

EnOcean radio wall-transmitter, 1gang/2gang

Safety instructions

Electrical equipment must only be installed and assembled by a qualified electrician in accordance with the relevant installation standards, regulations, directives and safety and accident prevention directives of the country.

Failure to comply with these instructions may result in damage to the device, fire or other hazards.

The radio transmission is not suitable for safety or alarm applications.

These instructions are an integral part of the product and must be retained by the end user.

Design and layout of the device

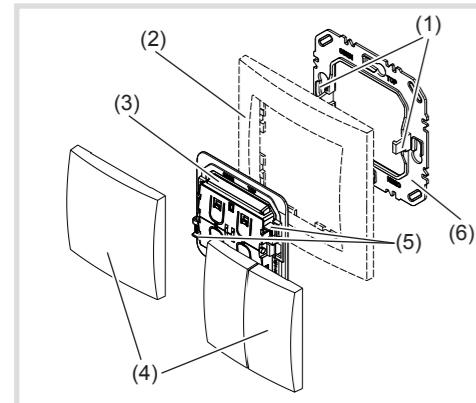


Figure 1: Design and layout of the device

- (1) Locking spigot
- (2) Frame (not in scope of delivery)
- (3) EnOcean radio module
- (4) Rocker, rocker 2gang
- (5) Locking pins
- (6) Supporting plate

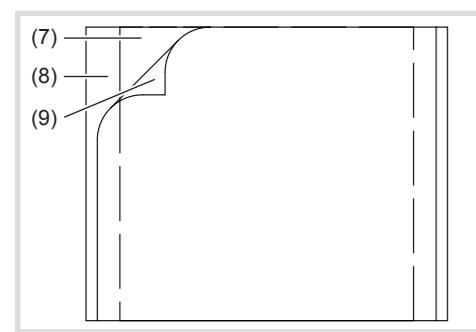


Figure 2: Adhesive film

- (7) Adhesive film
- (8) Backing film
- (9) Protective film

Function

System information

EnOcean technology works without batteries. It requires the power it needs to transmit a radio signal from the conversion of the mechanical movement when the button is pressed.

Due to the legal requirements, the transmission power, reception characteristics and antenna may not be changed.

The devices may be operated in all EU and EFTA states.

The Declaration of Conformity can be taken from our Internet site.

The radio range between the transmitter and receiver is dependent on various factors.

The range of the system can be optimised by selecting the best possible installation site, taking construction features into account (Figure 3).

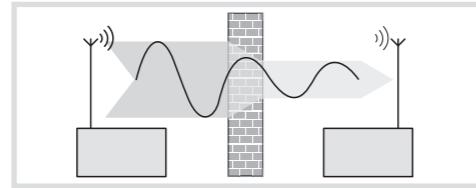


Figure 3: Reduction of range through construction obstacles

Material	Penetration
Wood, plaster, plasterboard	approx. 90 %
Brick, press board	approx. 70 %
Reinforced concrete	approx. 30 %
Metal, metal grid	approx. 10 %
Rain, snow	approx. 1 – 40 %

Table 1: Material penetration

Correct use

- Radio transmitter for the transmission of, for example, switching, dimming, blind or scene commands to the radio receiver of the EnOcean radio system.
- Alternatively, operation via the KNX EnOcean Gateway and connected KNX actuators/outputs.
- Radio application in accordance with ISO/IEC 14543-3-10 with particularly low energy consumption.
- Mounting on wall box in accordance with DIN 49073 or on smooth, flat surfaces with screws or adhesive film.
- Only suitable for use in indoor areas, no drip or spray water.

Product characteristics

- Battery-less and maintenance-free device without external power supply.
- Transmission power is obtained from mechanical energy when the button is pressed.
- The number of radio channels is dependent on the rocker used.
- The radio signal is transmitted when a button is pressed and released.

Operation

Operating concept

The operation of the top or bottom push-button operation area is validated differently for each button.

Operation is dependent on the taught-in radio components and the saved configuration.

If single-operation is configured, commands, such as switching ON/OFF, dimming BRIGHTER/DARKER of lighting, or moving a blind UP/DOWN, are executed alternately by repeated actuation of the same push-button operation area.

