POPP

Z-Wave Wall Plug Switch

Quick Start

This is a Z-Wave actuator. Inclusion and Exclusion are confirmed by a triple click of the button. Please refer to the chapters below for detailed information about all aspects of the products usage.

Product description

This is a switch plug that can be placed between a standard wall outlet and electric devices, plugged in by cord. It can switch all electrical loads up to 3500 W. The device is IP 20 rated and can therefore only be used on dry environments. Switching is controlled wirelessly using Z-Wave or locally using a toggling button. A blue LED indicates the switching status. An automatic 'Off' function and programmable switching behavior make the device a very flexible tool for the in house lighting.

Installation Guidelines

The plug is IP20 rated and can therefore only be used in dry environments. Do not locate the device facing direct sunlight, humid or dusty place. The suitable ambient temperature for the device is 0°C ~ 40°C. Plugs must not be stacked when operated.

Behavior within the Z-Wave network

On factory default the device does not belong to any Z-Wave network. The device needs to join an existing wireless network to communicate with the devices of this network. This process is called **Inclusion**. Devices can also leave a network. This process is called **Exclusion**. Both processes are initiated by the primary controller of the Z-Wave network. This controller will be turned into exclusion respective inclusion mode. Please refer to your primary controllers manual on how to turn your controller into inclusion or exclusion mode. Only if the primary controller is in inclusion or exclusion mode, this device can join or leave the network. Leaving the network - i.e. being excluded - sets the device back to factory default.

If the device already belongs to a network, follow the exclusion process before including it in your network. Otherwise inclusion of this device will fail. If the controller being included was a primary controller, it has to be reset first.

Inclusion and Exclusion are confirmed by a triple click on the button.

Operating the device

The device is able to switch electric loads up to 3500 W and can be switched wirelessly or using the local button.

Local Operation
The local button allows switching the device. A short press on the button toggles the switch. If it is in on state the button turns off and respective in off state the button turns on.

LED Usage
The device has one blue LED used to indicate status information. The behavior of the blue LED can be configured:

- It may show the switching state. This is the default option.
- It may serve as night light. So it is on when the light is off.
- It is deactivated.
- It can be controlled wirelessly and used as an indicator for other advanced functions.

Automated Switch-Off Function
If activated the switch will turn off automatically after a defined time. This function is particularly useful if the switch is turned on using a motion detector of any other type of sensor. In this case it is possible to further define the reaction of the

switch on certain signals sent from a sensor. This allows a very flexible application of the plug switch in the house.

Child Protection

The device can be turn into a child protection mode. In this mode all local operation is disabled.

The child protection mode MUST be turned on wirelessly. However in protected by sequence mode it is possible to unlock the device for local operation with a triple click. The unlock state will last for 5 seconds.

Associations

Z-Wave devices control other Z-Wave devices. The relationship between one device controlling another device is called *association*. In order to control a different device, the controlling device needs to maintain a list of devices that will receive controlling commands. These lists are called **association groups** and they are always related to certain events (e.g. button pressed, sensor triggers, ...). In case the event happens all devices stored in the respective association group will receive a common wireless command.

Association Groups:

| 1 | Send Reports on switch state change (max. nodes in group: 5) |

Configuration Parameters

Z-Wave products are supposed to work out of the box after inclusion, however certain configuration can adapt the function better to user needs or unlock further enhanced features.

LED mode (Parameter Number 1, Parameter Size 1)
Set LED indication mode

Value	Description
0	Disabled
1	Show switch state (Default)
2	Night mode (inverted switch state)

| 3 | Operated by Indicator Command Class |

Automatically switch off after (Parameter Number 2, Parameter Size 2)
If not zero, automatically switch off after a user defined time

Value	Description
0	Disabled (Default)
1 — 65535	sec

What to do on RF off command (Parameter Number 3, Parameter Size 1)
Defines how to interpret RF Off command. Can be used in conjunction with Auto Off function: Ignore - to switch on the light by motion detectors and switch it off after some amount of time: in case of multiple motion detectors each would try to switch the light off that would break logics; Switch on - to switch on the light on both On and Off paddle press on the remote and switch it off after some amount of time. Button off click will still work (if button operations are not disabled).

Value	Description
0	Switch off (Default)
1	Ignore
2	Switch on
3	Switch on if load is off else switch off

Restore switch state after power cycle (Parameter Number 5, Parameter Size 1)
Defines if the switch should restore switch state to the last state prior to device power off (power cycle).

Value	Description
0	No, turn off
1	Yes (Default)

Technical Data

Power Supply	230V ~50-60 Hz
Attachable Loads	all loads up to 3500 W
Fuse	Type: T 1.25 A H (Load 1.25 Ampere, high shutdown capacity), D: 5 mm, L: 20 mm
IP Rating	20
Frequency	868.42 MHz (SRD Band)
Wireless Range	up to 100 m outside, on average up to 20 m inside buildings
Explorer Frame Support	Yes
SDK	4.54 pl1
Device Type	Slave with routing capabilities
Generic Device Class	Binary Switch
Specific Device Class	Binary Power Switch
Routing	Yes
FLiRS	No
Firmware Version	1.0

Explanation of Z-Wave specific terms

- **Controller** — is a Z-Wave device with capabilities to manage the network. Controllers are typically Gateways, Remote Controls or battery operated wall controllers.
- **Slave** — is a Z-Wave device without capabilities to manage the network. Slaves can be sensors, actuators and even remote controls.
- **Primary Controller** — is the central organizer of the network. It must be a controller. There can be only one primary controller in a Z-Wave network.
- **Inclusion** — is the process of bringing new Z-Wave devices into a network.
- **Exclusion** — is the process of removing Z-Wave devices from the network.

- **Association** — is a control relationship between a controlling device and a controlled device.
- **Wakeup Notification** — is a special wireless message issued by a Z-Wave device to annonces that is is able to communicate.
- **Node Information Frame** — is a special wireless message issued by a Z_Wave device to announce its capabilities and functions.

Warranty

Popp & Co. guarantees that every device is free from physical defects in material and workmanship under normal use for two years from the date of purchase. If the product proves defective during this one-year warranty period, Popp & Co or its representatives will replace it free of charge. Popp & Co. does not issue any refunds. This warranty is extended to the original end user purchase only and is not transferable. This warranty does not apply to: (1) damage to units caused by accident, dropping or abuse in handling, or any negligent use; (2) units which have been subject to unauthorized repair, taken apart, or otherwise modified; (3) units not used in accordance with instruction; (4) damages exceeding the cost of the product; (5) transit damage, initial installation costs, removal cost, or reinstallation cost. For information on additional devices, please visit us online.

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