



Shelly

Shelly Wave 1 mini

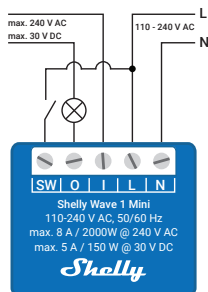


Fig. 1

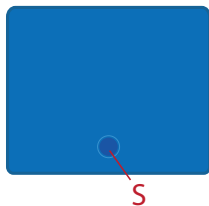


Fig. 2

EN

LEGEND

Device terminals:

- N: Neutral terminal
- L: Live terminal (110-240 V AC)
- SW (SW1): Switch/push-button input terminal (controlling O (O1))
- O (O1): Load circuit output terminal (1)
- I: Load circuit input terminal

Wires:

- N: Neutral wire
- L: Live wire (110-240 V AC)

Button:

- S: S button (Fig. 2)

For more detailed installation instructions

https://shelly.link/ShellyWave1MiniUS_LR-KB



EN

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.

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.

⚠WARNING! Risk of electric shock. Make sure that after installing the device, its screw terminals are not accessible to users and protected by accidental short circuits!

⚠WARNING! The operation of the service button must be managed by a professional installer. Risk of electric shock.

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

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

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

⚠CAUTION! The load current circuit must be secured by a cable protection switch in accordance with EN60898-1 (tripping characteristic B or C, max. 10 A rated current, min. 6 kA interrupting rating, energy limiting class 3).

⚠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! Do not shorten the antenna.

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

⚠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 allow children to play with the push-buttons/ switches connected to the Device. Keep the devices for remote control of Shelly Wave (mobile phones, tablets, PCs) away from children.

⚠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 µF / 100 Ω / 1/2 W / 600 V AC) should be connected parallel to the appliance.

TECHNICAL SPECIFICATIONS

Power supply: 110-240 V AC, 50/60 Hz

Power consumption: < 0.3 W

External protection: 10 A, tripping characteristic B or C

6 kA interrupting rating Energy limiting class 3

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

Wireless protocol: Z-Wave

CPU: S800

Z-Wave® Mesh distance: Up to 40 m indoors (131 ft.) (depends on local condition)

Z-Wave® Mesh frequency band: 908.4 MHz

Z-Wave® Long range distance: Up to 80 m indoors (262 ft.) or up to 1000 m outdoors (3281 ft.)

Z-Wave® Long range frequency band: 912 MHz

Z-Wave® repeater: No (Long Range), Yes (Mesh)

Size (H x W x D): 29x35x16 ±0.5 mm /

1.11x1.35x0.63 ±0.02 in

Weight: 19 ±1 g / 0.65 ±0.04 oz

Mounting: In-wall box

Screw terminals max. torque: 0.4 Nm / 3.54 lbin

Conductor cross section: 0.5 to 1.5 mm² / 20 to

16 AWG

Conductor stripped length: 5 to 6 mm / 0.20 to

0.24 in

Shell material: Plastic

Color: Blue

Ambient working temperature: -20°C to 40°C /

-5°F to 105°F

Humidity: 30% to 70% RH

Max. altitude: 2000 m / 6562 ft.

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 and Z-Wave® Long Range capability in case of Long Range devices.

DISPOSAL & RECYCLING

This refers to the waste of electrical and electronic equipment. It is applicable in the US and other countries to collect waste separately.



This symbol on the product or in the accompanying literature indicates that the product should not be disposed of in the daily waste. Shelly Wave 1 Mini must be recycled to avoid possible damage to the environment or human health from uncontrolled waste disposal and to promote the reuse of materials and resources. It is your responsibility to dispose of the device separately from general household waste when it is already unusable.

FCC NOTES

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification or change to this equipment. Such modifications or change could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio

communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

RF exposure statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

ORDERING CODE: QTSW-0A1X8US

FCC ID: 2BDC6-WAVE1MINI

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



