

Radio receiver RMD
Order-No. : 9405 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.

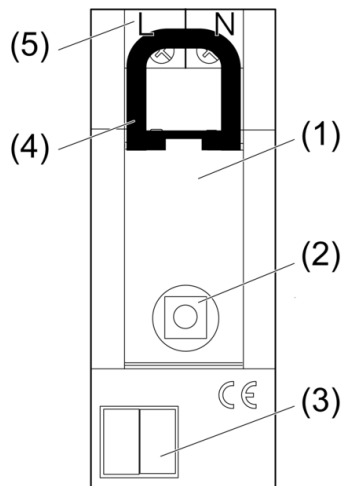
Danger of electric shock. Always disconnect before carrying out work on the device or load. At the same time, take into account all circuit breakers that supply dangerous voltage to the device or load.

To ensure adequate contact protection, operate device only with the slide in use.

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



picture 1

- (1) Radio receiver
- (2) SMB socket for optional connection of an external antenna
- (3) Connection terminal for bus cable
- (4) Slide for cable fixing and as contact protection
- (5) Screw terminals for mains connection

3 Function

System information

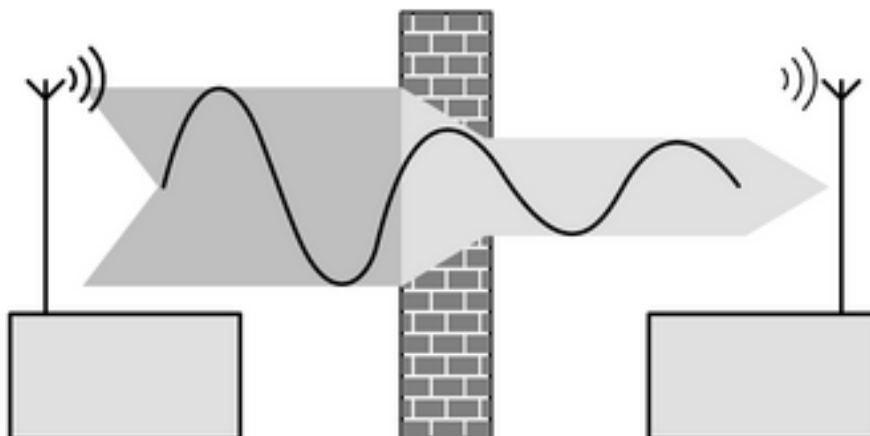
By statute, the reception characteristics and the antenna cannot be changed.

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.



picture 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

- Reception of radio telegrams and conversion into wire-bound data
- Activation of RMD radio actuators, e.g. switch actuators, dim actuators or shutter actuators
- Installation in distribution boxes on DIN rail according to DIN EN 60715

Product characteristics

- Up to 30 RMD radio actuators can be connected
- Integrated antenna
- External antenna can additionally be connected in case of disadvantageous installation conditions, e.g. metallic distribution boxes

4 Information for qualified electricians

4.1 Fitting and electrical connection



DANGER!

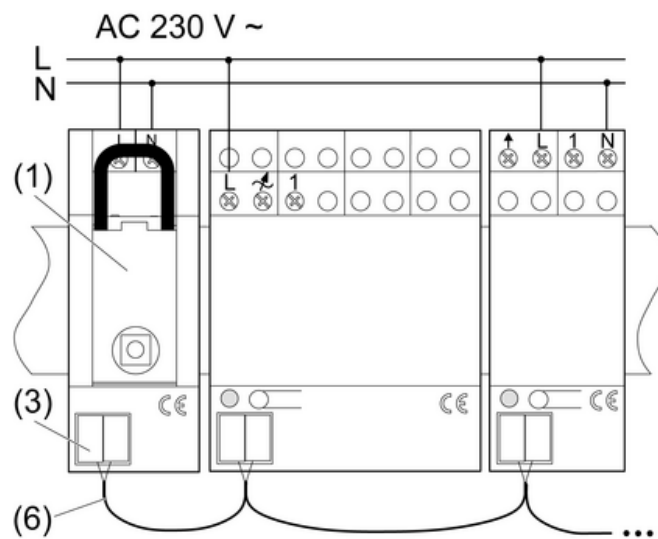
Electrical shock when live parts are touched.

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

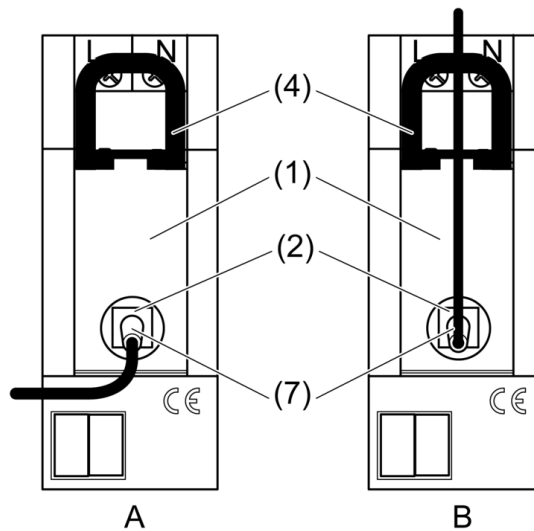
Maintain a distance of at least 1 m between transmitter and receiver in order to prevent overmodulation of the receiver.



picture 3

- Mount radio receiver (1) on DIN rail.
- Connect radio receiver according to connection diagram (picture 3).
- Connect radio receiver with the RMD radio actuators via the connection socket (3) using a bus cable (6).
- Connect option external antenna (see Connecting an external antenna).
- i** The total length of the bus cables between the RMD devices may not exceed 3 m.
- i** The polarity of the bus cables 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.
- Switch on mains voltage.

Connecting an external antenna



picture 4

A Routing outside the distributor

B Routing inside the distributor

- Insert the antenna connector (7) into the SMB socket (2) of the radio receiver (1) (picture 4).
- Route antenna out of the distributor providing reliable isolation.

To route the cable for the external antenna in the distributor, proceed as follows:

- Unlock the black slide (4) by pulling up on the end of the bow and pull out slide (picture 4).
- Insert the antenna connector (7) into the SMB socket (2).
- Route antenna out of the distributor providing reliable isolation.
- Re-insert black slide until it engages noticeably.

i The slide fixes the cable in place and ensures that the maximum installation height in the distributor is maintained.

5 Appendix

5.1 Technical data

Rated voltage	AC 230 V ~
Mains frequency	50 / 60 Hz
Ambient temperature	0 ... +45 °C
Storage/transport temperature	-25 ... +70 °C
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
carrier frequency	433.42 MHz (ASK)

5.2 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.

radio bus
Radio receiver RMD



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