

Operating instructions

Pushbutton sensor 4.55 Komfort, 1-gang
Art. no. 5045 00

Pushbutton sensor 4.55 Komfort, 2-gang
Art. no. 5046 00

Pushbutton sensor 4.55 Komfort, 3-gang
Art. no. 5047 00

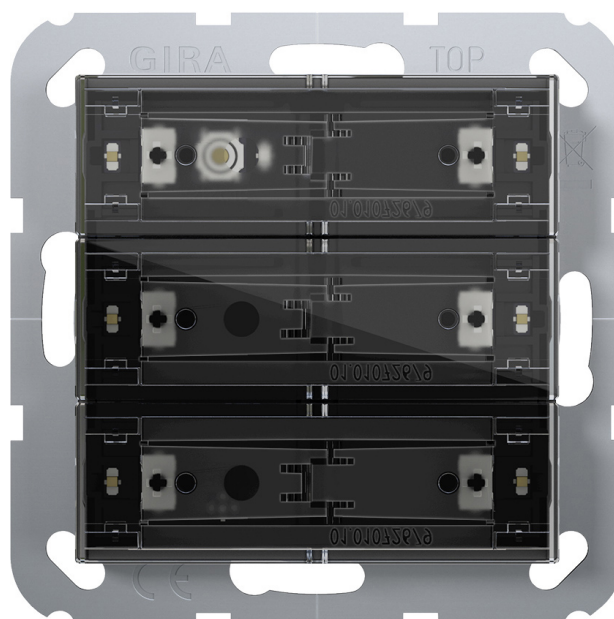


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1 Safety instructions



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

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

Danger of electric shock. Comply with the regulations and standards that apply to SELV circuits during the installation and cable routing.

These instructions are an integral part of the product, and must remain with the customer.

2 Device components

Front view

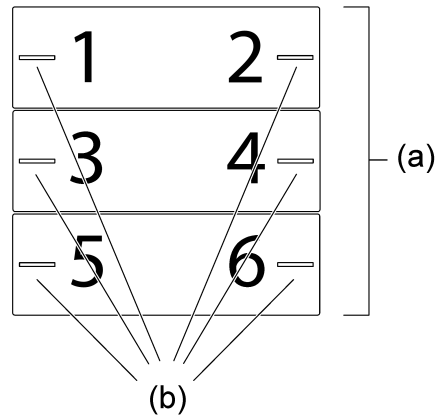


Figure 1: Device components 3-gang (installation position: "standard installation position", horizontal rockers)

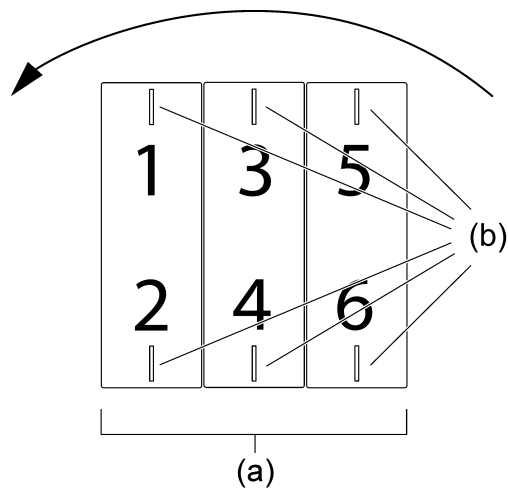


Figure 2: Device components 3-gang (installation position: "turned by -90°", vertical rockers)

- (a) Operating rockers (accessory)
- (b) Status LED
- 1...6 Push-buttons assignment and status LED

