KNX RF radio transmitter module 1-gang
Art. no.: 4071RFTSM
KNX RF radio transmitter module 2-gang
Art. no.: 4072RFTSM
KNX RF radio transmitter module 3-gang
Art. no.: 4073RFTSM
KNX RF radio transmitter module 4-gang
Art. no.: 4074RFTSM

Operating instructions

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.

The radio communication takes place via a non-exclusively available transmission path, and is therefore not suitable for safety-related applications, such as emergency stop and emergency call.

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

2 Battery safety instructions

This device or its accessories are supplied with batteries in the form of button cells.

DANGER! Batteries can be swallowed. This can lead directly to death by suffocation. Dangerous substances may cause severe internal burns leading to death within 2 hours.
Keep new and used batteries away from children.
Do not use devices if the battery compartment does not close securely and keep away from children.
If you suspect that a battery has been swallowed or is in any orifice of the body, seek immediate medical attention.

WARNING! Improper handling of batteries can result in explosion, fire or chemical burn due to leakage.
Do not heat or throw batteries into fire.
Do not reverse polarity, short-circuit or recharge batteries.
Do not deform or disassemble batteries.
Replace batteries only with an identical or equivalent type.
Remove empty batteries immediately and dispose of in an environmentally friendly manner.
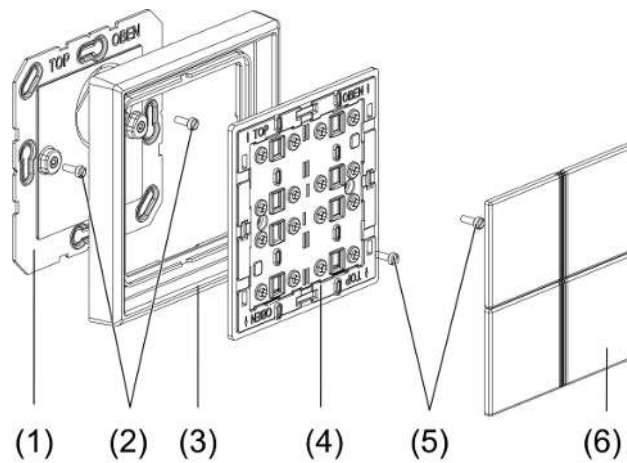
3 Device components

Figure 1: 4-gang radio push-button sensor module

(1)   Base plate
(2)   Fastening screws for the base plate
(3)   Design frame
(4)   Push-button sensor module with adapter frame (see adapter frame assembly instruc-
        tions)
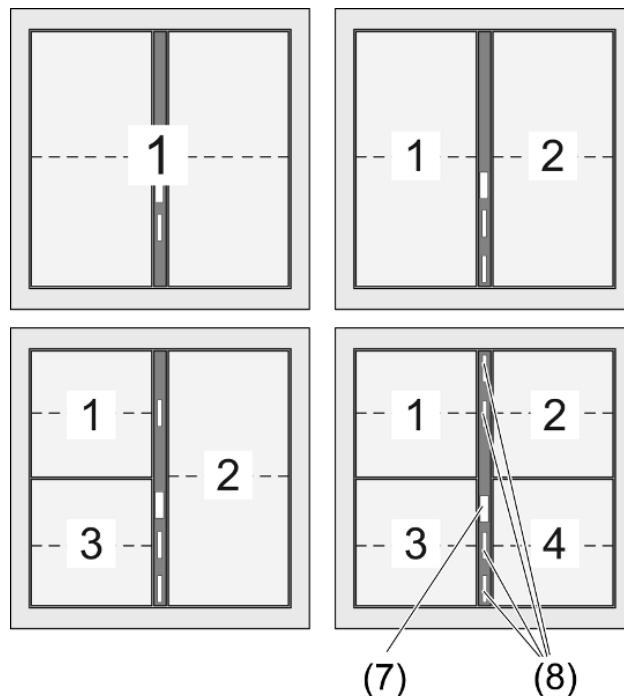(5)   Fastening screws
(6)   Release the

Figure 2: Push-button sensor assignment 1-gang, 2-gang, 3-gang and 4-gang

(7)   Acknowledgement/transmission LED, blue
(8)   Status LED per button pair, red

4 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 range of a radio system depends on various external circumstances. The range can be optimised by the choice of installation location. The product documentation for this device contains application basics for the KNX radio system.

