Radio switch actuator built-in
Order-No. : 125

Operation- and
Assembly Instructions

1 Safety instructions

Electrical equipment may only be installed and fitted by electrically skilled persons.

Failure to observe the instructions may cause damage to the device and result in fire and other hazards.

Danger of electric shock. Always disconnect device before working on it. At the same time, take into account all circuit breakers that supply dangerous voltage to the device.

Danger of electric shock. Device is not suitable for disconnection from supply voltage. The load is not electrically isolated from the mains even when the device is switched off.

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.

Do not shorten, extend or strip the antenna. Device can be damaged.

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

2 Device components

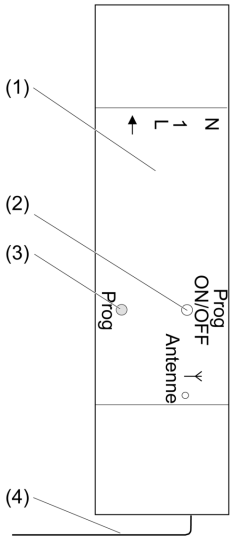

Figure 1

(1) Switch actuator
(2) Programming button
(3) LED
(4) Antenna

3 Function

System information

By statute, the transmitting power, the reception characteristics and the antenna cannot be changed.

The device may be operated in all EU and EFTA countries.

The declaration of conformity can be viewed on our website.

The range of a radio system from the transmitter to the receiver depends on various circumstances.

The range of the system can be optimised by selecting the optimal installation location, taking into account the structural circumstances.

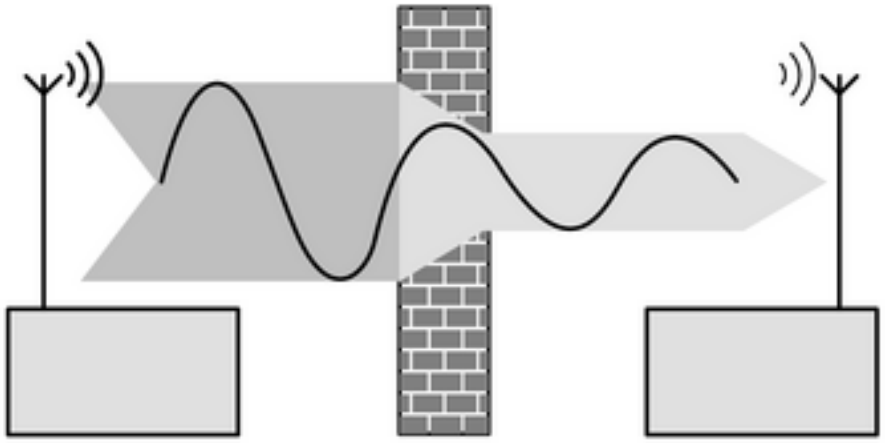

Figure 2: Reduced range due to structural obstacles

Example of penetration of various materials:

Material	Penetration
Wood, Plaster, Plasterboard	approx. 90%
Brick, Chipboard	approx. 70%
Reinforced concrete	approx. 30%
Metal, Metal grid	approx. 10%
Rain, Snow	approx. 1-40%

Intended use

- Radio-controlled switching of incandescent lamps, fluorescent lamps, HV halogen lamps and Tronic or inductive transformers with halogen lamps
- Operation with suitable radio transmitters or with installation buttons as an extension
- Suitable for mixed operation up to the specified output (Technical data)
- Installation in false ceilings or surface mounting

i It is not possible to teach a combination of presence detector and motion detector.

Product characteristics of the switch actuator

- Connection of installation buttons as extensions possible
- Light scene operation possible
- 2-point light control in combination with a radio presence detector possible
- Run-on time of approx. 1 minute in connection with radio motion detectors

4 Operation

Operation with radio transmitter

A radio transmitter has to be taught in order to be able to operate the actuator.

i Observe the instructions for the radio transmitter.

Switching light with installation button

- Press installation button briefly.
  The light is switched on or off.

5 Information for electrically skilled persons

5.1 Fitting and electrical connection

DANGER!
Electrical shock when live parts are touched.
Electrical shocks can be fatal.
Before carrying out work on the device or load, disengage all the corresponding circuit breakers. Cover up live parts in the working environment.

Connecting and mounting the device

Maintain a distance of at least 0.5 m from metal surfaces and electrical devices, e.g. microwave ovens, hi-fi and TV systems, electronic ballasts or transformers.

