

USER AND SAFETY GUIDE

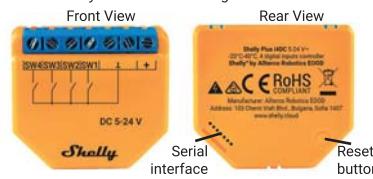
smart switch

SHELLY PLUS I4DC

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.



Product Introduction

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 Android or iOS mobile application, or with any internet browser at <https://home.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 embedded Web Interface accessible at <http://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 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>. Shelly® devices are delivered with factory-installed firmware. If firmware updates are necessary to keep the devices in conformity, including security updates, Allterco Robotics EOOD will provide the updates free of charge through the device embedded Web Interface or Shelly Mobile Application, where the information about the current firmware version is available. The choice to install or not the device firmware updates is user's sole responsibility. Allterco Robotics EOOD 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.

Control your home with your voice

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

Schematics

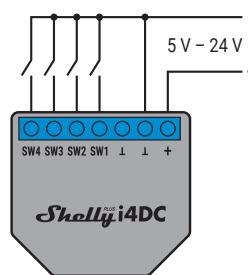


fig. 1

Legend

- +: Positive terminal / wire
- -: Negative terminal
- -: Negative wire
- SW1, SW2, SW3, SW4: Switch terminals

Installation Instructions

Shelly® Plus I4DC (the Device) is a DC powered 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! Mounting/installation of the Device has to be performed with caution, by a qualified electrician.

CAUTION! Danger of electrocution. Make sure the voltage at the wires is not higher than 24 VDC. Use only stabilized voltage to power supply the Device.

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

CAUTION! Use the Device only with a power grid and ap-

pliances which comply with all applicable regulations. A short circuit in the power grid or any appliance connected to the Device may damage the Device.

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 at a place that is possible to get wet.

Connect a switch or a button to a SW terminal of the Device and the Negative wire as shown on fig. 1.

Connect the Negative wire to a - terminal and the Positive wire to a + terminal of the Device.

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

Troubleshooting

In case you encounter problems with the installation or operation of Shelly® Plus I4, please check its knowledge base page:

<https://shelly.cloud/knowledge-base/devices/shelly-plus-i4dc>

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 help.

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.

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.

Specifications

- Power supply: 5 - 24 VDC (stabilized)
- Dimensions (HxWxD): 42x37x17 mm
- Working temperature: -20°C to 40°C
- Max altitude: 2000 m
- Electrical consumption: < 1 W
- Multi-click support: Up to 12 possible actions (3 per button)
- Wi-Fi: Yes
- Bluetooth: Yes
- Max RF output power (Wi-Fi): 20 dBm
- Radio protocol: Wi-Fi 802.11 b/g/n
- Frequency Wi-Fi: 2412-2472 MHz; (Max. 2495 MHz)
- Operational range (depending on terrain and building structure): up to 50 m outdoors, up to 30 m indoors
- Bluetooth: v4.2
- Bluetooth modulation: GFSK
- Frequency Bluetooth: TX/RX: 2402- 2480 MHz (Max. 2483.5MHz)
- Max RF output power (Bluetooth): 5 dBm
- Scripting (mjs): Yes
- MQTT: Yes
- Webhooks (URL actions): 20 with 5 URLs per hook
- CPU: ESP32
- Flash: 4 MB

Declaration of conformity

Hereby, Allterco Robotics EOOD declares that the radio equipment type Shelly Plus i4DC 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-i4dc>

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

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