Planning, installation and commissioning are carried out with the aid of KNX-certified software of version ETS5 or higher. You can find the up-to-date product database, technical descriptions and Declaration of Conformity on our Internet site.

Intended use

– Radio operation of loads, e.g. light on/off, dimming, Venetian blinds up/down, brightness values, calling up and saving light scenes.
– Operation in cabled KNX systems via media coupler (see chapter Accessories)

Product characteristics

– Push-button sensor functions switching, dimming, Venetian blind control, value transmitter, scene recall
– One, two, three or four button pairs for push-button sensor function or rocker function
– Status indicator via status LED
– Battery-powered device

Energy saving mode

The device switches to the energy saving mode after a preset time. In energy saving mode, the LEDs remains switched off. During operation, the energy saving mode is exited.

[i] Operations from the energy saving mode are executed immediately.

5 Operation

Operating a function or load

■ Switch: Short press on button.
■ Dim: Long press on the button.
■ Move Venetian blind: Long press on button.
■ Stop or adjust Venetian blind: Short press on button.
■ Call up light scene: Short press on button.
■ Save light scene: Press button for longer than 5 seconds.
■ Set value: Press button briefly.

LED function

Acknowledgement/transmission LED (7) lights up after pressing a button and goes out as soon as the feedback has been received from the actuator. After the acknowledgement/transmission LED goes out, the status LED (8) displays the actuator feedback. The display duration can be changed by the programming or can be dispensed with entirely.

The acknowledgement/transmission LED flashes rapidly if a transmission error occurs.

6 Information for electrically skilled persons

6.1 Fitting and electrical connection

Fitting the device

To ensure good transmission quality, keep a sufficient distance from any possible sources of interference, e.g. metallic surfaces, microwave ovens, hi-fi and TV systems, ballasts or transformers.

ℹ️   Perform commissioning procedures before installation (see chapter Commissioning).

■   Change the battery (see chapter Changing the battery).

■   Screw or glue the base plate (1) to an even surface. The **TOP/OBEN** label has to be at the top.

■   Attach design-frame (3) to the base plate.

■   Screw wall transmitter module (4) to base plate.

ℹ️   Screwing the screws too tightly could impair functions of the wall transmitter.

■   Snap covers (6) on (Figure 1).

Information on gluing mounting

To be able to fasten the push-button sensor safely, the substrate must be flat and free of dust and grease.

■   Remove the rear, unpunched film of the enclosed adhesive pad.

■   Align the adhesive pad, stick it to the surface and smooth it out. Remove air bubbles.

■   Remove the two inner segments of the front film.

■   Align the base plate to the external punching and stick it on.

ℹ️   In the case of multiple combinations, the abutting sides of the adhesive pads must be cut along the external punching using a ruler and a cutter (Figure 3).
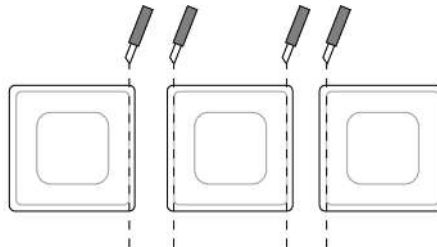

Figure 3: Cutting the adhesive pads for multiple combinations

ℹ️   If necessary, after mounting the wall transmitter in the CD program, carefully remove the excess adhesive film in the corners.

6.2 Commissioning

Inserting the battery

ℹ️   Obey the battery safety instructions.

The battery holder is located on the rear side.

■   Carefully remove buttons (6) from the pushbutton sensor (Figure 1).

■   Unscrew push-button sensor from the base plate (1).

ℹ️   Keep contacts of batteries and device free of grease.

■   Apply battery to the positive contact of the battery holder. Observe polarity: the positive pole of the battery must be at the top.

■   Press gently on battery to snap it in.

■   Mount push-button sensor onto the base plate and snap covers on.

The push-button sensor is ready for operation.

Loading the physical address and application software

Project design and commissioning with ETS5 or more recent.

The device is connected and ready for operation.

The buttons are not mounted yet.