Maintain a distance of at least 1 m between transmitter and receiver in order to prevent overmodulation of the receiver.

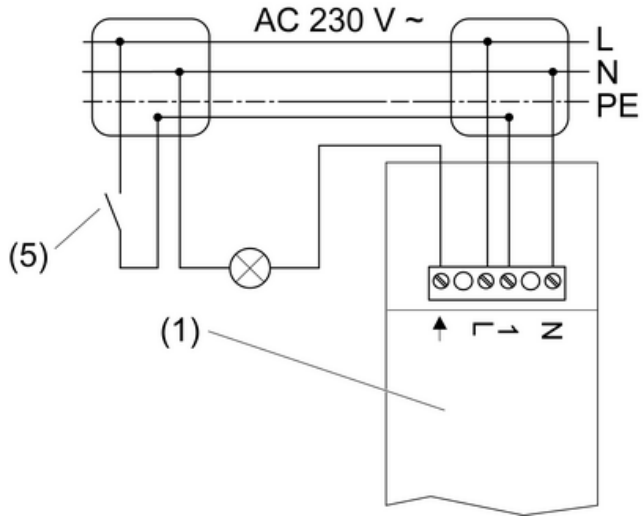

Figure 3

- Connect the switch actuator (1) and if necessary the installation button (5) in accordance with the connection diagram (Figure 3).

i Lay the antenna stretched out freely if possible.

- Fitting the switch actuator.
- Switch on mains voltage.

i The load can be switched on or off by pressing the programming button briefly (for about 1 second).

5.2 Commissioning

i Observe the instructions for the radio transmitter.

DANGER!
Electrical shock when live parts are touched.
Electrical shocks can be fatal.
Before working on the device, cover up live parts in the working environment.

Teaching a radio transmitter

ⓘ If all memory slots are occupied, a radio transmitter which has already been taught must first be deleted. To do this, delete all taught channels and light scenes of the radio transmitter individually.

The distance between the receiver and the radio transmitter is from 0.5 m to 5 m.

Load is switched off.

- Press the programming button of the switch actuator or the installation button for approx. 4 seconds.

ⓘ When the installation button is pressed the load is switched on for a duration of approx. 4 seconds.

The LED blinks. The device is in programming mode for approx. 1 minute.

- Trigger teach telegram on radio transmitter (see instructions for radio transmitter).

LED lights up. The radio transmitter has been taught.

- Press the programming button of the actuator or the installation button briefly.

Light switches on. The actuator is in operating mode.

ⓘ The programming mode is exited automatically after about 1 minute.

ⓘ Teach light scene buttons separately.

ⓘ When a radio transmitter is taught, All On and All Off buttons that are present are automatically also taught.

Deleting radio transmitters individually

- Teach the radio transmitter to be deleted again (see Teaching a radio transmitter).

LED blinks quickly. The radio transmitter has been deleted.

ⓘ If several channels or light scenes of a radio transmitter have been taught, they all must be deleted individually.

6 Appendix

6.1 Technical data

Rated voltage	AC 230 V ~
Mains frequency	50 / 60 Hz
Ambient temperature	-20 ... +55 °C
Circuit breaker	max. 10 A

Connected load

ⓘ Power specifications including transformer power dissipation.

ⓘ Operate inductive transformers with at least 85% nominal load.

Incandescent lamps	2300 W
HV halogen lamps	2300 W
Inductive transformers	1000 VA
Tronic transformers	1500 W
Fluorescent lamps, uncompensated	1200 VA
Fluorescent lamps, parallel compensated	920 VA
Fluorescent lamps, duo circuit	2300 VA
Switching current	10 A
Contact type	µ contact
Dimensions L×W×H	175×42×18 mm
Carrier frequency	433.42 MHz (ASK)
Teachable radio transmitter	max. 30

6.2 Troubleshooting

Device does not respond, or only sometimes.

Cause 1: battery in the radio transmitter is empty.

Change the battery in the radio transmitter.

Cause 2: Radio range exceeded. Structural obstacles reduce the range.

Check the installation situation.

Check routing of antenna. Laying the antenna stretched out increases the range.

Using a radio repeater.

6.3 Warranty

We reserve the right to make technical and formal changes to the product in the interest of technical progress.

Our products are under guarantee within the scope of the statutory provisions.

If you have a warranty claim, please contact the point of sale or ship the device postage free with a description of the fault to the appropriate regional representative.

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