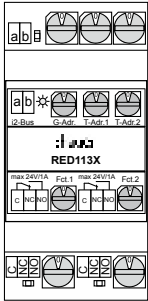


RED113X
Switching relay 2gang RMD i2
audio



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Safety instructions

Electrical equipment may only be installed and assembled by qualified electricians.

Failure to comply with these instructions may result in damage to the device, fire or other hazards.

When installing and laying cables, always comply with the applicable regulations and standards for SELV electrical circuits.

These instructions are an integral component of the product and must be retained by the end user.

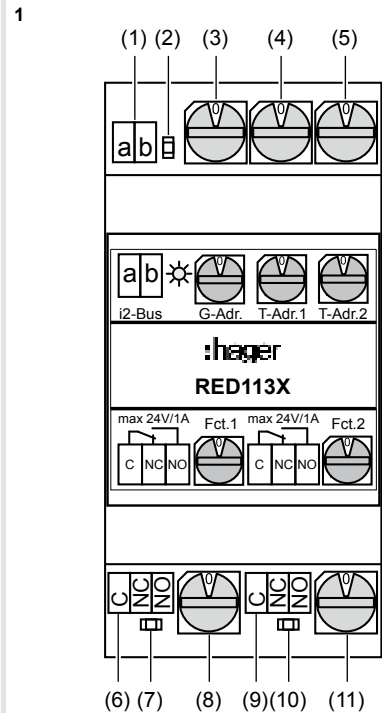
Function

The switching relay 2gang RMD i2Audio allows intercom device related switching functions. The addressing can be performed for one or two intercom devices or for a group (max. 16) of intercom devices. The device has two potential-free switching contacts that can be used for different switching functions.



CAUTION!

The switching relay is an i2Audio device and can only be operated on the 2-wire bus with an audio decoupler.



- (1) Terminal a/b BUS connection
- (2) Power LED: lights up as soon as the bus is connected
- (3) G-Adr: rotary switch (black) for setting the group address
- (4) T-Adr1: rotary switch (blue) for setting the first intercom device address
- (5) T-Adr2: rotary switch (blue) for setting the second intercom device address
- (6) Switching contact 1: Connection of potential-free switching contact 1 (max. 24V/1A)
C = supply terminal
NC = NC contact
NO = NO contact
- (7) Status LED 1: LED on = contact 1 active, LED off = contact 1 in standby
- (8) Fct.1: rotary switch (grey) for setting the switching function 1

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- (9) Switching contact 2: Connection of potential-free change-over contact 2 (max. 24V/1A)
C = supply terminal
NC = NC contact
NO = NO contact
- (10) Status LED 2: LED on = contact 2 active, LED off = contact 2 in standby
- (11) Fct.2: rotary switch (grey) for setting the switching function 2

Information for electricians

Installation and electrical connection



DANGER!

Touching live parts in the installation environment can result in an electric shock!

An electric shock can be lethal!

Before working on the device or load, disconnect all associated circuit breakers. Cover all live parts in the area!

When working on systems with a 230 V AC power connection, comply with the safety requirements of DIN VDE 0100.

When installing door communication systems, comply with the general safety regulations for telecommunications systems according to VDE 0800:

- Separate routing of power and door communication cables according to VDE 0800.
- Partitions between power and door communication cables in shared trunkings.
- Use of standard telecommunications' cables, e.g. J-Y (St) Y with 0.8 mm diameter.

Bus cables

- J-Y(ST)Y or A-2Y(L)2Y
Use wrapped wire pair.
Recommendation: white/yellow
- CAT
Use wrapped wire pair.
Recommendation: orange/white



Avoid interference!

The 13-MHz video carrier frequency used for two-wire video door communication systems can cause reciprocal interference with other devices, such as radios, routers and WLAN devices.

- Only use shielded cables corresponding to the qualities recommended in this manual.
- It is essential to comply with the applicable regulations during planning and installation.
- Route cables, wire the devices, and in particular implement shielding and earthing measures as described below.

Connection

- Connect conductor: Insert stripped conductor (solid conductor Ø 0.4–0.8 mm).
- Loosen conductor: Press orange push-button. Remove conductor.

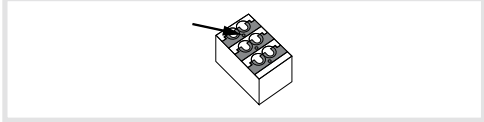


Figure 2: connecting terminals

If interference occurs in telecommunications systems, radio services or other systems during the operation of existing video door communication systems, measures for shielding and earthing the cables and for filtering must be implemented.

- For this purpose, connect all of the drain wires of the cables in a star shape using a terminal.
- Connect all drain wires to the PE rail in the distribution box.

Configuration

A: One intercom device uses both switching functions

- On the black rotary switch G-Adr. (3) the group address of the intercom device is set.
- The rotary switches T-Adr.1 (4) and T-Adr.2 (5) are set identically to the intercom device address.

B: Several intercom devices (max. 16) use both switching functions together

- The intercom devices must have the same group address and sequential intercom device addresses.
- The group address is set on the rotary switch G-Adr., the smallest intercom device address is set on the rotary switch T-Adr.1 and the largest intercom device address is set the on rotary switch T-Adr.2.

C: Two intercom devices use one switching function each

- The intercom devices must have the same group address that is set on the rotary switch G-Adr.
- The largest intercom device address is set on rotary switch T-Adr.1 and the smallest intercom device address is set on the rotary switch T-Adr.2.

Switching functions

Fct. 1/2	Switching function	Time-out (sec.)
0	No switching function	
1	Pressing the door release button during a door call	10
2	Pressing the door release button in standby	10
3	Pressing the door release button during a door call or in standby	10
4	Pressing the light button during a door call	10
5	Pressing the light button in standby	10
6	Pressing the light button during a door call or in standby	10
7	Door call	10
8	Video monitor control	90/180
9	Storey call	10
A	internal call	10
B	Door call + storey call + internal call	10
C	RED113X switching function for relay address 0 (pulse mode without status feedback)	10
D	RED113X switching function for relay address 1 (pulse mode without status feedback)	10

Technical data

Operating voltage via bus	24 V=
Switching contact change-over contact potential-free	max. 24 V/1 A
Degree of protection	IP 20
Relative humidity	0 ... 65% (no condensation)
Operating temperature	-5 ... +45°C
Storage/transport temperature	-20 ... +60°C
Connecting terminals	plug-in terminals
Maximum conductor diameter	0.8 mm
Dimensions W x H x D	48 x 97 x 58 mm
Space units in the distributor:	3 units