USER AND SAFETY GUIDE

Wi-Fi smart switch with potential-free contacts Shelly Plus 1 Mini

Read before use

This document contains important technical and safety informa-

tion about the device, its safe use and installation.

CAUTION! Before beginning the installation, please read carefully and entirely this guide and any other documents accompany-ing 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.

Product Introduction

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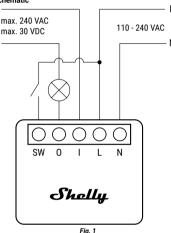
Shelly® is a line of innovative microprocessor-managed devices, which allow remote control of electric circuits through a mobile phone, tablet, PC, or home automation system. Shelly® devices can work standalone in a local Wi-Fi network or they can also be operated through cloud home automation services. Shelly Cloud is a service that can be accessed using either an Android or iOS mobile application or with any internet browser at https://control.shelly.cloud/. Shelly® devices can be accessed, controlled, and monitored remotely from any place where the user has internet connectivity, as long as the devices are connected to a Wi-Fi router and the Internet. Shelly® devices have an Embedded Web Interface accessible at 192.168.33.1 when connected directly to the device access point, or at the device IP address on the local Wi-Fi network. The embedded Web Interface can be used to monitor and control the device, as well as adjust its settings

Shelly® devices can communicate directly with other Wi-Fi devicthrough HTTP protocol. An API is provided by Shelly Europe Ltd. For more information, please visit:

lly.cloud/#shelly-family

Shelly® devices are delivered with factory-installed firmware. If firmware updates are necessary to keep the devices in conformi-ty, including security updates, Shelly Europe Ltd. will provide the updates free of charge through the device Embedded Web Inter-face or the Shelly mobile application, where the information about current firmware version is available. The choice to install or not the device firmware updates is the user's sole responsibility. Shelly Europe Ltd. shall not be liable for any lack of conformity of the device caused by failure of the user to install the provided updates in a timely manner

Schematic



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Device terminals: • SW: Switch input terminal

- O: Relay output terminal
- I: Relay input terminal L: Live (110-240 VAC) terminal
- N: Neutral terminal

N: Neutral wire

- L: Live (110 240 VAC) wire

Installation Instructions

Shelly Plus 1 Mini (the Device) is a small form factor smart switch with potential-free contacts, which allows remote control of electric appliances It can be retrofitted into standard electrical wall boxes, behind power sockets and light switches or other places with limited

space.

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 connection. tions 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. A CAUTION! Do not connect the Device to appliances exceeding

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

CAUTION! Do not use the device if it shows signs of damage!

Do not attempt to service or repair the Device yourself!

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

▲ 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).

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 phase tester or multimeter. When you are sure that there is no voltage, you can proceed to connecting the cables

Connect the load circuit to the Device I and O terminals.

Connect the Live wire to the Device L terminal, and the Neutral wire to the N terminal as shown on fig. 1. Connect a switch or a button to the Device SW terminal and the

A 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 VAC) should be connected parallel to the appliance. The RC snubber can be purchased at

Initial Inclusion

If you choose to use the Device with the Shelly Smart Control mo-bile application and cloud service, instructions on how to connect the Device to the Cloud and control it through the Shelly Smart Control app can be found in the mobile application guide.

The Shelly mobile application and Shelly Cloud service are not conditions for the Device to function properly. This Device can be used standalone or with various other home automation platforms and protocols.

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

Specification

- Dimensions (HxWxD): 29x34x16 mm / 1.34x1.11x0.63 in Ambient temperature: -20 °C to 40 °C / -5 °F to 105 °F
- Humidity 30 % to 70 % RH Max. altitude 2000 m / 6562 ft
- Power supply: 110 240 VAC, 50/60Hz Electrical consumption: < 1.2 W
- Max. switching voltage AC: 240 V Max. switching voltage DC: 30 V
- Max. switching current AC: 8 A Max. switching current DC: 5 A

- Potential-free contacts: Yes Wi-Fi frequency: 2412 2462 MHz
- Wi-Fi protocol: 802.11 b/g/n Wi-Fi operational range (depending on local conditions):
- up to 50 m / 160 ft outdoors up to 30 m / 100 ft indoors
- Bluetooth protocol: 4.2
 - Bluetooth frequency: 2402 2480 MHz
 - up to 10 m / 33 ft indoors
- CPU: ESP32 Flash: 4 MB
- Schedules: 20
- Webhooks (URL actions): 20 with 5 URLs per hook
- ripting: mJS
- MOTT: Yes

Declaration of conformity
Hereby, Shelly Europe Ltd. (former Allterco Robotics EOOD)
declares that the radio equipment type Shelly Plus 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/plus1mini_DoC FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

FCC Warning

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.

Note: 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
- NOTE 2: Any changes or modifications to this unit not expressly

approved by the party responsible for compliance could void the user's authority to operate the equipment.

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Official website: https://www.shellv.com

Changes in the contact information data are published by the Manufacturer on the official website. All rights to the trademark Shelly® and other intellectual rights as-

sociated with this Device belong to Shelly Europe Ltd.

