KNX 5011 00 Pushbutton Sensor 4 Standard Komfort Instructions

GIRA
Pushbutton sensor 4 Standard / Komfort System 55

Pushbutton sensor 4 Standard, 1-gang System 55
Order no.: 5011 00
Pushbutton sensor 4 Standard, 2-gang System 55
Order no.: 5012 00
Pushbutton sensor 4 Standard, 3-gang System 55
Order no.: 5013 00
Pushbutton sensor 4 Komfort, 1-gang System 55
Order no.: 5041 00
Pushbutton sensor 4 Komfort, 2-gang System 55
Order no.: 5042 00
Pushbutton sensor 4 Komfort, 3-gang System 55
Order no.: 5043 00
Operating instructions

Contents

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.
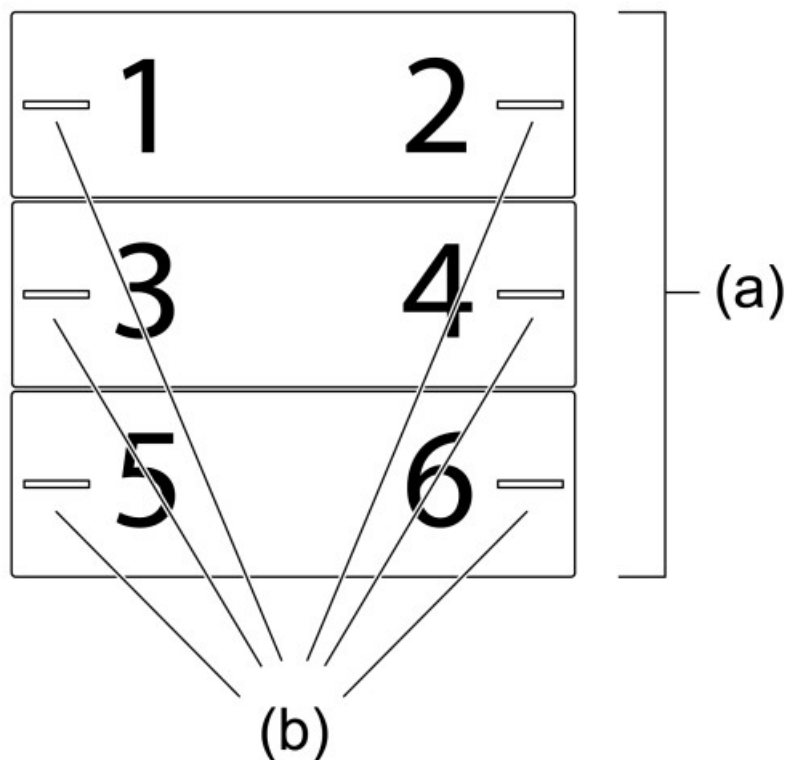
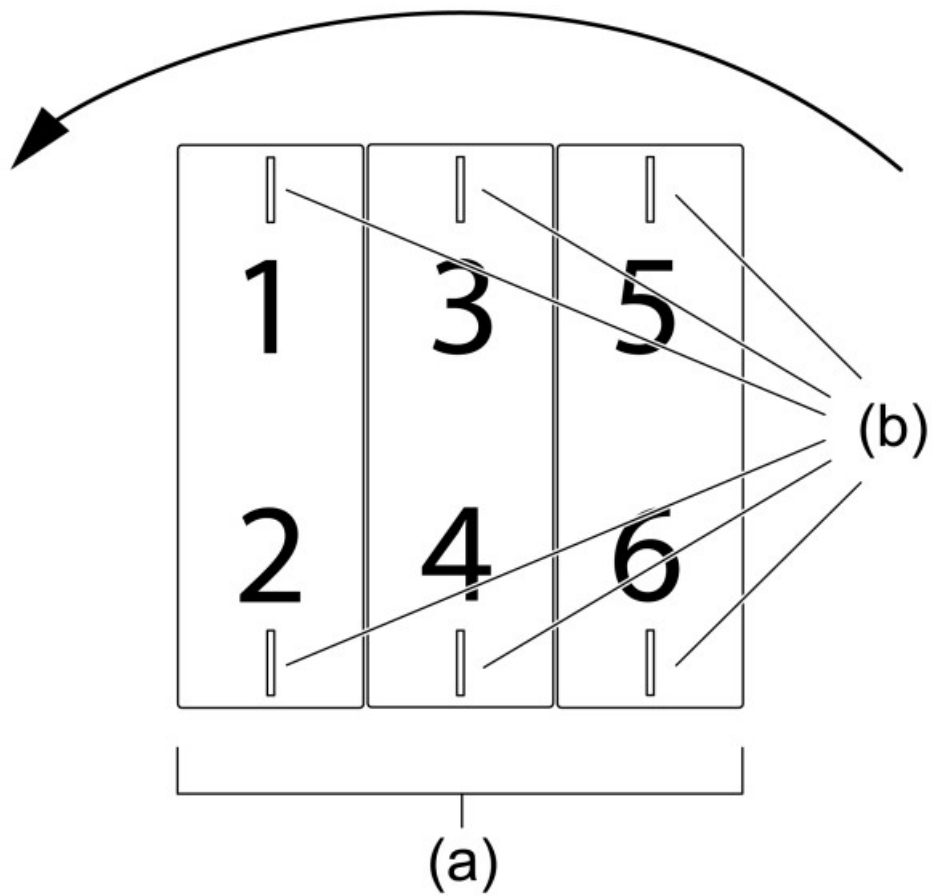## Device components

