart Home system enables the control and automation of lighting, heating and shading, as well as connection to various third-party systems and much more. It can be operated via Gira One switches, by app from home or securely from a remote location. Electrically skilled persons can maintain the Gira One project remotely free of charge.

Data transmission between the Gira One devices is encrypted. This provides protection against third-party access and manipulation.

Commissioning is carried out with the free Gira Project Assistant (GPA), version 5 or higher. Free function and security updates are also transferred to the Gira One devices with the GPA.

The Gira One system is based on the globally proven KNX smart home standard.

4 Intended use

- Operation in Gira One system
- Operation of loads, e.g. lights, shading
- Mounting in appliance box with dimensions according to DIN 49073

5 Product characteristics

- Push-button sensor 4 comfort for operation of the Gira One system
- Integrated temperature sensor for measuring the room temperature
- Integrated air humidity sensor for measuring the ambient air humidity
- Input for external remote sensor for measuring the floor temperature
- Programming and commissioning with the Gira Project Assistant (GPA), version 5.1 or higher
- Encrypted data transmission between the Gira One devices

Operating functions

- Switching loads, such as light, socket or pump
- Dim the light
- Operation of shading and ventilation loads (Venetian blinds, shutters, roof windows, roof domes and awnings)
- Convenient group control of switching, dimming, shading and ventilation loads
- Recalling scene variants
- Operation as staircase switch for activation of staircase function with switching and dimming loads
- Function as floor call push-button together with the Gira G1
- Control of Sonos audio devices
- Control of hue loads
- Control of eNet loads
- Function as door or garage door opener
- Boost function

Room temperature

- Temperature calibration for the integrated temperature sensor

LED display

- The brightness of the status LED can be set to 5 levels and OFF
- The colour of the status LEDs (red, green, blue, yellow, cyan, orange, violet or white) can be set
- Function selection of the status LEDs can be set according to the rocker function: always OFF, always ON, actuation display or status display

6 Operation

- Switch: Short press on button.
- Dim: Long press on button. The dimming process ends when the button is released.
- Move shading: Long press on button.
- Stop or adjust shading: Short press on button.

7 Information for electrically skilled persons

7.1 Mounting and electrical connection



DANGER!

Electric shock when live parts are touched.

Electric shocks can be fatal.

Cover up live parts in the installation environment.

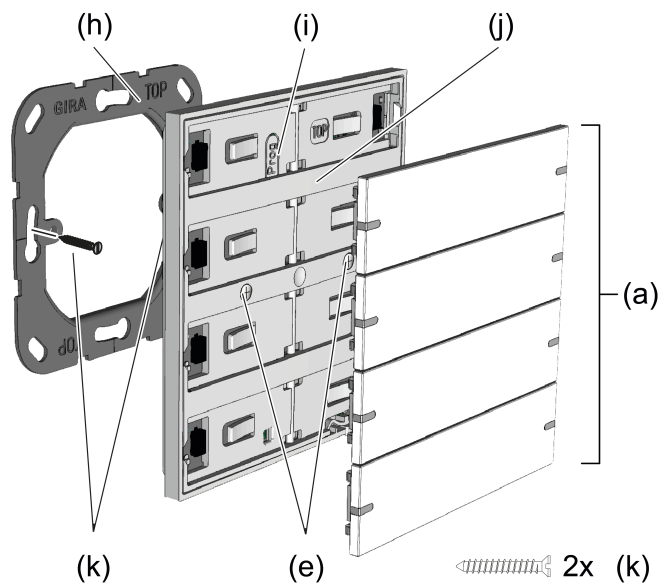


Figure 3: Mount device

- (a) Operating rockers
- (e) Locking screws
- (h) Supporting frame
- (i) Programming button
- (j) Push-button sensor
- (k) Box screws

Mounting and connecting the device (see figure 3)

- i** The device should be used in an air-tight appliance box. Otherwise temperature and humidity reading can be negatively influenced by draughts.
 - Enter or scan the device certificate and add it to the project. A high resolution camera should be used to scan the QR code.
 - The device certificate should be removed from the device during mounting.
 - Document all passwords and keep them safe.
 - Mount supporting frame (h) in the right orientation on an appliance box.
- i** Note the **TOP** marking.