[i] If the device does not contain any application software, or contains the wrong application software, then the acknowledgement/transmission LED flashes slowly for approx. 3 seconds.
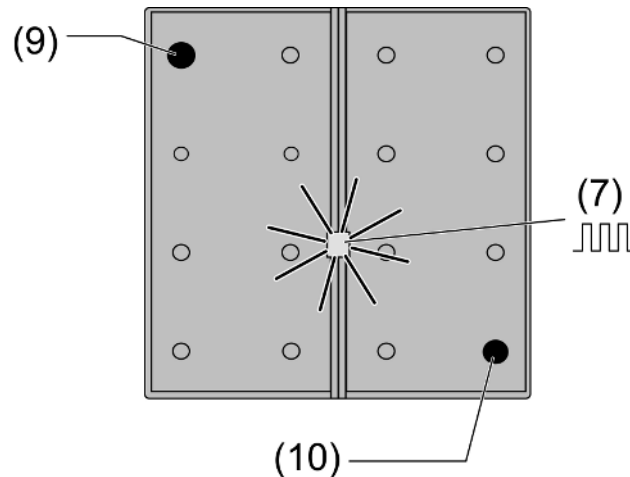

Figure 4: Activating programming mode

- Activate programming mode: Press and hold push-button at the upper left (9). Then press push-button at the lower right (10).
  The acknowledgement/transmission LED (7) flashes rapidly.

- Load the physical address and domain address into the device.
  The acknowledgement/transmission LED (7) returns to its previous state – off, on, or flashing slowly.

- Write the physical address and domain address on the device label.

- Load the application software into the device.

[i] Before updating the system software or before a later correction of the programming, replace a battery with a new, unused battery.

Installing the buttons

The buttons are available as a complete set of buttons. Individual buttons or the complete set of buttons can be replaced using buttons with icons.

[i] The mounting spider is not required to mount the buttons.

The physical address and domain address are loaded into the device.

- Place the buttons on the device in the correct orientation and snap in with a short push. Note the **TOP/Oben** marking.

7   Disposal of batteries

Remove empty batteries immediately and dispose of in an environmentally friendly manner. Do not throw batteries into household waste. Consult your local authorities about environmentally friendly disposal. According to statutory provisions, the end consumer is obligated to return used batteries.

8 Technical data

KNX medium	RF1.R
Commissioning mode	S-mode
Rated voltage	DC 3 V
Battery type	1×Lithium CR 2450N
Ambient temperature	-5 ... +45 °C
Degree of protection	IP20
Protection class	III
Radio frequency	868.0 ... 868.6 MHz
Transmission capacity	max. 20 mW
Transmitting range in free field	typ. 100 m
Receiver category	2

9 Troubleshooting

After a button actuation, the acknowledgement/transmission LED (7) flashes slowly for 3 seconds.

Cause: Battery in the push-button sensor is almost empty.

Changing the battery (see chapter Commissioning – Inserting the battery).

Receiver does not respond, acknowledgement/transmission LED flashes rapidly for 3 seconds.

Cause: The push-button sensor could not send the telegram, e.g. due to a missing group address.

Correct the programming.

Receiver does not react, actuator feedback is not displayed.

Cause 1: Radio range exceeded. Structural obstacles reduce the range.

Use of the media coupler as a radio repeater.

Cause 2: Receiver or media coupler is not ready for operation.

Check the receiver, mains voltage or media coupler.

Cause 3: There are radio faults, e.g. through outside radio.

Eliminate radio interference.

10 Accessories

Cover kit 1-gang	Art. no. ..401 TSA..
Cover kit 2-gang	Art. no. ..402 TSA..
Cover kit 3-gang	Art. no. ..403 TSA..
Cover kit 4-gang	Art. no. ..404 TSA..
KNX RF radio converter	Art. no. MK100RF
KNX RF radio USB stick	Art. no. USB2130RF

11 Conformity

Hereby Albrecht Jung GmbH & Co. KG declares that the radio system type
Art.-no. 4071RFTSM / 4072RFTSM / 4073RFTSM / 4074RFTSM
corresponds to the directive 2014/53/EU. You can find the full article number on the device. The complete text of the EU Declaration of Conformity is available under the Internet address: www.jung.de/ce

12 Warranty

The warranty is provided in accordance with statutory requirements via the specialist trade.

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