

**Radio switch actuator RMD**  
Order-No. : 9450 01 00

**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 before carrying out work on the device or load. At the same time, take into account all circuit breakers that supply dangerous voltage to the device or load.**

**Danger of electric shock. Device is not suitable for disconnection from supply voltage.**

**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 Device components**

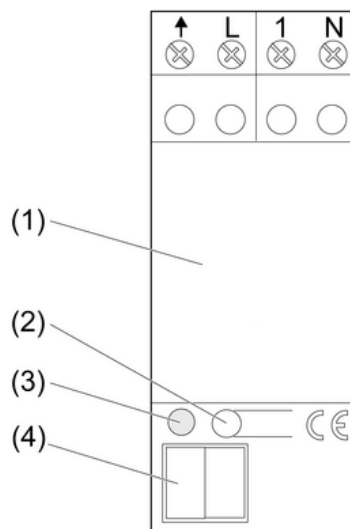


Figure 1

- (1) Switch actuator
- (2) Programming button
- (3) LED
- (4) Connection terminal for bus cable

**3 Function**

**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 in combination with RMD radio receivers or via extension units

- Suitable for mixed operation up to the specified output (Technical data)
- Installation in distribution boxes on DIN rail according to DIN EN 60715
- i** It is not possible to teach a combination of presence detector and motion detector.

#### Product characteristics

- Connection of installation buttons as extensions possible
- Light scene operation possible
- 2-point light control in combination with a radio presence detector
- When a taught radio motion detector telegram is received the switch actuator switches on for a run-on time of approx. 1 minute

## 4 Operation

### Operation with radio transmitter

A radio transmitter has to be taught in order to be able to operate the device with a radio transmitter.

- i** Observe the instructions for the radio transmitter.

### Switching a light with an installation button

An installation button is connected to input 1.

- Press the installation button.  
The load is switched on or off.

## 5 Information for qualified electricians

### 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 switch actuator

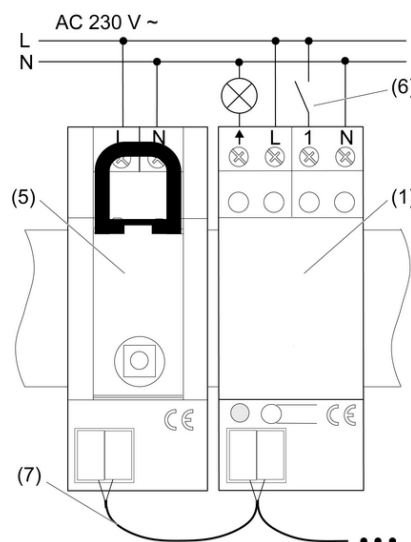


Figure 2

- i** The total length of the bus cables (7) between the devices may not exceed 3 m.

- i** The polarity of the bus cables (7) must not be reversed.
- i** For the bus cable, use a shielded cable with twisted conductors and a conductor diameter of 0.8 mm that is designed for a test voltage of 2.5 kV AC. Examples of permissible bus cables are YCM 2×2×0.8 or J-Y(St)Y 2×2×0.8.
  - Snap switch actuator (1) onto DIN rail.
  - Connect switch actuator according to connection diagram (Figure 2).
  - Connect switch actuator to the radio receiver RMD (5) using a bus cable.
  - If necessary connect installation button (6) according to connection diagram (Figure 2).
- i** Lit installation buttons may only be connected if they have a separate N terminal.
  - Switch on mains voltage.
- i** The load can be switched on or off by pressing the programming button briefly (for about 1 s).

## 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

- i** 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 for 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 briefly.  
The load switches on. The device is in operating mode.
- i** The programming mode is exited automatically after about 1 minute.
- i** Teach light scene buttons separately.
- i** 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.
- i** 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
Switching current	
Ohmic	10 A
Switch-on current 20 ms	max. 120 A

radio bus

Radio switch actuator RMD

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Minimum switching current AC	100 mA
Ambient temperature	0 ... +45 °C
Storage/transport temperature	-25 ... +70 °C
Connected 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
Contact type	µ contact
Connection	
Single stranded	1.5 ... 4 mm <sup>2</sup>
finely stranded without conductor sleeve	0.75 ... 4 mm <sup>2</sup>
finely stranded with conductor sleeve	0.5 ... 2.5 mm <sup>2</sup>
Fitting width	36 mm / 2 modules
Teachable radio transmitter	max. 30

## 6.2 Troubleshooting

### Device does not respond, or only sometimes.

Cause 1: battery in the transmitter is empty.

Change the battery.

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

Check the installation situation.

Using a radio repeater.

## 6.3 Accessories

Radio receiver RMD

Order-No. 9405 01 00

## 6.4 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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