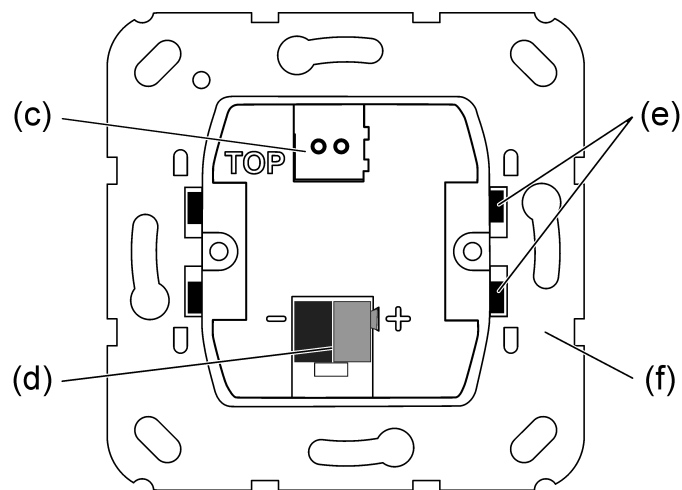
Rear view

Figure 3: Device components - rear side

- (c) Device connection terminal for remote sensor (optional)
- (d) Device connection terminal KNX
- (e) Retaining clips for device fixation at the supporting frame
- (f) Supporting frame

3 System information

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). Free function and security updates are also transferred to the Gira One devices with the GPA. Always use the latest version of the Gira Project Assistant (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 system 55 for the operation of Gira One loads
- Integrated temperature sensor for measuring the room temperature
- Integrated humidity sensor (VOC) for measuring indoor humidity
- Input for external remote sensor for measuring the floor temperature
- Programming and commissioning is carried out with the current version of the Gira Project Assistant (GPA)
- Encrypted data transmission between the Gira One devices
- Push-button sensor 4 comfort combinable in Gira system 55

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 indicator

- 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 Venetian blind: Long press on button.
- Stop or adjust Venetian blind: 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.

The push-button sensor (see figure 4) can be installed horizontally ("standard installation position") or vertically ("turned by -90°" installation position).

- i** For horizontal installation ("standard installation position") the top of the push-button sensor is labelled with **TOP**.
- i** For vertical installation ("turned by -90°" installation position) the left side of the push-button sensor is labelled with **TOP**.

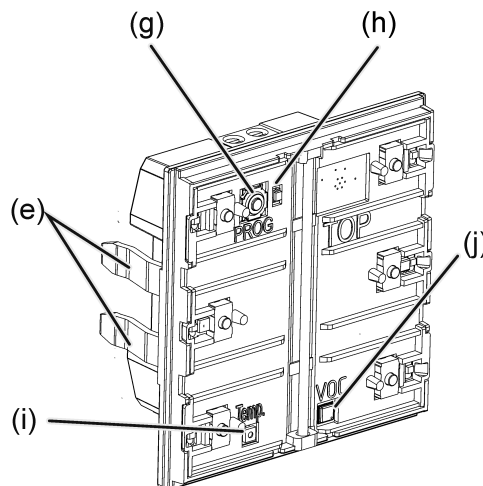


Figure 4: Push-button sensor

- (e) Retaining clips for device fixation at the supporting frame
- (g) Programming button
- (h) Programming LED
- (i) Temperature sensor
- (j) VOC sensor

Mounting and connecting the device

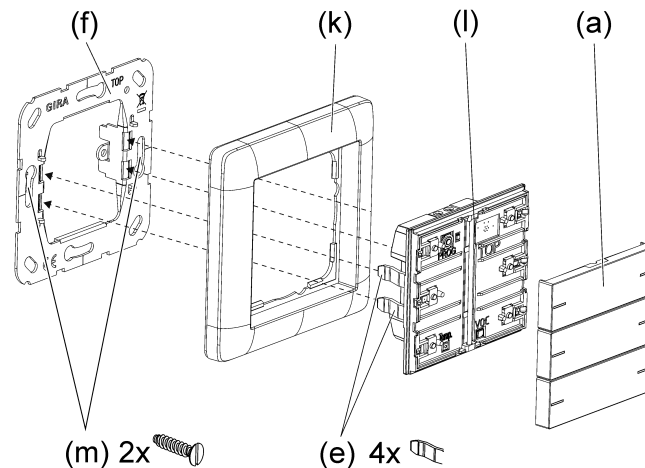


Figure 5: Mount device

- (a) Operating rockers (accessory)
- (e) Retaining clips for device fixation at the supporting frame
- (f) Supporting frame
- (k) Cover frame (accessory)
- (l) Push-button sensor
- (m) Box screws

- 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.

