

Powerline actuator 2 channels



PL-SAM2L

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 actuator with 2 channels.
53x43mm, 25mm deep for mounting in
58mm switch boxes. Used as impulse
switch or relay. 1+1 NO contact not
potential free 5A/250V AC, incandescent
lamps 1000 watts. 2 sensor inputs with
internal low voltage. Standby loss only
0,5 watt. To control and switch at the
same place.

Use only potential free switching elements.
Internal low voltage applied to the sensor
inputs.

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 inputs function as
pushbuttons (impulse switches).

Position 1: Sensor input functions as
NC contact (relay).

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. Next to them are
three wires with wire end-sleeves for the
two control inputs with internal low vol-
tage.

orange = common ground
brown = output 1
blue = output 2

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**.

Input or output 1 receives the set address
(g, e). Input or output 2 receives the
next higher address (g, e+1).

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).



**The inputs have N potential;
protection against user contact
must be ensured!
The wire leads of open inputs
have to be insulated.**

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 con-
figured 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.**

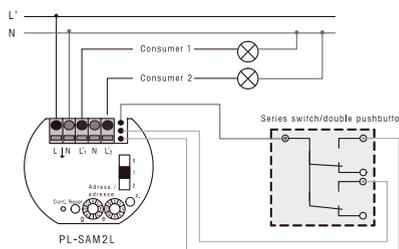
Reset to as-delivered state:

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



orange = common ground
brown = output 1
blue = output 2

Must be kept for later use!

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