

USER AND SAFETY GUIDE

Shelly Plus i4

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

CAUTION! Before beginning the installation, please read this guide and any other documents accompanying the device carefully and completely. Failure to follow the installation procedures could lead to malfunction, danger to your health and life, violation of the law or refusal of legal and/or commercial guarantee (if any). Allterco Robotics 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

Shelly® is a line of innovative Devices, which allow remote control of electric appliances through a mobile phone, tablet, PC, or home automation system. Shelly® may work standalone on the local Wi-Fi network, without being managed by a home automation controller, or it can also work through cloud home automation services. Shelly® devices can be accessed, controlled, and monitored remotely from any place the User has Internet connectivity, as long as the devices are connected to a Wi-Fi router and the Internet.

Shelly® has an integrated web server, through which the User may adjust, control and monitor the Device. Shelly® has two Wi-Fi modes - access Point (AP) and Client mode (CM). To operate in Client Mode, a Wi-Fi router must be located within the range of the Device. Shelly® devices can communicate directly with other Wi-Fi devices through HTTPS protocol. An API can be provided by the Manufacturer.

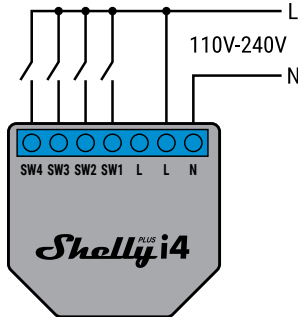
Shelly® devices may be available for monitor and control even if the User is outside the range of the local Wi-Fi network, as long as the Wi-Fi router is connected to the Internet. The cloud function could be used, which is activated through the web server of the Device or through the settings in the Shelly Cloud mobile application.

The User can register and access Shelly Cloud, using either Android or iOS mobile applications, or any internet browser and the website: <https://my.Shelly.cloud/>

Control your home with your voice

Shelly® devices are compatible with Amazon Echo and Google Home supported functionalities. Please see our step-by-step guide on: <https://shelly.cloud/support/compatibility/>

fig. 1



Legend

- N - Neutral input (Zero)
- L - Line input (110-240V)
- SW1 - Switch 1 (input)
- SW2 - Switch 2 (input)
- SW3 - Switch 3 (input)
- SW4 - Switch 4 (input)

Installation instructions

The Wi-Fi switch input Shelly Plus i4 may send commands for control of other devices, over the Internet. It is intended to be mounted into a standard in-wall console, behind power sockets and light switches or other places with limited space. Shelly may work as a standalone Device or as an accessory to another home automation controller.

For more information, please visit:

<http://shelly-api-docs.shelly.cloud/#shelly-family-overview> or contact us at: developers@shelly.cloud

CAUTION! Danger of electrocution. The mounting/installation of the Device should be done by a qualified person (electrician).

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

CAUTION! Use the Device only with a power grid and appliances which comply with all applicable regulations. Short circuit in the power grid or any appliance connected to the Device may damage the Device.

CAUTION! The Device may be connected to and may control

electric circuits and appliances only if they comply with the respective standards and safety norms.

CAUTION! The Device may be connected with solid single-core cables with increased heat resistance to insulation not less than PVC T105°C.

Before installing/mounting the Device ensure that the grid is powered off (turned down breakers). Connect the Relay to the power grid and install it in the console behind the switch/power socket following the scheme that suits the desired purpose:

Connecting to the power grid with power supply 110-240V AC (fig. 1).

Before starting, wire check that the breakers are turned off and there is no voltage on their terminals. This can be done with a phase meter or multimeter. When you are sure that there is no voltage, you can start wiring the cables according to fig. 1. Connect with a wire the signal L to the common pin on the switch. Install cables from the switch to the terminals SW1-SW4. Connect a wire from the Fuse to "L". Connect the Neutral to the device.

Initial inclusion

You may choose if you want to use Shelly with the Shelly Cloud mobile application and Shelly Cloud service. Instructions on how to connect your device to the Cloud and control it through the Shelly App can be found in the "App guide". You can also familiarize yourself with the instructions for Management and Control through the embedded Web interface.

Specification

- **Power supply:** 110-240V, 50/60Hz AC
- **Complies with EU standards:** RED 2014/53/EU, LVD 2014/35/EU, EMC 2014/30/EU, RoHS2 2011/65/EU
- **Working temperature:** -20°C up to 40°C
- **Radio signal power:** 1mW
- **Radio protocol:** WiFi 802.11 b/g/n
- **Frequency:** 2412 - 2462 MHz
- **Operational range (depending on local construction):** up to 50 m outdoors, up to 30 m indoors
- **Dimensions:** (HxWxL): 41x36x17 mm
- **Electrical consumption:** <1 W
- **Mounting:** Wall box
- **Wi-Fi:** YES
- **Bluetooth:** v4.2
- **Basic/EDR:** YES
- **Bluetooth modulation:** GFSK, π/4-DQPSK, 8-DPSK
- **Multi-click support:** Up to 32 possible actions (8 per button)
- **Temperature protection:** YES
- **Scripting (mjs):** YES
- **MQTT:** YES
- **URL Actions:** 20
- **Scheduling:** 50
- **CPU:** ESP32
- **Flash:** 4MB

Technical Information

- Control through Wi-Fi from a mobile phone, PC, automation system or any other Device supporting HTTP and/or UDP protocol.
- Microprocessor management.

CAUTION! Danger of electrocution. Mounting the Device to the power grid has to be performed with caution.

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

Declaration of conformity

Hereby, Allterco Robotics EOOD declares that the radio equipment type Shelly Plus i4 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.cloud/knowledge-base/devices/shelly-plus-i4/>

Manufacturer: Allterco Robotics EOOD

Address: Bulgaria, Sofia, 1407, 103 Cherni vrah Blvd.

Tel.: +359 2 988 7435

E-mail: support@shelly.cloud

Web: <http://www.shelly.cloud>

Changes in the contact data are published by the Manufacturer

at the official website of the Device <http://www.shelly.cloud>

All rights to trademark Shelly® and other intellectual rights associated with this Device belong to Allterco Robotics EOOD.

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 help.

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 and your body.