Precondition: The installation position of the push-button sensor is defined.

- Mount supporting frame in the right orientation, "standard installation position" or "turned by -90°", on an appliance box.
- i** Note the **TOP** marking.
- i** Use the enclosed box screws.
 - 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 for remote sensor. The relevant device connection terminal is included with the remote sensor.

- Fit the cover frame flush. The cover frame is fixed via the push-button sensor.
- Attach the push-button sensor with cover frame onto the supporting frame.

Push-button sensor can be put into operation.

-  Make sure the that the retaining clips properly fit in the supporting frame.

7.2 Commissioning

Commissioning the device

The device is commissioned with the Gira Project Assistant (GPA).

- 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 loaded 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.

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

-  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

Prerequisite: 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

- Slide the side of the rocker into place (see figure 6).

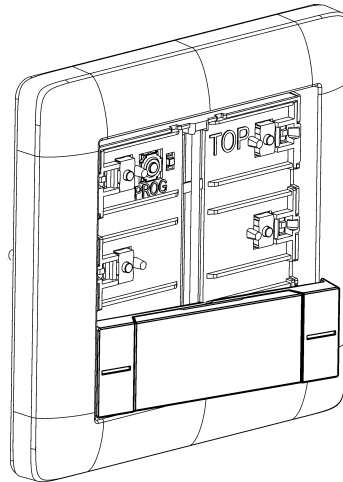


Figure 6: Slide the side of the rocker into place

- Press in the middle of the rocker (see figure 7).

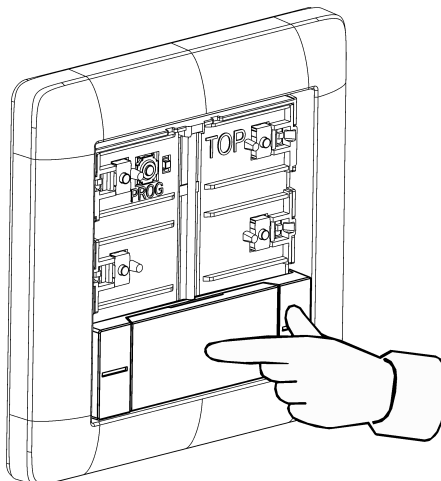


Figure 7: Press lightly in the middle of the rocker

The rocker snaps into place.

Device is ready for operation.

- i** In order to optimise the gap dimensions between the rockers and the cover frame, the rockers can be moved slightly after snapping into place.

7.4 Dismantling

- Carefully pull the push-button sensor forward together with the cover frame.
- Pull the rockers on one side to loosen them from the push-button sensor.

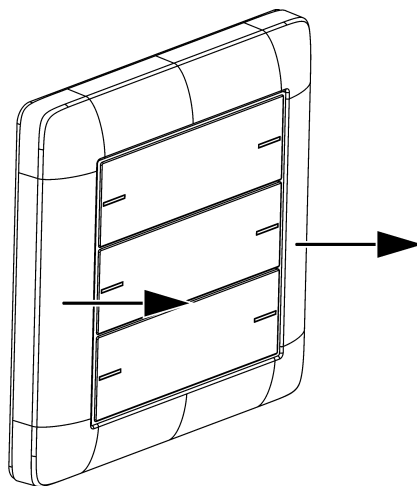


Figure 8: Dismantle the push-button sensor

7.5 Exchanging the labelling field

The rocker has a labelling field

- Search for a notch in the cover of the labelling field by feeling with a finger (see figure 9).
- Pull on one side at the notch in the cover of the labelling field to separate from the rocker (see figure 10).

The labelling field is uncovered.