With two-surface operation, the top and bottom push-button operation area is used as a function pair. The radio module is preconfigured in such a way that, for example, the upper push-button operation area is used to switch OFF, dim DARKER

or move a blind UP and the bottom area for ON, BRIGHTER or DOWN (Table 2).

Operation of the button	Functions	
	Switching/dimming of lighting	Control blind
Top:	Switch OFF	Slat adjustment UP
	Call up light scenes DARKER dimming Save light scene	Move blind UP
Bottom:	Switch ON	Slat adjustment DOWN
	Call up light scenes BRIGHTER dimming Save light scene	Move blind DOWN

Table 2: Example of two-surface operation

Info The functions are dependent on the receiver. Refer to the operating instructions of the actuator/output for additional functions, such as the operation of a stairway light or fan control.

Information for electricians

Installation

Selecting installation location

A minimum distance between the transmitter and corresponding receiver of about 1 m must be maintained.

A minimum distance to electronic devices which emit high frequency signals such as computers, electronic transformers or microwave devices of approx. 0.5 m must be maintained.

Mounting on or close to metal surfaces may cause impairment of the function.

Screwing on the supporting plate

- Screw the supporting plate (6) onto a wall box in the right position and mount them directly on the wall using the supplied screw/anchor set. Ensure that the label "TOP/OBEN" is at the top.

Sticking on the supporting plate

The radio wall transmitters can be mounted on smooth, flat surfaces, such as on mobile glass office walls.

The mounting surface is clean, free of grease and offers sufficient support.

- Remove the surplus backing film (8).
- Align the adhesive film (7) and stick onto the mounting surface. In so doing, press the adhesive film on firmly – if necessary, with a suitable aid.
- Remove the protective foil (9).
- Align the supporting plate (6) and stick onto the adhesive film. Align the label "TOP/OBEN" to the top. The frame and radio module do not need to be stuck on.

Mounting the radio module on the supporting plate

Cause 2: When a 1gang rocker is used, the rocker is not located in the same alignment on the radio module as it was during the teach-in process.

Remove the rocker, turn it through 180° and lock it back onto the radio module. Perform a functional test.

- Place the frame (2) onto the supporting plate along the locking spigots (1).
- Place the EnOcean radio module (3) onto the supporting plate over the locking spigots. In so doing, observe the labelling in the centre of the module – 0 must be at the top (10) and I at the bottom (11).
- Push the yellow locking pins (5) on the left and right of the radio module upwards/downwards under the locking spigots (1) up to the stop (Figure 4).
- Place the rocker (4) onto the radio module in the right position and push it on until it engages.

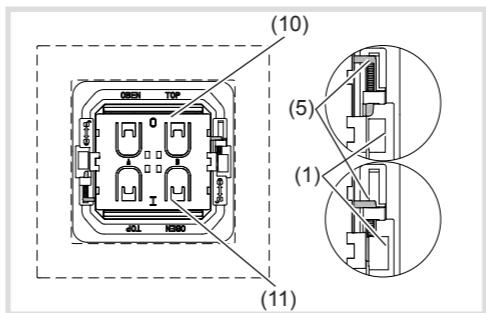


Figure 4: Unlocked and locked radio module

Dismantling the device

- Push the rocker (4) down. On the opposite side, reach under the rocker and pull it off.
- Using a screwdriver, push the yellow locking pins (5) on the left and right of the radio module (3) downwards/upwards.
- The radio module is unlocked.
- Remove the radio module and the frame. Unscrew the supporting plate or release from the adhesive film (7).

Start-up

Info The switching, toggling, dimming and blind functions and special functions are dependent on the taught-in EnOcean radio receiver.

Teaching in the transmitter in the radio receiver

For the receiver to understand the radio telegram of the transmitter, the receiver must "learn" this radio telegram. One channel of the transmitter can be taught into any number of receivers. The teach-in operation only leads to an assignment in the receiver (see operating instructions of the EnOcean radio receiver).

Appendix

Technical data

Support frequency:	868 MHz (ASK)
Transmitter range:	
– Free field:	up to 300 m
– In buildings:	approx. 30 m
Storage temperature:	-40 ... 85 °C
Ambient temperature:	-25 ... +65 °C
Humidity:	0 ... 95 % (no condensation)

Troubleshooting

Receiver does not react or only partially reacts

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

Use a radio repeater to increase the range.