Front view

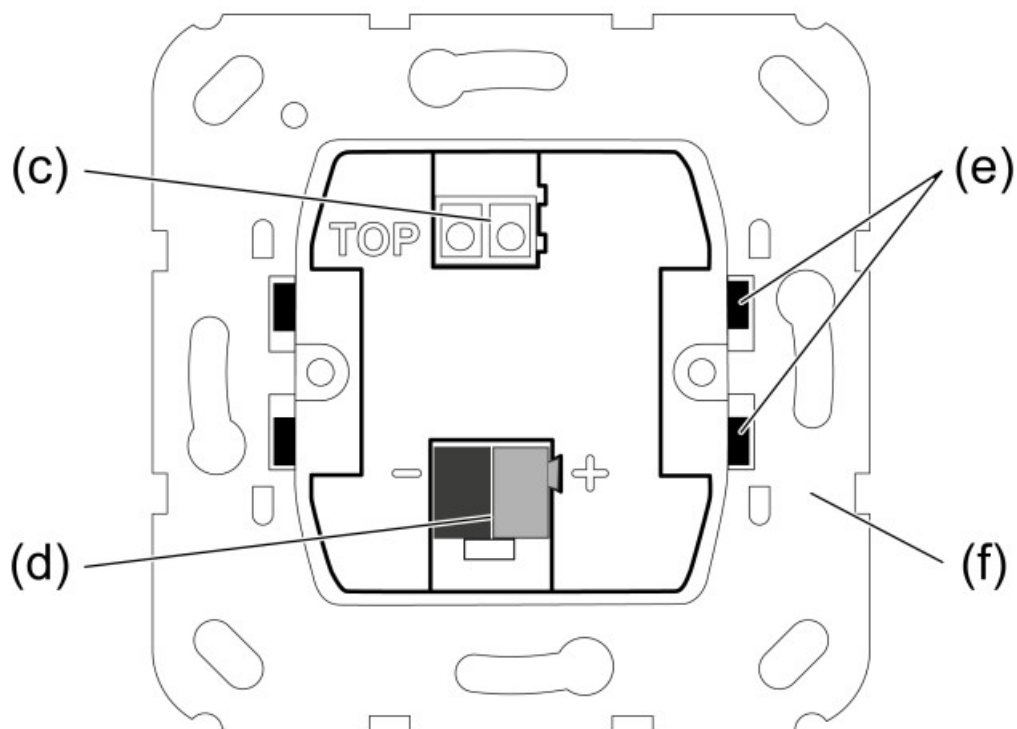**Figure 1: Device components 3-gang ("standard installation location", horizontal rockers)**

Figure 2: Device components 3-gang (installation location "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 (only for "comfort" device variant)
(d) Device connection terminal KNX
(e) Retaining clips for device fixation at the supporting frame
(f) Supporting frame

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 5.7.5 and above.

