

OBLO Living
High Load Switch
AE100
SO10M1-ZB-B



USER MANUAL

Congratulations and thank you for purchasing OBLO Living High Load Switch device. Below you will find useful operating guidelines.

DEVICE DESCRIPTION

OBLO Living High Load Switch SO10M1-ZB-B (Illustration 1) is a device that allows you to control your home electrical appliances or light switches remotely from anywhere. It also measures power consumption of the device attached to it and has automatic overload protection. The device is compliant with ZigBee Home Automation (ZHA) 1.2 and is guaranteed to function with any ZHA 1.2-compliant system. In addition, it allows pairing with any device supporting ZHA binding feature.

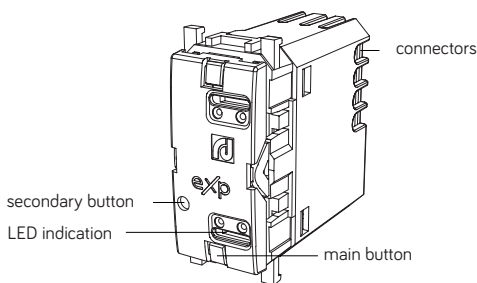


Illustration 1

The device is equipped with overload protection circuit that automatically switches off the power if power consumption exceeds factory defined limit of 2200W.

NOTE: When pressing secondary button, please use appropriate non-metallic tool.

WIRING

OBLO Living High Load Switch is easy to install into existing installations by replacing old sockets or light switches.

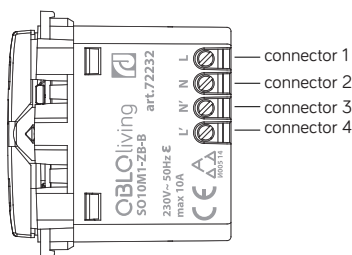


Illustration 2: Connectors

Illustrations 3 and 4 are presenting two possible wiring methods.

NOTE: Connectors N i N' are short-circuited.

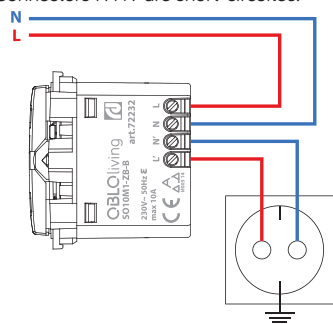


Illustration 3: Wiring method for controlling the socket

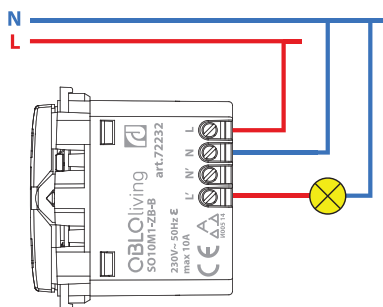
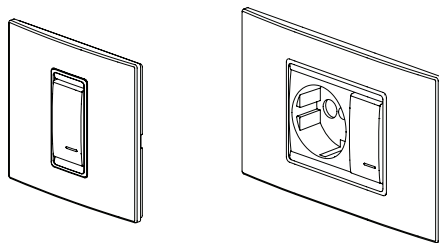


Illustration 4: Wiring method for controlling the light switch

OBLO Living High Load Switch is installed between the mains supply and the wall socket or light switch. High Load Switch breaks only one conductor - phase conductor, and must be installed in accordance with Illustration 3 in case when High Load Switch is controlling the socket, or in accordance with Illustration 4 in case when High Load Switch is controlling light switch.

High Load Switch is equipped with overload protection circuit with factory defined limit of 2200W. In case that the device is connected to higher load for more than 2 seconds it will automatically turn off. In this case, LED indication will warn user of the overload (LED will blink red). When overload occurs, High Load Switch can be returned to normal mode by pressing the main button.

INSTALLATION

In order to install OBLO Living High Load Switch, please follow the procedure explained below. Installation elements are shown in Illustration 6.

NOTE: In case you are not sure that you have enough knowledge about electrical wiring, please contact qualified technician to install the device.

1. Turn off power at the electrical circuit at which you will install High Load Switch. Do this by switching off the appropriate fuse or MCB in the fuse panel or distribution board. Check the wires with a voltage detector to verify that the power is off.
2. Prepare the wires in wall installation box by removing the insulation. Wire insulation should be stripped back 5mm from the wire end (Illustration 5).



Illustration 5

3. Mount the OBLO Living High Load Switch into the wall box by following these steps:

- 1) Place the switch button on the High Load Switch. Pay attention to the orientation of the device - check if pressure on the switch button causes a distinctive "click".
- 2) High Load Switch with switch button should be inserted into the center hole of the mounting frame. Push it from the front until you can hear a click. In case you are installing high load switch with outlet, do the same for the outlet.
- 3) Connect the wall box wires to the connectors on High Load Switch and outlet (in case you are installing High Load Switch with outlet) with a screwdriver according to wiring method explained in Illustration 3. Softly pull conductors to check if they are well fixed

4) Carefully put the mounting frame into the box (so that the High Load Switch is inside the box) and secure it with screws.

- 5) Put the decorative mask (1M or 3M mask with outlet) on the mounting frame and press it until you hear a click.

