



# expert4house Shelly Plus i4 Digital Input Controller User Guide

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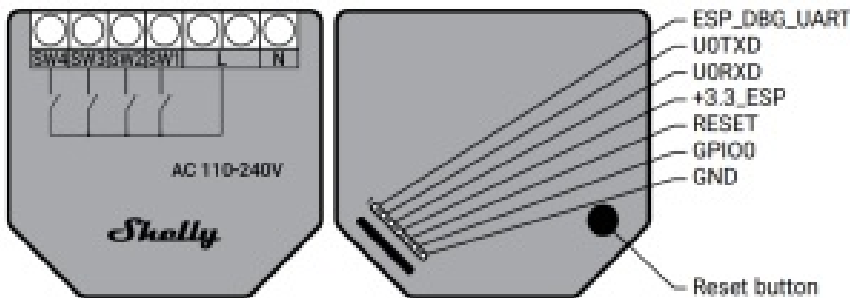
### Read before use

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 EOOD 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.



**CAUTION!** High voltage. Do not connect to the serial interface, when Shelly® Plus i4 is power supplied.

### Product Introduction

Shelly® is a line of innovative microprocessor-managed devices, which allow remote control of electric appliances 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® 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® devices have integrated web servers, through which the user may adjust, control and monitor them. The cloud function could be used, if it is activated through the web server of the device or the settings in the Shelly Cloud mobile application. The user can register and access Shelly Cloud using either Android or iOS mobile application, or with any internet

browser at <https://my.shelly.cloud/>

Shelly® Devices have 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. Devices can communicate directly with other Wi-Fi devices through HTTP protocol. An API is provided by Allterco Robotics EOOD.

For more information, please visit: <https://shelly-api-docs.shelly.cloud/#shelly-family-overview>

## 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/>

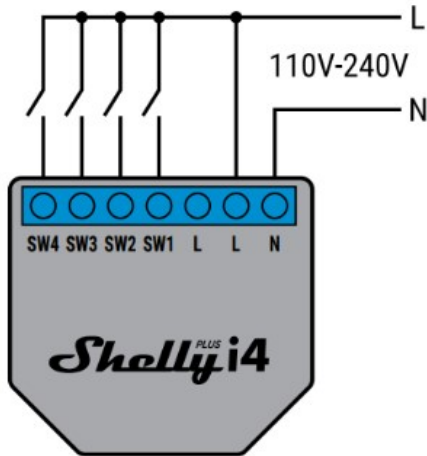


fig.1

## Legend

- **N:** Neutral terminal/wire
- **L:** Live (110-240V) terminal/wire
- **SW1:** Switch terminal
- **SW2:** Switch terminal
- **SW3:** Switch terminal
- **SW4:** Switch terminal

## Installation Instructions

Shelly® Plus i4 (the Device) is a Wi-Fi switch input designed to control other devices over the Internet. It can be retrofitted into a standard in-wall console, behind light switches or other places with limited space.



**CAUTION!** Danger of electrocution. The mounting/installation of the Device should be done by a qualified 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 in a power grid and with appliances that comply with all applicable regulations. Short circuit in the power grid or any appliance connected to the Device may damage the Device.

Before starting, use a phase meter or multimeter to check that the breakers are turned off and there is no voltage on their terminals and the cables you are working with. When you are sure that there is no voltage, you can proceed to wiring the Device.

Connect up to 4 switches to a “SW” terminal of the Device and the Live wire as shown on fig. 1.

Connect the Live wire to an “L” terminal and the Neutral wire to the “N” terminal of the Device.



**CAUTION!** Do not insert multiple wires in a single terminal.



**RECOMMENDATION:** Connect the Device using solid single-core cables.

## Initial inclusion

You can choose 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 at 192.168.33.1 in the Wi-Fi network, created by the Device.



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

## Specification

- Power supply: 110-240V, 50/60Hz AC
- Dimensions (HxWxD): 42x38x17 mm
- Working temperature: 0°C to 40°C
- Electrical consumption: < 1 W
- Multi-click support: Up to 12 possible actions (3 per button)
- Scripting (mjs): YES
- MQTT: YES
- URL Actions: 20
- CPU: ESP32
- Flash: 4MB
- Operational range: (depending on terrain and building structure): up to 50 m outdoors, up to 30 m indoors
- Radio signal power: 1 mW
- Radio protocol: WiFi 802.11 b/g/n
- Frequency Wi-Fi : 2412-2472 MHz; (Max. 2495 MHz)
- Frequency Bluetooth: TX/RX: 2402- 2480 MHz (Max. 2483.5MHz)
- RF output Wi-Fi: <20 dBm

- RF output Bluetooth: <10 dBm
- Bluetooth: v.4.2
- Basic/EDR: YES
- Bluetooth modulation: GFSK,  $\pi/4$ -DQPSK, 8-DPSK

## Declaration of conformity

Hereby, Allterco Robotics EOOD declares that the radio equipment type Shelly Plus i4 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/>

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

Changes in the contact data are published by the Manufacturer at the official website of the Device <https://www.shelly.cloud>

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

***Read More About This Manual & Download PDF:***

## Documents / Resources

	<p><a href="#">expert4house Shelly Plus i4 Digital Input Controller</a> [pdf] User Guide Shelly Plus i4 Digital Input Controller, Shelly Plus i4, Digital Input Controller, Input Controller, Controller</p>
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## References

- [Shelly - Shelly](#)
- [Shelly Cloud](#)
- [Shelly Cloud](#)
- [Welcome to Shelly Technical Documentation | Shelly Technical Documentation](#)
- [Shelly Plus i4](#)
- [Shelly Smart Control](#)
- [Shelly - Shelly](#)