Intended use

Operation of loads, e.g. light on/off, dimming and colour temperature control, colour control and brightness, Venetian blinds up/down, 1 byte values, 2 byte values, 3 byte values and 6 byte values, brightness values, temperatures, colour temperature values, calling up and saving light scenes as scene extension

Calling up and saving device-internal light scenes (only for "comfort" device variant) Measurement of the room temperature

Measurement of the room temperature (only for "comfort" device variant)

Indication of an alarm (only for "comfort" device variant)

For use as orientation lighting

Installation in appliance box according to DIN 49073

Horizontal installation location in the "standard installation location" or vertical installation

location in the "turned by -90°" installation location

Product characteristics

Product characteristic per product variant	Comfort	Standard
Push-button sensor functions switching, dimming and colour temperature control, colour control and brightness, Venetian blind, value transmitter, scene extension, 2-channel operation and controller extension adjustable	✓	✓
Controller extension with operating mode selection, forced operating mode switch over, presence function and setpoint shift	✓	✓
Status LED – optionally red, green, blue – adjustable per button	✓	✓
Status LED – optionally red, green, blue, yellow, cyan, orange, violet, white – adjustable per button	✓	–
LED functions orientation lighting and night reduction can be set separately	✓	✓
LED functions orientation lighting, alarm signalling 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 but- ton functions possible with disabling function	✓	✓
Scene control up to 8 scenes with 8 scene outputs each	✓	–
Temperature measurements optionally with device in- ternal sensor and external sensor connected via communication object	✓	✓
Temperature measurements optionally with device in- ternal sensor, wired sensor to the device connection terminal and external sensor connected via communication object	✓	–
Room humidity measurement with internal device hu- midity sensor	✓	–
Integrated bus coupling unit	✓	../

Operation

Depending on the programming, a rocker can have up to two functions assigned to it. Operation is carried out by short or long pressing the buttons and depends on the specific function.

6.1 Examples for operating various standard applications

- Switch: Short press on button.

- Dim: Long press on the 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.

Information for electrically skilled persons

7.1 Mounting and electrical connection

⚠️ **DANGER!**
Mortal danger of electric shock.
Cover up live parts in the installation environment.

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

ℹ️ For horizontal installation ("standard installation location") the top of the push-button sensor is labelled with TOP.

ℹ️ For vertical installation ("turned by -90°" installation location) the left side of the push-button sensor is labelled with TOP.
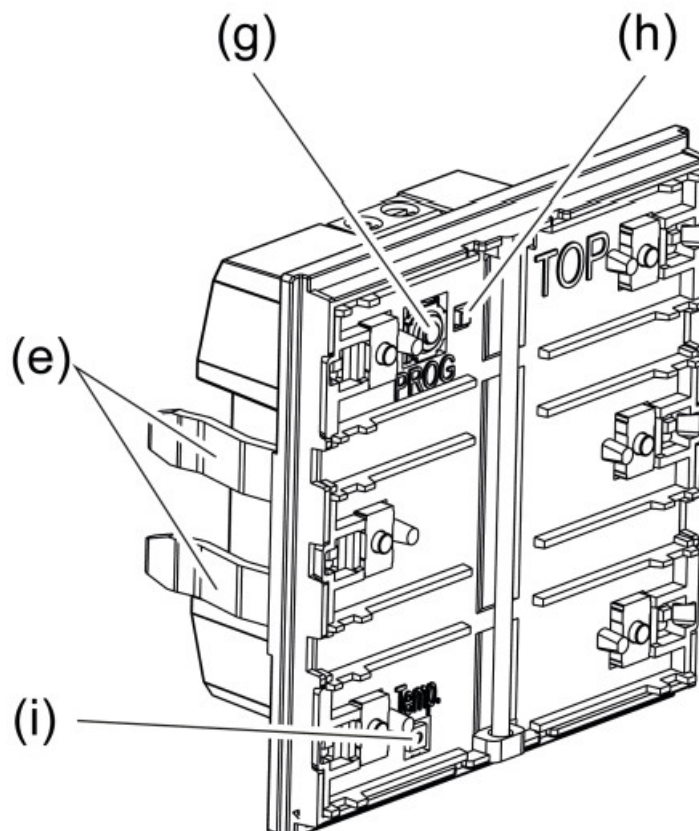