Decorative mask Mounting frame

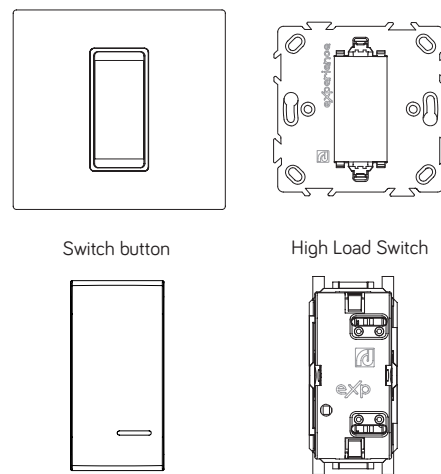


Illustration 6: Installation elements

4. Turn on power at the electrical circuit of High Load Switch (return fuse or MCB to the original position).
5. Test the device to see if it is working properly. When turned on for the first time, LED indication should light red. If that is not the case, High Load Switch is either defective or has been already added to some ZigBee network. To restore your High Load Switch to default factory settings, see section Factory reset.
6. If High Load Switch is working properly, you need to configure it to operate as a standalone unit or as a part of OBLO Living home automation system.

PREPARATION

After powering up for the first time High Load Switch is not associated with any ZigBee network. In order to enable wireless control feature, High Load Switch should operate as a standalone unit or as a part of OBLO Living home automation (HA) system.

HIGH LOAD SWITCH AS A STANDALONE UNIT

Please follow the procedure below to enable High Load Switch to function as a standalone unit:

1. Create a new standalone ZigBee network:
 - 1) Press and hold secondary button (approx. 5 seconds). After releasing the button, LED indicator starts blinking red and green alternately.
 - 2) Few seconds later, LED indicator will turn off, which means that new ZigBee network is created and opened for other devices to join it.

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2. Allow standalone network joining procedure:

- 1) Press secondary button once in order to open standalone network. While network is opened, LED will blink green once in a second.
- 2) During this period of time, other devices can join High Load Switch's network according to manufacturer's instructions.

Add new High Load Switch to existing High Load Switch's network

In case you would like to add new High Load Switch to existing High Load Switch's network, please follow next steps:

1. On the existing High Load Switch press secondary button once to open ZigBee network. While network is opened, LED will blink green
2. On the new High Load Switch press secondary button once to start joining procedure. During joining procedure LED will blink red. After successful joining, LED will blink green NO longer than 3 minutes.

NOTE:

In case you would like to assign a specific color of LED indicator to the particular High Load Switch status (on/off), press and hold secondary button until LED indicator starts changing its color in the following order – red, green, orange. Releasing the button to a particular color assigns that color to the current state of the device (e.g. if High Load Switch is on and you release the button while LED indicator is red, the LED will light red whenever High Load Switch is turned on). Make sure that High Load Switch's network is closed during the operation. In case the network is opened, LED will blink green.

HIGH LOAD SWITCH AS A PART OF OBLO LIVING HOME AUTOMATION SYSTEM

In order to add High Load Switch to existing ZHA 1.2-compliant system please follow next steps:

1. On the gateway's side initiate device inclusion procedure according to gateway manufacturer's instructions.
2. On the High Load Switch press secondary button once to start joining procedure. During joining procedure LED will blink red.
3. After successful joining, LED will blink green no longer than 3 minutes.

USER DEFINED POWER LIMIT

NOTE:

Setting of power limit can be done in case when High Load Switch is a part of standalone network (without home automation gateway as a central device). When High Load Switch is part of existing home automation system with gateway as a central device, the consumption can be adjusted via the client application.

Setting power limit to the maximum value

1. Make sure that there is no device attached to High Load Switch.
2. Press secondary button 5 times in order to set power limit to the maximum value (2200W).

Setting user defined power limit

1. Attach the device with desired power consumption to High Load Switch.
2. Make sure that High Load Switch is switched ON.
3. Press secondary button 5 times to set new power limit that is actually current power consumption of the device attached to High Load Switch. During the operation, LED will blink red and green simultaneously.

FACTORY RESET

In order to restore your High Load Switch to default factory settings please follow next steps:

1. Press secondary button 10 times to reset the device to factory settings.
2. After successful operation, LED will change its color to red.

BUTTONS/FUNCTIONS

| BUTTON | Button Operation | Action | LED indication |
|-----------|--------------------------------|--------------------------------------|------------------------------------|
| MAIN | 1 x short press | Power ON/OFF | |
| | | Return to normal mode after overload | |
| SECONDARY | 1 x short press | Open ZigBee network | Blink green (once in a second) |
| | | Join the gateway's network | Blink red |
| | 2 x short press | Pair as initiator | Blink green (twice in a second) |
| | 3 x short press | Pair as target | Blink orange |
| | 5 x short press | Set user defined power limit | Blink red and green simultaneously |
| | Long press (approx. 5 seconds) | Create own ZigBee network | Red and green alternately |
| | 10 x short press | Factory reset | Red |

TECHNICAL DATA

| | |
|------------------------|--|
| Communication Protocol | ZigBee |
| Range | Up to 30m (depending on your home's construction) |
| Operating Temperature | 0 - 40 °C |
| Protection Degree | IP20 |
| Power | 230V AC, 50Hz |
| Maximum Load | 10A 230V AC |
| Dimensions | Module W x H x D: 22.2 x 41.5 x 47.1 mm Mask W x H x D: 97.6 x 91.8 x 47.1 mm Mask with outlet W x H x D: 120 x 91.8 x 47.1 mm |

ATTENTION!

⚠ WARNING! Improper use or installation of the device can cause **SERIOUS INJURY, DEATH or LOSS/DAMAGE OF PROPERTY.**

⚠ WARNING! Using High Load Switch device in a manner other than outlined in this document is not allowed.

⚠ WARNING! Using more than one High Load Switch for controlling one consumer may cause permanent damage to the devices/wiring system.

⚠ WARNING! Turning the device on/off more often than once in two seconds can shorten its lifetime.

⚠ CAUTION! Do not try to open or to repair the device by yourself, otherwise **SERIOUS INJURY, DEATH or LOSS/DAMAGE OF PROPERTY** is possible.

⚠ IMPORTANT! Do not overload the device above the recommended limit.