

Powerline dimmer actuator with 1 channel   
PL-SAMDR

**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 dimmer actuator with 1 channel.  
53x43 mm, 25 mm deep for mounting in 58 mm switch boxes. Phase control dimmer for loads up to 300W at cos phi = 1 and 150W at cos phi = 0.6. Electronic universal transformers up to 150W. Sensor input 230V. Standby loss only 0,5 watt. To control and dim at the same place.

Overload cut-off with auto recovery after 60 seconds.

Two rotary switches are located on the front for address assignment:

**The left rotary switch defines the group address g with 16 alphabetical values from A to P.**

**The right rotary switch defines the element address e with 16 numerical values from 0 to 15.**

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

Position 0: Dimmer switch for R and L loads up to 300W at cos phi = 1 and 150W at cos phi = 0.6. Dimming range 10-100%.

Position 1: Dimmable LED lamps with phase control. Dimming range 15-100%.

Position 2: Dimmer switch for electronic universal transformers up to 150W.

Important: Please observe the minimum load of universal transformers. Dimming range from 30 to 100%. Also suitable to control fountain pumps. Dimming range 35-100%.

To the left of the rotary switches is a red LED which indicates all activities.

Next to it is a reset pushbutton and to the right of that is a service pin.

The terminals located above are plug-in terminals for conductor cross-sections of 0.2 mm<sup>2</sup> to 1.5 mm<sup>2</sup>.

#### Address assignment:

The left rotary switch defines the group address **g** with 16 alphabetical values from A to P.

The right rotary switch defines the element address **e** with 16 numerical values from 0 to 15.

Any number of devices (actuators/sensor inputs) can have the same **g** and **e**.

All actuators with the same **g** and **e** are switched together.

The group address **g** identifies a main group, e.g. all Venetian blind actuators have the same **g** but different **e**.

Elementary address **e**

Sensor inputs with **e = 0** act on all actuators with the same **g** irrespective of **e** (e.g. central control for Venetian blinds).

Addresses can be changed at any time (when power is applied or not applied).

#### 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.**

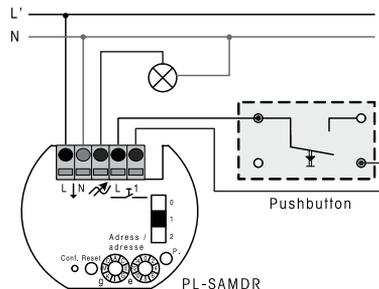
##### Reset to as-delivered state:

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



**Must be kept for later use!**

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