

Radio 1 - 10 V control unit RMD
Order-No. : 9465 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.

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

2 Device components

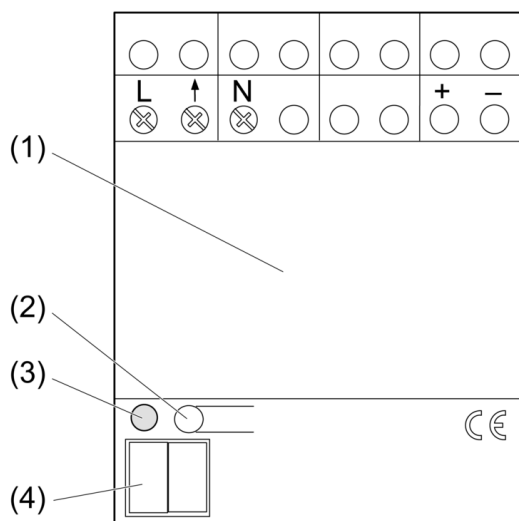


Figure 1

- (1) Control unit
- (2) Programming button
- (3) Programming LED
- (4) Connection terminal for bus cable

3 Function

Intended use

- Radio-controlled switching and brightness setting for lamp operating devices with 1-10 V interface
- Operation with suitable radio transmitters in combination with a radio receiver RMD
- 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

- Switch-on brightness can be saved permanently

- Light scene operation possible
- Constant light regulation possible in connection with a radio presence detector
- Run-on time of approx. 1 minute in connection with radio motion detectors.

4 Operation

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

-  Observe the instructions for the radio transmitter.

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.

Mounting and connecting the device

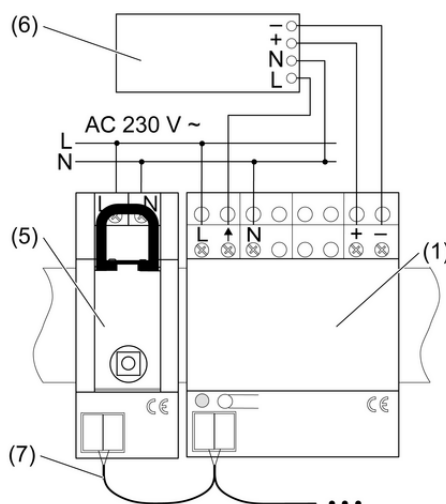







Figure 2

- Control unit (1) mounted on DIN rail.
- Connect control unit and lamp operating device (6) in accordance with connection diagram (Figure 2).
- Connect control unit via the connecting terminal (4) with a bus cable (7) with the RMD radio receiver (5) and/or other radio actuators.

-  The total length of the bus cables between the RMD devices may not exceed 3 m.
-  The polarity of the bus cables must not be reversed.
-  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 AC 2,5 kV. Examples of permissible bus cables are YCM 2×2×0.8 or J-Y(St)Y 2×2×0.8.
-  Lay the control cable, ensuring that it is of the appropriate type and cross-section for the VDE specifications for 250 V cables, control voltage has basic insulation.
-  The maximum number of lamp operating devices that can be controlled by the device is a function of the maximum connected load. The maximum control current must not be exceeded (see chapter 6.1. Technical data).

- i** Only use lamp operating devices and lamps that are of the same type, the same power level, and from the same manufacturer. Otherwise there may be differences in brightness between the individual lamps.
 - 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

- 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.

Save switch-on brightness

A set brightness value can be saved in the device as the switch-on brightness.

- i** In the state as supplied the switch-on brightness is set to maximum.
 - Set light to the required brightness.
 - Press programming button for longer than 4 seconds.
Switch-on brightness is saved.
For confirmation the lighting switches off briefly and then on again.
- i** The saved switch-on brightness is retained in the event of a power failure.

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.

Deleting all radio transmitters

Load is switched off.

- Press the programming button for approx. 20 seconds.
After approx. 4 seconds the LED blinks.

After approx. 20 seconds the LED flashes.

- During the next 6 seconds, release the programming button and press it again for approx. 1 second.

LED lights up. The radio transmitters will be deleted.

LED blinks quickly. All radio transmitters have been deleted.

6 Appendix

6.1 Technical data

Rated voltage	AC 230 V ~
Mains frequency	50 / 60 Hz
Control voltage	1 ... 10 V
Control current	max. 15 mA
Ambient temperature	0 ... +45 °C
Storage/transport temperature	-25 ... +70 °C
Connected load	
Ohmic load	1800 W
Electronic ballast	Type-dependent
Tronic transformer	Type-dependent
Contact type	µ contact
Circuit breaker	max. 10 A
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	72 mm / 4 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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