- i** Use the enclosed box screws (k).
 - Pull off commissioning rockers from push-button sensor.
- i** The push-button sensor is delivered with commissioning rockers. The operating rockers suitable for the push-button sensor must be ordered separately (see accessories).
 - Connect bus line with device connection terminal observing the correct polarity (red = +, black = -).
 - Optional: Connect remote sensor (see accessories) to connection (d). The relevant device connection terminal is included with the remote sensor.
 - Attach push-button sensor (j) onto the supporting frame (h).
 - Screw push-button sensor (j) with the integrated locking screws (e) onto supporting frame. Connection torque max. 0.8 Nm.
 - Optional: Cover up the locking screws (e) with the labels supplied with the rocker set (only for the 2-gang and 4-gang device variants).
Push-button sensor can be put into operation.
- Snap on operating rockers (a).
Device is ready for operation.

7.2 Commissioning

The device is commissioned with the Gira Project Assistant (GPA), version 5.1 or higher.

- i** All status LEDs are switched off during programming. As soon as the programming is successfully completed, the status LEDs carry out their parameterised function.
- i** When the program is discharged and the bus voltage is connected, all status LEDs initially light up white. Whenever a button is actuated, the respective illuminated status LED changes colour (white → red → green → blue → yellow → cyan → orange → violet → white → ...).

7.2.1 Safe-state mode

The safe-state mode stops the execution of the program. Only the system software of the device is still functional. Diagnosis functions and programming of the device are possible.

Activating safe-state mode

- Switch off the voltage.
- Press and hold down the programming button.
- Switch on voltage.

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

- i** Release the programming button only after the programming LED starts flashing.

Deactivating safe-state mode

- Switch off the voltage or carry out programming.

7.2.2 Master reset

The master reset restores the basic device settings (firmware remains in place). The device must then be recommissioned with the GPA.

Performing a master reset

Precondition: The safe-state mode is activated.

- Press and hold down the programming button for > 5 seconds until the programming LED starts flashing quickly.
- Release the programming button.

The device performs a master reset. The programming LED is switched on.

The device restarts and is in delivery state.

7.3 Mounting the rockers

- Attach the rocker centrally.
- Press on the rocker with both thumbs (see figure 4).
The rocker snaps into place.

Device is ready for operation.

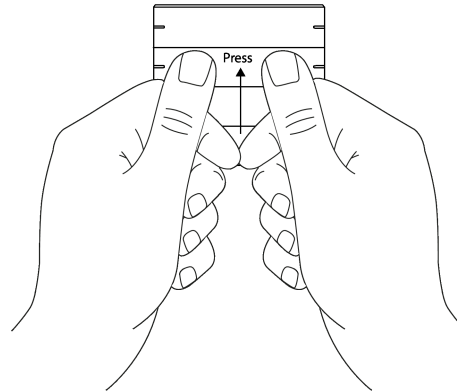


Figure 4: Press lightly in the middle of the rocker

7.4 Removing commissioning rockers

- Pull the commissioning rocker on both sides to release it from the push-button sensor (see figure 5).

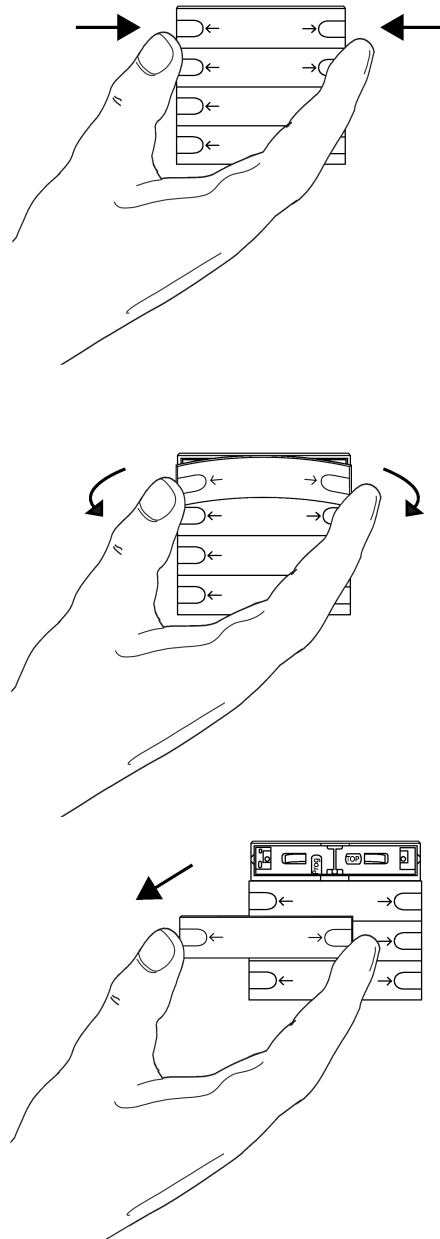


Figure 5: Removing the commissioning rocker

7.5 Removing rockers

- Pull the rocker on one side to release it from the push-button sensor (see figure 6).