Figure 4: Push-button sensor

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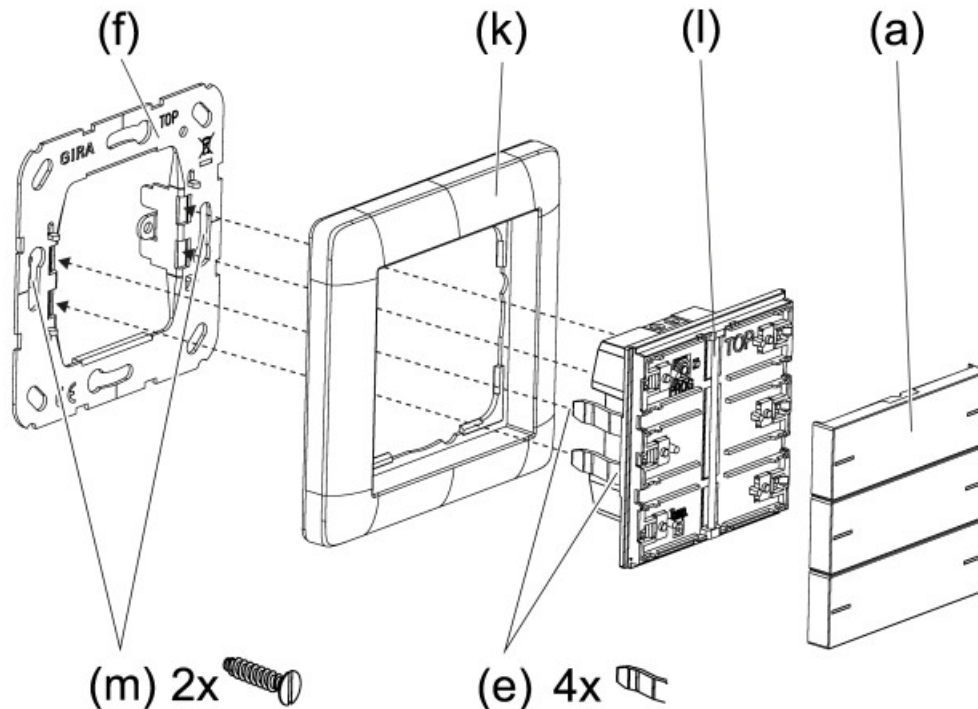(i) Temperature sensor

Mounting and connecting the device

Figure 5: Mounting the 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

ℹ️ The device should be used in an air-tight appliance box. Otherwise temperature and humidity reading 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. Precondition: The installation location of the push-button sensor is defined.

- Mount supporting frame in the right orientation, "standard installation location" or "turned by -90°", on an

  appliance box.

  ℹ️ Note the TOP marking.

  ℹ️ Use the supplied box screws.

- Pull off start-up rockers from push-button sensor.

  ℹ️ The push-button sensor is delivered with start-up rockers. The operating rockers suitable for the push-

button sensor must be ordered separately (see accessories).

- Connect push-button sensor to the KNX using KNX connecting terminal (red = +, black = -).
- In secure operation: The device certificate must be removed from the device and stored securely.
- Optional (only for "comfort" device variant): Connect remote sensor (see accessories) to device connection terminal.
- Fit the cover frame flushly. 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.

[i] Make sure the that the retaining clips properly fit in the supporting frame.

[i] The physical address is programmed (see chapter Commissioning } Page 10) in the next work step. The rockers can then be mounted (see chapter Mounting the rockers } Page 12).

7.2 Commissioning

[i] Programming the physical address and application program
Project design and commissioning with ETS from version 5.7.5 and above.
The programming button is located under the first rocker.
Precondition: The device is connected and ready for operation.
The first rocker is dismantled.

- Activating Programming mode: push the programming button.

  The programming LED lights up red. Programming mode is activated.
- Programming the physical address.

  The programming LED goes out. Physical address is programmed.
- Programming the application program.

  The device is for use.

  [i] All status LEDs are switched off while the application program is programmed. As soon as the programming is successfully completed, the status LEDs carry out their parameterised function.

  [i] Only for "comfort" device variant: When the application 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 in (white → red → green → blue → yellow → cyan → orange → violet → white → …).

  [i] Only for "standard" device variant: 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 → …).

7.2.1 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 device remains passive in safe-state mode, since the application program is not being executed (state of execution: terminated).

[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 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 ETS programming.

7.2.2 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.

