



Shelly QMSW-0A1X8EU Wave 1 Mini Smart Switch With Potential Free User Guide

[Home](#) » [Shelly](#) » Shelly QMSW-0A1X8EU Wave 1 Mini Smart Switch With Potential Free User Guide 

Shelly QMSW-0A1X8EU Wave 1 Mini Smart Switch With Potential Free



Contents

- 1 CONNECTION
- 2 USER AND SAFETY GUIDE
- 3 READ BEFORE USE
- 4 TERMINOLOGY
- 5 ABOUT SHELLY QUBINO
- 6 ABOUT THE DEVICE
- 7 INSTALLATION INSTRUCTIONS
- 8 SPECIFICATIONS
- 9 OPERATIONAL INSTRUCTIONS
- 10 SUPPORTED LOAD TYPES
- 11 IMPORTANT DISCLAIMER
- 12 DECLARATION OF CONFORMITY
- 13 CUSTOMER SUPPORT
- 14 Documents / Resources
 - 14.1 References

CONNECTION

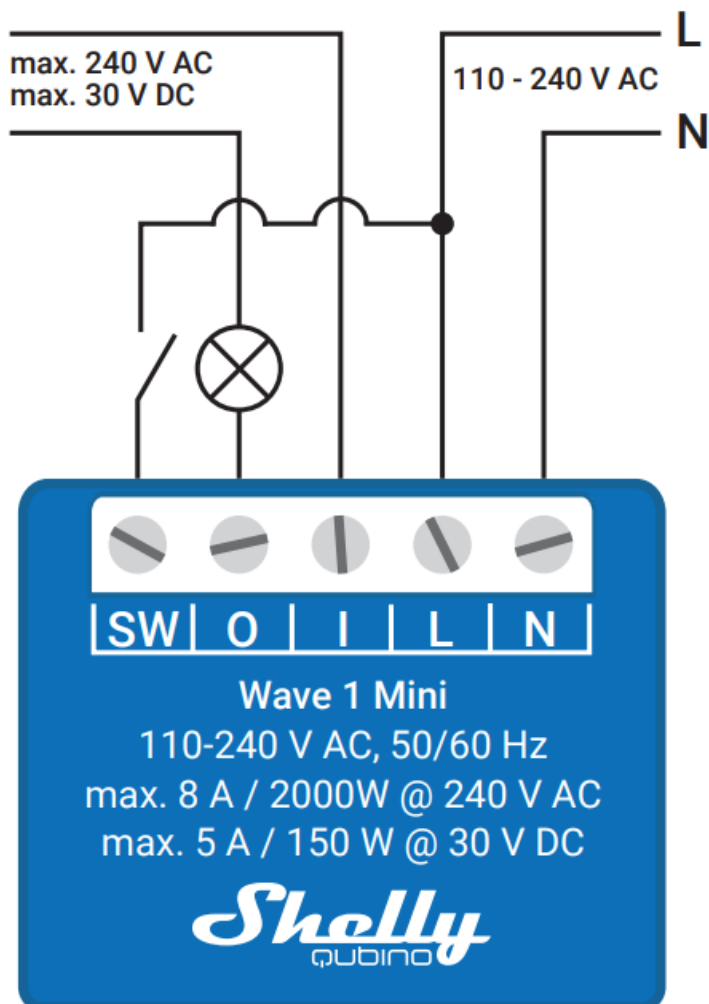


Fig.1

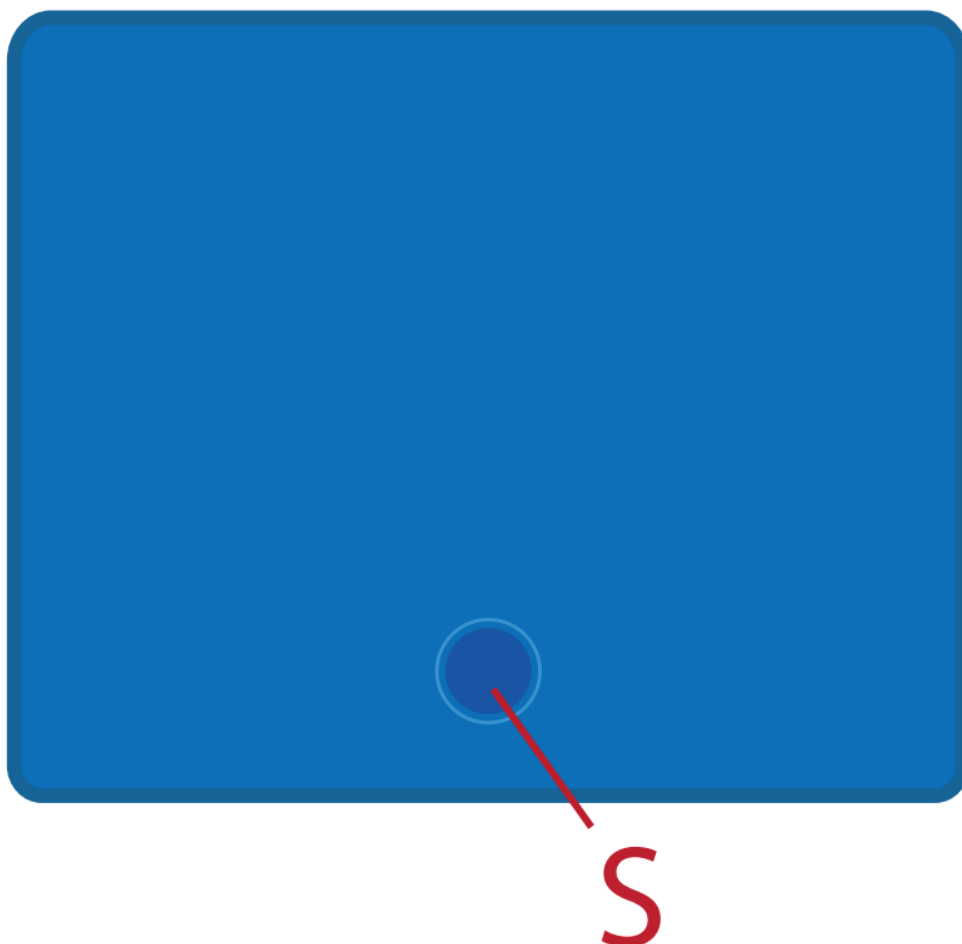



Fig.2

USER AND SAFETY GUIDE

Z-Wave® smart switch with potential-free contacts

READ BEFORE USE

This document contains important technical and safety information about the Device, its safe use and installation.

 **CAUTION!** Before beginning the installation, please read carefully and entirely this guide and any other documents accompanying the Device. Failure to follow the installation procedures could lead to malfunction, danger to your health and life, violation of law or refusal of legal and/or commercial guarantee (if any). Shelly Europe Ltd. is not responsible for any loss or damage in case of incorrect installation or improper operation of this device due to failure of following the user and safety instructions in this guide.

TERMINOLOGY

Gateway – A Z-Wave® gateway, also referred to as a Z-Wave® controller, Z-Wave® main controller, Z-Wave® primary controller, or Z-Wave® hub, etc., is a device that serves as a central hub for a Z-Wave® smart home network. The term “gateway” is used in this document.

S button – The Z-Wave® Service button, which is located on Z-Wave® devices and is used for various functions such as inclusion (adding), exclusion (removing), and resetting the device to its factory default settings. The term “S button” is used in this document.

Device – In this document, the term “Device” is used to refer to the Shelly Qubino device that is a subject of this guide

ABOUT SHELLY QUBINO