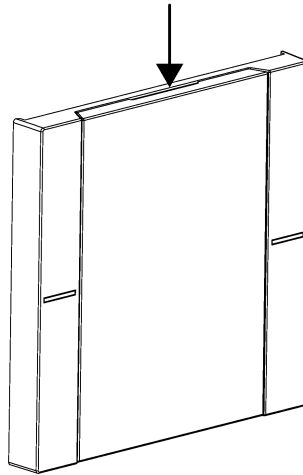


Figure 9: Feel for a notch in the labelling field cover

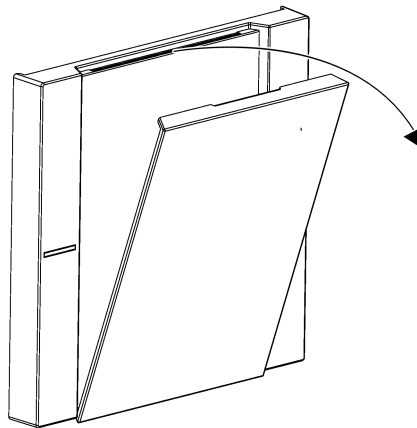


Figure 10: Remove the labelling field cover

- Exchanging the labelling field.
- Press the cover of the labelling field onto the rocker so that it snaps into place.

The labelling field is exchanged.

8 Technical data

Rated voltage	DC 21 ... 32 V SELV
Current consumption, bus	8 ... 18 mA
Bus connection type	Device connection terminal
Connecting cable, bus	EIB-Y (St)Y 2x2x0.8
Protection class	III
Installation dimensions (see figure 11)	
Construction height	A = 11.9 mm A = 12.5 mm (stainless steel rocker set)
Installation depth	B = 13.8 mm
Connection cable remote sensor (see accessories)	
Cable type extension	NYM-J 3x1.5 or J-Y(St)Y 2x2x0.8
Total length remote sensor line	max. 30 m
Ambient conditions	
Ambient temperature	-5 ... +45 °C
Storage/transport temperature	-20 ... +70 °C
Relative humidity	5 ... 95% (no condensation)

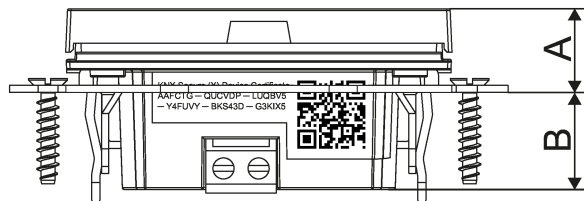


Figure 11: Installation dimensions

9 Parameter list

Parameters that can be set via the GPA:

Status LED brightness	Off Heavily dimmed Dimmed Normal Bright Very bright
The brightness of the status LEDs can be defined here. In the case of the push-button sensor 2-gang or 3-gang, this setting applies to all LEDs.	
Colour	Red, green, blue, yellow, cyan, orange, violet, white
The colour of the status LEDs can be defined here. In the case of the push-button sensor 2-gang or 3-gang, the colour of the status LEDs can be defined separately for each rocker.	
Function	always OFF always ON Button-actuation indication Status indication
The function of the status LEDs can be defined here. In the case of the push-button sensor 2-gang or 3-gang, the function of the status LEDs can be defined separately for each rocker. The settings have the following functions: – always OFF The status LED is always off – always ON The status LED is always on. – Button-actuation indication 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 switch on (if at least 1 load from the group is switched on).	
Temperature calibration	- 12.8 ... 12.7 K
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.	

Temperature calibration	- 12.8 ... 12.7 K
To determine the temperature deviation, the actual room temperature should be determined by a reference measurement using a calibrated temperature measuring device. 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.	

10 Accessories



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

	Art. no.
Rocker set, 1-gang for pushbutton sensor 4.55	5751 ..
Rocker set, 1-gang, inscribable, for pushbutton sensor 4.55	5761 ..
Rocker set, 1-gang, inscribable, for pushbutton sensor 4.55	5771 ..
Rocker set, 2-gang for pushbutton sensor 4.55	5752 ..
Rocker set, 2-gang, inscribable, for pushbutton sensor 4.55	5762 ..
Rocker set, 2-gang, inscribable, for pushbutton sensor 4.55	5772 ..
Rocker set, 4-gang for pushbutton sensor 4.55	5753 ..
Rocker set, 4-gang, inscribable, for pushbutton sensor 4.55	5763 ..
Rocker set, 3-gang, inscribable, for pushbutton sensor 4.55	5773 ..
Remote sensor	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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