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 (as-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 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 (Figure 6).
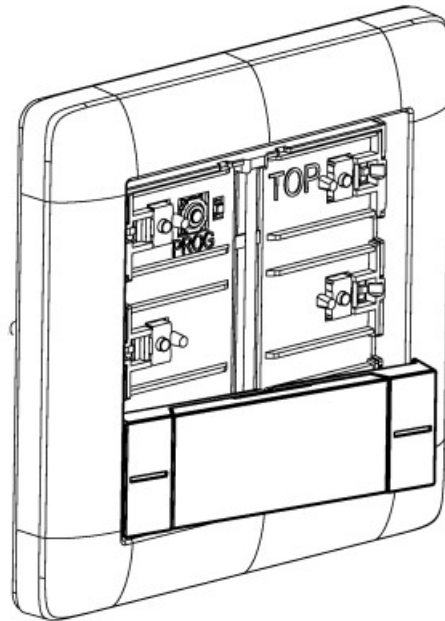
Figure 6: Slide one side of the rocker into place

- Press in the middle of the rocker (Figure 7).
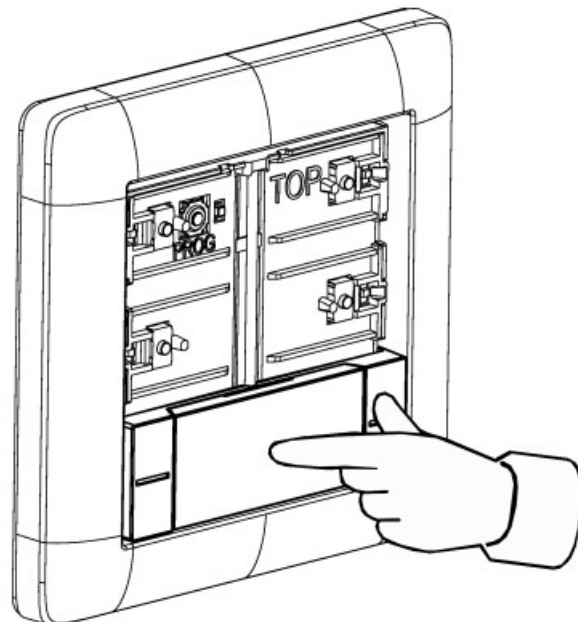
Figure 7: Press lightly in the middle of the rocker

The rocker snaps into place.
Device is ready for operation.

ℹ️ 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.
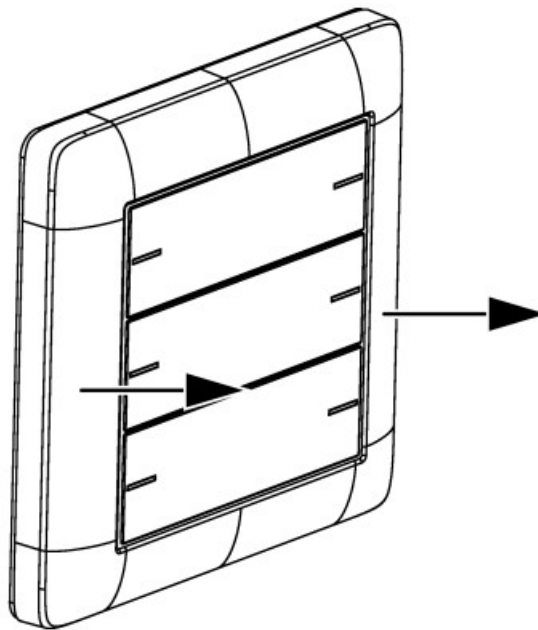
Figure 8: Dismantle the push-button sensor

7.5 Exchanging labelling field
The rocker has a labelling field

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

  The labelling field is uncovered.
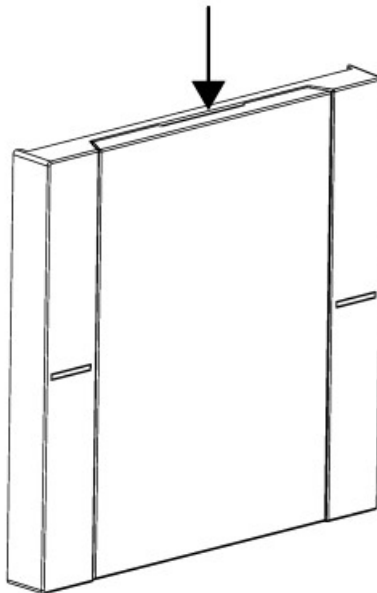
Figure 9: Feel for a notch in the labelling field cover
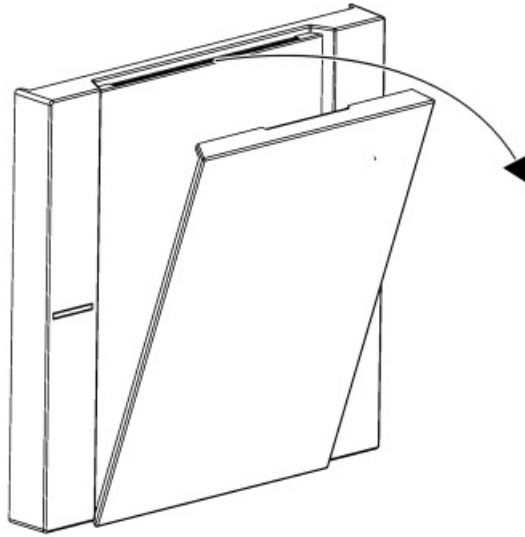
Figure 10: Remove the labelling field cover