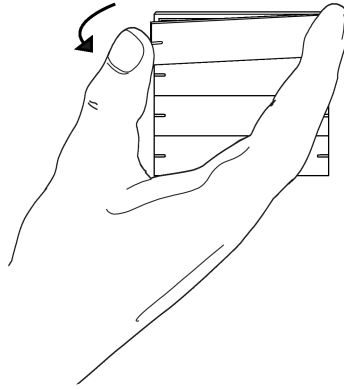


Figure 6: Removing the rocker

8 Technical data

Rated voltage	DC 21 ... 32 V SELV
Current consumption, bus	8 ... 18 mA
Connection type for bus	Device connection terminal
Connecting cable, bus	EIB-Y (St)Y 2x2x0.8
Protection class	III

Installation dimensions (see figure 7)

Construction height	12.5 µm
Installation depth	15.5 µm

Mechanism

Loosening torque locking screws	max. 0.8 Nm
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Connection cable remote sensor (see accessories)

Cable type extension	NYM-J 3×1.5 or J-Y(St)Y 2×2×0.8
Total length remote sensor line	Max. 50 m

Ambient conditions

Ambient temperature	-5 ... +45°C
Storage/transport temperature	-20 ... +70°C

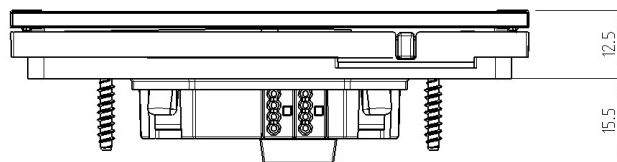


Figure 7: Installation dimensions

9 Parameter list

Parameters that can be set via the GPA:

Status LED brightness	Off Heavily dimmed Dimmed Normal Bright Very bright
<p>The brightness of the status LEDs can be defined here.</p> <p>In the case of the push-button sensor 2-gang or 4-gang, this setting applies to all LEDs.</p>	
Colour	Red, green, blue, yellow, cyan, orange, violet, white
<p>The colour of the status LEDs can be defined here.</p> <p>In the case of the push-button sensor 2-gang or 4-gang, the colour of the status LEDs can be defined separately for each rocker.</p>	
Function	always OFF always ON Button-actuation display Status indication
<p>The function of the status LEDs can be defined here.</p> <p>In the case of the push-button sensor 2-gang or 4-gang, the function of the status LEDs can be defined separately for each rocker.</p> <p>The settings have the following functions:</p> <ul style="list-style-type: none"> - always OFF The status LED is always off - always ON The status LED is always on. - Button-actuation display The status LED lights up when the rocker is actuated. - Status indication The status LED indicates the state of the function triggered by the rocker. If the feedback for several switch loads is displayed, the status LED is then switched on (if at least 1 load from the group is switched on). 	
Temperature calibration	- 12.8 ... 12.7 K
<p>The value for the temperature calibration can be entered here if the temperature measured by the temperature sensor in the push-button sensor or by the connected remote sensor differs from the actual room temperature.</p>	

Temperature calibration	- 12.8 ... 12.7 K
<p>To determine the temperature deviation, the actual room temperature should be detected with a reference measurement using a calibrated temperature measuring device.</p> <p>The measured value must be raised if the value measured by the sensor is below the actual temperature. The measured value must be lowered if the value measured by the sensor is above the actual temperature.</p>	

10 Accessories

i Individually labelled rocker sets are available from the Gira inscription service www.beschriftung.gira.de.

Rocker set, 1-gang for pushbutton sensor 4	Order no. 5021 ..
Rocker set, 1-gang, inscribable, for pushbutton sensor 4	Order no. 5031 ..
Rocker set, 2-gang for pushbutton sensor 4	Order no. 5022 ..
Rocker set, 2-gang, inscribable, for pushbutton sensor 4	Order no. 5032 ..
Rocker set, 4-gang for pushbutton sensor 4	Order no. 5024 ..
Rocker set, 4-gang, inscribable, for pushbutton sensor 4	Order no. 5034 ..
Remote sensor	Order no. 1493 00

11 Warranty

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

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