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Eltako

Powerline sensor input  
PL-SM1L

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 sensor input with 1 channel.  
53 x 43 mm, 25 mm deep for mounting in  
58 mm switch boxes. Sensor input 230 V.  
Standby loss only 0,5 watt. To control and  
switch at different places.

When pressed, the sensor input acts on all  
actuators with the same address or as a cen-  
tral pushbutton if element address 0 is used.  
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**: Sensor input with reset function  
as pushbutton.

Position **1**: Sensor input functions as NO  
contact.

Position **2**: A change-over switch is evaluated  
as a pushbutton.

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 mm² to 1.5 mm².

Address assignment:

The left rotary switch defines the group ad-  
dress **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 in-  
puts) 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 config-  
ured devices are off.**

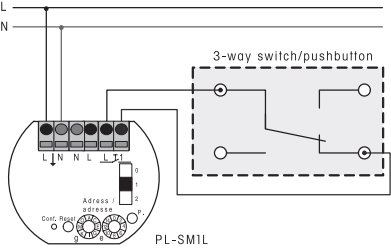
Reset to as-delivered state:

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



Manuals and documents in further  
languages



<http://eltako.com/redirect/PL-SM1L>



Must be kept for later use!

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