- Exchange the labelling field.

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

- The labelling field cover is exchanged.

Technical data

KNX
KNX medium TP256
Commissioning mode S-mode
Rated voltage DC 21 … 32 V SELV
Current consumption KNX 8 … 18 mA
Connection mode KNX
Standard device connection terminal
Connecting cable KNX
EIB-Y (St)Y 2x2x0.8
Protection class III
Protection class III
Installation dimensions (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 3×1.5 or J-Y(St)Y 2×2×0.8
Total length remote sensor line max. 30 m
Ambient conditions
Ambient temperature -5 … +45 °C
Storage/transport temperature -20 … +70 °C
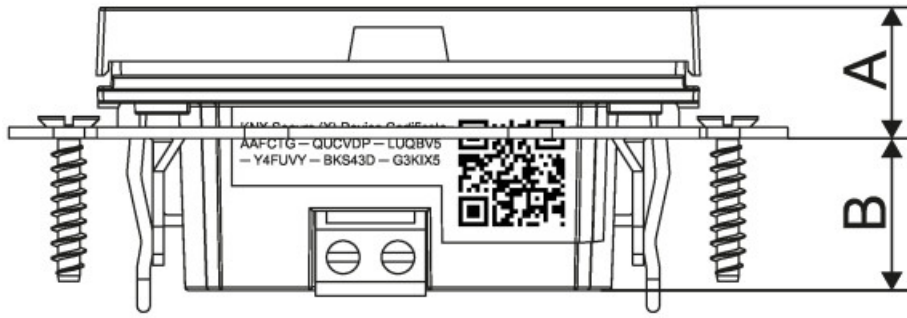
Figure 11: Installation dimensions

Accessories

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. 5751 ..
Rocker set, 1-gang, inscribable, for pushbutton sensor 4 Order no. 5761 ..
Rocker set, 1-gang, inscribable, for pushbutton sensor 4 Order no. 5771 ..
Rocker set, 2-gang for pushbutton sensor 4 Order no. 5752 ..
Rocker set, 2-gang, inscribable, for pushbutton sensor 4 Order no. 5762 ..
Rocker set, 2-gang, inscribable, for pushbutton sensor 4 Order no. 5772 ..
Rocker set, 4-gang for pushbutton sensor 4 Order no. 5753 ..
Rocker set, 4-gang, inscribable, for pushbutton sensor 4 Order no. 5763 ..
Rocker set, 4-gang, inscribable, for pushbutton sensor 4 Order no. 5773 ..
Remote sensor Order no. 1493 00

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.

Documents / Resources

KNX 5011 00 Pushbutton Sensor 4 Standard Komfort [pdf] Instructions
5011 00 Pushbutton Sensor 4 Standard Komfort, 5011 00, Pushbutton Sensor 4 Standard Komfort, 4 Standard Komfort, Standard Komfort, Komfort

References

- 🌐 **Gira Fernfühler**
- 🌐 **Gira Tastsensor 4 Standard 1fach für KNXSystem 55, mit Inbetriebnahme-Wippe /**
- 🌐 **Gira Tastsensor 4 Standard 2fach für KNXSystem 55, mit Inbetriebnahme-Wippe /**
- 🌐 **Gira Tastsensor 4 Standard 3fach für KNXSystem 55, mit Inbetriebnahme-Wippe /**
- 🌐 **Gira Tastsensor 4 Komfort 1fach für KNXSystem 55, mit Inbetriebnahme-Wippe /**
- 🌐 **Gira Tastsensor 4 Komfort 2fach für KNXSystem 55, mit Inbetriebnahme-Wippe /**
- 🌐 **Gira Tastsensor 4 Komfort 3fach für KNXSystem 55, mit Inbetriebnahme-Wippe /**
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