Shelly Qubino is a line of innovative microprocessor-managed devices, which allow remote control of electric circuits with a smartphone, tablet, PC, or home automation system. They work on Z-Wave® wireless communication protocol, using a gateway, which is required for the configuration of devices. When the gateway is connected to the internet, you can control Shelly Qubino devices remotely from anywhere. Shelly Qubino devices can be operated in any Z-Wave® network with other Z-Wave® certified devices from other manufacturers. All mains operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network. Devices are designed to work with older generations of Z-Wave® devices and gateways.


ABOUT THE DEVICE


The Device is a small form factor smart switch with potential-free contacts (dry contact). It controls the on/off function for one electrical appliance (with a load of up to 8 A AC or 5 A DC), such as a bulb, ceiling fan, IR heater, electrical lock, garage doors, irrigation system. It is compatible with switches (default) and push-buttons


INSTALLATION INSTRUCTIONS


The Device can be retrofitted into standard electrical wall boxes, behind power sockets and light switches or other places with limited space.


For the installation instructions, refer to the wiring scheme (Fig. 1) in this user guide


 **CAUTION!** Danger of electrocution. Mounting/installation of the Device to the power grid has to be performed with caution, by a qualified electrician.


 **CAUTION!** Danger of electrocution. Every change in the connections has to be done after ensuring there is no voltage present at the Device terminals.


 **CAUTION!** Do not open the Device. It does not contain any parts that can be maintained by the user. For safety and licensing reasons, unauthorized change and/or modification of the Device is not permitted.

 **CAUTION!** Use the Device only with a power grid and appliances that comply with all applicable regulations. A short circuit in the power grid or any appliance connected to the Device may damage it.


 **CAUTION!** No SELV/PELV circuits may be connected to the terminals of the inputs and outputs, including the extension inputs.


 **CAUTION!** Do not connect the Device to appliances exceeding the given max. load!


 **CAUTION!** Connect the Device only in the way shown in these instructions. Any other method could cause damage and/or injury.


