

Radio switch actuator for rail mounting

Art.-No.: FA 10 REG

Radio push-button actuator for rail mounting

Art.-No.: FA 10 REGT

Operating 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.

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

2 Device components

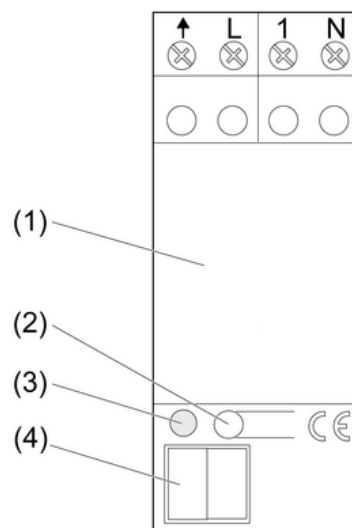


Figure 1

- (1) Switch/push-button 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 of the switch actuator

- Light scene operation with up to 5 light scenes possible
- Light control in combination with a radio presence detector is possible (see instructions for radio presence detector)
- In combination with a radio motion detector the control unit switches on for a delay time of approx. 1 minute when a radio motion detector telegram is received (see instructions for radio motion detector)

Product characteristics of the push-button actuator

- The push-button actuator closes its relay contact as long as it receives taught radio telegrams for switch-on, e.g. from a channel button of a hand-held transmitter or wall transmitter. If the corresponding channel button is released within the maximum transmission time, the push-button actuator opens the relay contact again.
- If the channel button is pressed for longer than the maximum transmission length of the transmitter, or if the transmission is faulty, then the relay contact is opened after approx. 16 seconds.
- If the taught channel button is pressed briefly, the relay contact closes for approx. 0.3 seconds.

 The following functions are not supported by a push-button actuator: All On, All Off, light scenes and light control.

4 Operation

Operation with radio transmitter

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

 Observe the instructions for the radio transmitter.

Operation with installation button


Switching light on or off

Switch actuator:

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

Push-button actuator:

- Press the push-button.
The light is switched on. The light is switched off again as soon as the push-button is no longer pressed.

 If the push-button is pressed for longer than 4 seconds, the push-button actuator switches to programming mode.

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 fitting the device

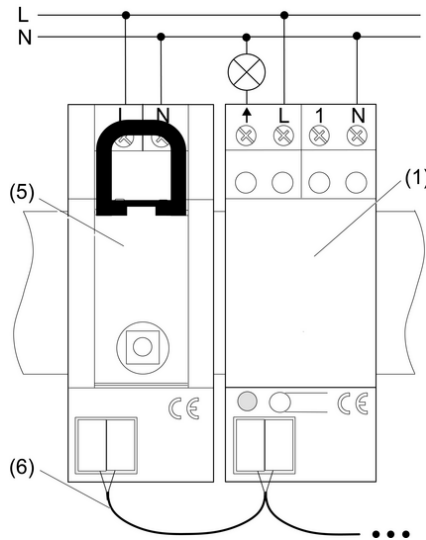


Figure 2: Connection to RMD radio receiver

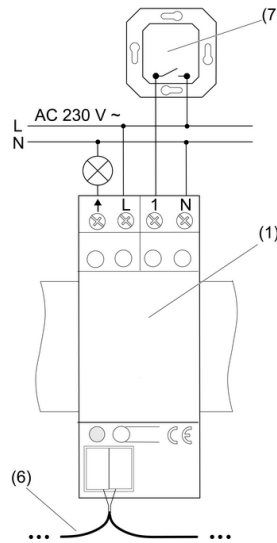


Figure 3: Connecting an installation button

- i** The total length of the bus cables (6) between the devices may not exceed 3 m.
- i** The polarity of the bus cables (6) 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 the switch/push-button actuator (1) onto the DIN rail.
- Connect the switch/push-button actuator and if necessary the installation button (7) in accordance with the corresponding connection diagram.
- i** Lit installation buttons may only be connected if they have a N terminal.
- Connect the switch/push-button actuator to the RMD radio receiver (5) using a bus cable via the connection terminal.
- Switch on mains voltage.

- i** Switch actuator: The light can be switched on or off by pressing the programming button briefly (for about 1 second).
- i** Push-button actuator: By pressing the programming button, the light can be switched on for as long as the button is pressed.

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.

Teach-in 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.

The light is switched off.

- Press the programming button of the switch/push-button actuator or the installation button for approx. 4 seconds.
- i** When the installation button is pressed the load is switched on for a duration of approx. 4 seconds.
The LED flashes. The switch/push-button actuator is in programming mode for approx. 1 minute.
- Trigger teach telegram on radio transmitter, see instructions for radio transmitter.
The 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.
- i** Programming mode is exited automatically after about 1 minute.
- i** Only switch actuator: Teach light scene push-buttons separately.
- i** Only switch actuator: 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
Minimum switching current AC	100 mA
Ambient temperature	0 ... +45 °C
Storage/transport temperature	-25 ... +70 °C
Connected load	
Incandescent lamps	2300 W

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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 ²
finely stranded without conductor sleeve	0.75 ... 4 mm ²
finely stranded with conductor sleeve	0.5 ... 2.5 mm ²
Fitting width	36 mm / 2 modules
Teachable radio transmitter	max. 30

6.2 Troubleshooting

Device does not respond, or only sometimes.

Battery in the transmitter is empty.

Change the battery.

Radio range exceeded. Structural conditions reduce the range.

Check the installation situation.

Connect external antenna to the RMD radio receiver.

Using a radio repeater.

6.3 Accessories

Master receiver for rail mounting

Art.-No.: FK 100 REG

6.4 Warranty

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

We provide a warranty as provided for by law.

Please send the unit postage-free with a description of the defect to our central customer service office:

ALBRECHT JUNG GMBH & CO. KG

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Radio Management

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