Radio reception module DRA
Order No. : 1133 00

Operating instructions

1 Safety instructions

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

Serious injuries, fire or property damage possible. Please read and follow manual fully.

Danger of electric shock. Always disconnect before carrying out work on the devise or load. In so doing, take all the circuit breakers into account, which support dangerous voltages to the device and 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

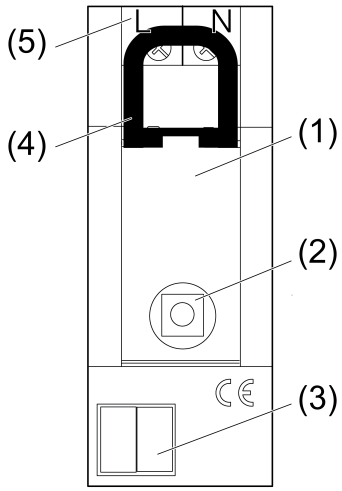

Figure 1

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

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.

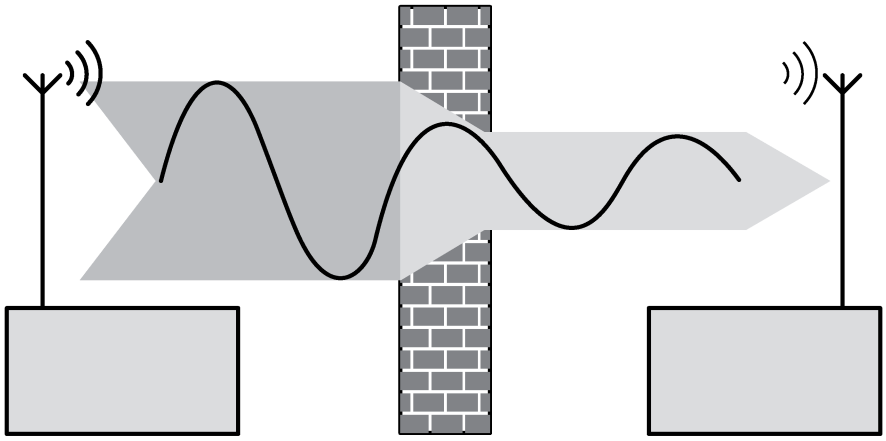

Figure 2: Reduced range due to structural obstacles

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

- 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.

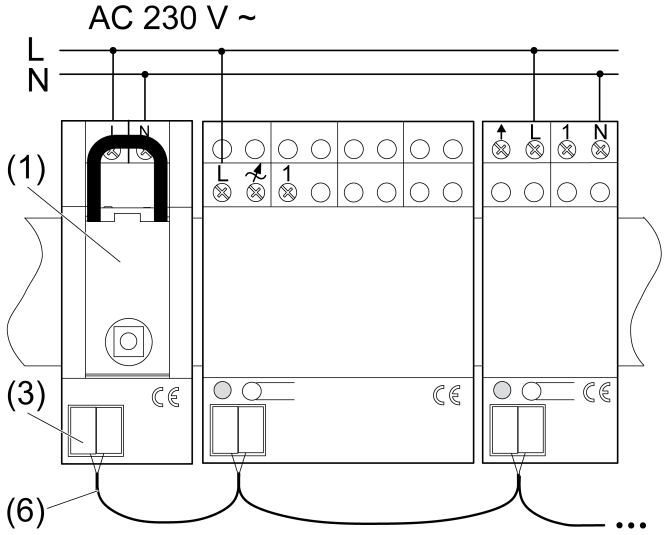

Figure 3

- Mount radio receiver (1) on DIN rail.
- Connect radio receiver according to connection diagram (Figure 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

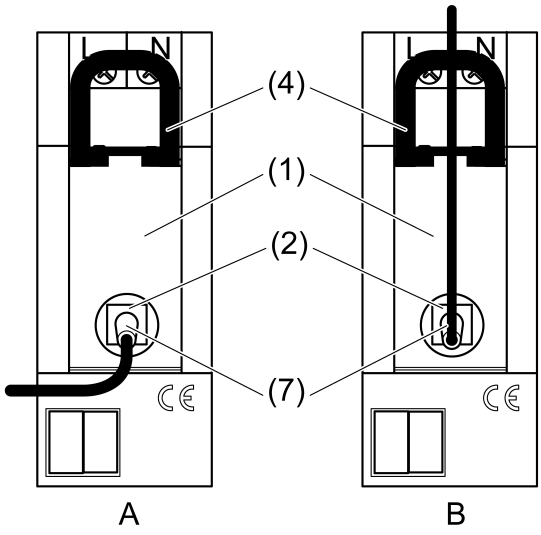

Figure 4

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) (Figure 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 (Figure 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 mm²
Finely stranded without conductor sleeve	0.75 ... 4 mm²
Finely stranded with conductor sleeve	0.5 ... 2.5 mm²
Fitting width	36 mm / 2 modules
Radio frequency	433.05 MHz ... 434.79 MHz
Receiver category	2

5.2 Conformity

Gira Giersiepen GmbH & Co. KG hereby declares that the radio system type
Order No. 1133 00
corresponds to the directive 2014/53/EU. You can find the full article number on the device. The complete text of the EU Declaration of Conformity is available under the Internet address:
www.gira.de/konformitaet

5.3 Warranty

The warranty follows about the specialty store in between the legal framework as provided for by law

Please submit or send faulty devices postage paid together with an error description to your responsible salesperson (specialist trade/installation company/electrical specialist trade). They will forward the devices to the Gira Service Center.

Gira
Giersiepen GmbH & Co. KG
Elektro-Installations-
Systeme

Industriegebiet Mermbach
Dahlienstraße
42477 Radevormwald

Postfach 12 20
42461 Radevormwald

Deutschland

Tel +49(0)21 95 - 602-0
Fax +49(0)21 95 - 602-191

www.gira.de
info@gira.de