 **CAUTION!** Do not install the Device where it can get wet.


 **CAUTION!** Do not use the Device if it has been damaged!


 **CAUTION!** Do not attempt to service or repair the Device yourself!


 **CAUTION!** Before starting the mounting/installation of the Device, check that the breakers are turned off and there is no voltage on their terminals. This can be done with a mains voltage tester or multimeter. When you are sure that there is no voltage, you can proceed to connecting the wires.

 **CAUTION!** Do not shorten the antenna.

 **RECOMMENDATION:** Place the antenna as far away as possible from metal elements as they can cause signal interference.

 **CAUTION!** The load current circuit has to be secured by a cable protection switch in accordance with EN60898-1 (tripping characteristic B or C, max. 8 A rated current, min. 6 kA interrupting rating, energy limiting class 3).

 **RECOMMENDATION:** Connect the Device using solid single-core cables or stranded cables with ferrules. The cables should have insulation with increased heat resistance, not less than PVC T105°C (221°F).

 **RECOMMENDATION:** For inductive appliances that cause voltage spikes during switching on/off, such as

electrical motors, fans, vacuum cleaners and similar ones, RC snubber (0.1 μ F / 100 Ω / 1/2 W / 600 V AC) should be connected parallel to the appliance.



CAUTION! Do not allow children to play with the push-buttons/switches connected to the Device. Keep the devices for remote control of Shelly Qubino (mobile phones, tablets, PCs) away from children

EXTENDED USER GUIDE

For more detailed installation instructions, use cases, and comprehensive guidance on adding/removing the Device to/from a Z-Wave® network, factory reset, LED signalization, Z-Wave® command classes, parameters, and much more, refer to the extended user guide at:

<https://shelly.link/Wave1Mini-KB>



SPECIFICATIONS

Power supply	110-240 V AC, 50/60 Hz
Power consumption	< 0.3 W
Max. switching voltage AC	240 V
Max. switching current AC	8 A
Max. switching voltage DC	30 V
Max. switching current DC	5 A
Overheating protection	Yes
Distance	Up to 40 m indoors (131 ft.) (depends on local condition)
Z-Wave® repeater	Yes
CPU	Z-Wave® S800
Z-Wave® frequency bands	868,4 MHz; 865,2 MHz; 869,0 MHz; 921,4 MHz; 908,4 MHz; 916 MHz; 919,8 MHz; 922,5 MHz; 919,7- 921,7-923,7 MHz; 868,1 MHz; 920,9 MHz
Maximum radio frequency power transmitted in frequency band(s)	< 25 mW

Size (H x W x D)	29 x 35 x 16 ±0.5 mm / 1.11 x 1.35 x 0.63 ± 0.02 in
Weight	19 ±1 g / 0.65 ±0.04 oz
Mounting	Wall box
Screw terminals max. torque	0.4 Nm / 3.54 lbin
Conductor cross section	0.5 to 1.5 mm ² / 20 to 16 AWG
Conductor stripped length	5 to 6 mm / 0.20 to 0.24 in
Shell material	Plastic
Color	Blue
Ambient temperature	-20°C to 40°C / -5°F to 105°F
Humidity	30% to 70% RH
Max. altitude	2000 m / 6562 ft.

OPERATIONAL INSTRUCTIONS

If the SW (SW1) is configured as a switch (default), each toggle of the switch will change the output O (O1) state to the opposite state – on, off, on, etc. If the SW (SW1) is configured as a push-button in the Device settings, each press of the push-button will change the output O (O1) state to the opposite state – on, off, on, etc

SUPPORTED LOAD TYPES

Resistive (incandescent bulbs, heating devices)

Capacitive (capacitor banks, electronic equipment, motor start capacitors)

Inductive with RC Snubber (LED light drivers, transformers, fans, refrigerators, air-conditioners)

IMPORTANT DISCLAIMER

Z-Wave® wireless communication may not always be 100% reliable. This Device should not be used in situations in which life and/or valuables are solely dependent on its functioning. If the Device is not recognized by your gateway or appears incorrectly, you may need to change the Device type manually and ensure that your gateway supports Z-Wave Plus® multi-channel devices

ORDERING CODE: QMSW-0A1X8XX

XX – Values define product version per region

DECLARATION OF CONFORMITY

Hereby, Shelly Europe Ltd. (former Allterco Robotics EOOD) declares that the radio equipment type Wave 1 Mini

is in compliance with Directive 2014/53/ EU, 2014/35/EU, 2014/30/EU, 2011/65/EU. The full text of the EU declaration of Conformity is available at the following internet address:

<https://shelly.link/Wave1Mini-DoC>

CUSTOMER SUPPORT

MANUFACTURER

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Web: <https://www.shelly.com>

Changes in the contact data are published by the Manufacturer at the official website.



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References

- shelly.link/Wave1Mini-DoC
- [Wave 1 Mini](#)
- [Support](#)
- [User Manual](#)

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