Powerline repeater
PL-RPT

Only skilled electricians may install this electrical equipment otherwise there is the risk of fire or electric shock!

Temperature at mounting location:
-20°C up to +50°C.
Storage temperature: -25°C up to +70°C.
Relative humidity:
annual average value <75%.

Powerline repeater. 53x43 mm, 25 mm deep for mounting in 58 mm switch boxes. Standby loss only 0,5 watt.

The repeater supports greater ranges. With cable lengths of > 300 m the repeater is normally located in a distributor between the sensor and the actuator.

The repeater repeats commands from sensors with the same address g, e.

Feedback messages from actuators are not repeated.

Assigning addresses:

Two rotary switches are located on the front to assign addresses:

- **The left-hand rotary switch determines the group address g with 16 alphanumeric digits from A to P.**

- **The right-hand rotary switch determines the element address e with 16 numerical values.**

- Above it is a slide switch which is a **configuration switch with positions 0, 1 and 2.**

  Position 0: Central commands are repeated irrespective of the repeater's e address. With address g, e=0, only central commands are repeated.

  Position 1: With address g, e=0 at the repeater, all commands of group g are repeated.

  Position 2: Unassigned.

Addresses can be changed live or without voltage.

On the left of the rotary switches is a red LED to display all activities.

Next to that is the Reset button and to the right of that is Service Pin (P).

The terminals located above are plug-in terminals for conductor cross-sections of 0.2 mm^2 to 1.5 mm^2.

Start-up:
First installation:

Powerline devices are unconfigured in as-delivered state.

1. Switch off the main fuse.
2. Assign the device addresses (actuators/ sensor inputs) by using the rotary switches and fitting all the devices.
3. Switch on the main fuse. **The LEDs of the unconfigured devices flicker.**
4. Press the pushbutton (switch) of an unconfigured device (actuator/sensor input) 5 times (10 times) within 5 seconds to generate a new domain (home address). After 5 seconds, all the existing devices in the new domain (home address) are integrated and functioning. **The LEDs of the configured devices are off.**

Extending the installation:

1. Switch off the appropriate fuse.
2. Assign the addresses of the new devices (actuators/sensor inputs) by using the rotary switches and fitting all the new devices.
3. Switch on the main fuse. **The LEDs of the unconfigured devices flicker.**
4. Press the pushbutton (switch) of a **previously installed and configured** device 5 times (10 times) within 5 seconds. The actuator/sensor input transfers its domains (home address) to the new devices. **The LEDs of the configured devices are off.**
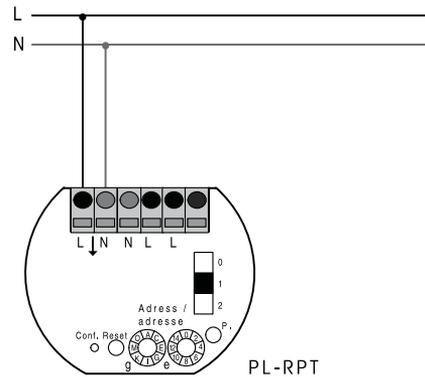
Reset to as-delivered state:

With the mains voltage applied, use a small insulated screwdriver to hold down the **Reset** pushbutton for at least 5 seconds. The LED first lights up and flickers after 5 seconds. The as-delivered state is restored.

Send node ID:

Use a small insulated screwdriver to briefly press Service Pin **P.** The Powerline node ID is sent.

Typical connection

PL-RPT

Must be kept for later use!