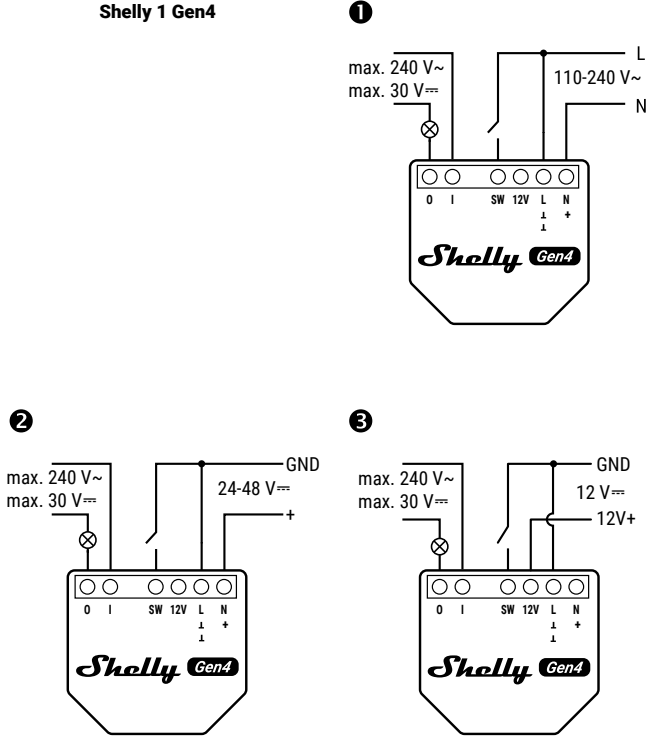


Shelly 1 Gen4



English

Wiring diagram

Fig. 1. 110-240 V~ – power supply
Fig. 2. 24-48 V~ – power supply
Fig. 3. 12 V~ stabilized power supply

Legend

Device terminals

- **O**: Load circuit output terminal
- **I**: Load circuit input terminal
- **SW**: Switch input terminal (controlling O)
- **+12V**: 12 V~ positive terminal
- **L**: Live terminal (110-240 V~)
- **N**: Neutral terminal
- **+**: 24-48 V~ positive terminal
- **-**: 12/24-48V~ ground terminal

Wires

- **L**: Live wire (110-240 V~)
- **N**: Neutral wire
- **+**: 12/24-48V ~ positive wire
- **GND**: 12/24-48V~ ground wire



English

User and safety guide

Shelly 1 Gen4

Smart switch with potential-free contacts

Referred to in this document as "the Device"

Safety information

For safe and proper use, read this guide, and all other documents accompanying this product. Keep them for future reference. Failure to follow the installation procedures can lead to malfunction, danger to health and life, violation of law, and/or refusal of legal and commercial guarantees (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 to follow the user and safety instructions in this guide.

⚠ This sign indicates safety information.
⚠ This sign indicates an important note.

⚠WARNING! Risk of electric shock. Installation of the Device to the power grid must be performed carefully by a qualified electrician.

⚠WARNING! Before installing the Device, turn the circuit breakers off. Use a suitable test device to make sure there is no voltage on the wires you want to connect. When you are sure there is no voltage, proceed to the installation.

⚠WARNING! Before making any changes to the connections, ensure there is no voltage present at the Device terminals.

⚠CAUTION! Connect the Device only to 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 can cause fire, property damage, and electric shock.

⚠CAUTION! The Device may be connected to and control only electric circuits and appliances that comply with the applicable standards and safety norms.

⚠CAUTION! Do not connect the Device to appliances that exceed the specified maximum electric load.

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

⚠CAUTION! The Device and the appliances connected to it, must be secured by a cable protection switch in accordance with EN60898-1 (tripping characteristic B or C, max. 16 A rated current, min. 6 kA interrupting rating, energy limiting class 3).

⚠CAUTION! Do not use the Device if it shows any sign of damage or defect.

⚠CAUTION! Do not attempt to repair the Device yourself.

⚠CAUTION! The Device is intended only for indoor use.

⚠CAUTION! Keep the Device away from dirt and moisture.

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

Product description

Shelly 1 Gen4 is a Matter-compatible smart switch with potential-free contacts. Equipped with a multi-protocol wireless MCU, it supports Zigbee and Bluetooth connectivity for a secure connection. The Device operates on both AC and DC power. Its small form factor allows retrofitting into standard electrical wall boxes, behind power sockets, light switches, or other places with limited space.

The Device has an embedded web interface to monitor, control, and adjust its settings. The web interface is accessible at <http://192.168.33.1> when connected directly to the Device access point or at its IP address when accessed from the same network.

The Device can access and interact with other smart devices

1

2

3

Keep the QR code for future reference. If you reset the device, you will need that code again.

Specifications

Physical

- Size (HxWxD): 37x42x16 mm / 1.46x1.65x0.63 in
- Weight: 26 g / 0.92 oz
- Screw terminals max torque: 0.4 Nm / 3.5 lbin
- Conductor cross section: 0.2 to 2.5 mm² / 24 to 14 AWG (solid, stranded, and bootlace ferrules)
- Conductor stripped length: 6 to 7 mm / 0.24 to 0.28 in
- Mounting: Wall console / In-wall box
- Shell material: Plastic
- Shell color: Blue

Environmental

- Ambient working temperature: -20°C to 40°C / -5°F to 105°F
- Humidity: 30% to 70% RH
- Max. altitude: 2000 m / 6562 ft

Electrical

- Power supply:
 - 110-240 V~
 - 24-48 V~
 - 12 V~
- Power consumption: < 1.2 W

Output circuits ratings

- Max. switching voltage:
 - 240 V~
 - 30 V~
- Max. switching current:
 - 16 A (240 V~)
 - 10 A (30 V~)

Sensors, meters

- Internal-temperature sensor: Yes

Radio

Wi-Fi

- Protocol: 802.11 b/g/n
- RF band: 2401-2483 MHz
- Max. RF power: < 20 dBm
- Range: Up to 50 m / 164 ft outdoors, up to 30 m / 98 ft indoors (depending on local conditions)

Bluetooth

- Protocol: 4.2
- RF band: 2400 - 2483.5 MHz
- Max. RF power: < 4 dBm
- Range: Up to 30 m / 98 ft outdoors, up to 10 m / 33 ft indoors (depending on local conditions)

Zigbee

- Protocol: 802.15.4
- RF band: 2400 to 2483.5 MHz
- Max. RF power: < 20 dBm
- Range: Up to 100 m / 328 ft indoors and 300 meters / 984 ft outdoors (depends on local conditions)

Microcontroller unit

- CPU: ESP-Shelly-C68F
- Flash: 8 MB

Firmware capabilities

- Schedules: 20
- Webhooks (URL actions): 20 with 5 URLs per hook
- Wi-Fi range extender: Yes
- BLE Gateway: Yes
- Scripting: Yes
- MQTT: Yes
- Encryption: Yes

Shelly Cloud inclusion

The Device can be monitored, controlled, and set up through our Shelly Cloud home automation service. You can use the service through either our Android, iOS, or Harmony OS mobile application or through any internet browser at <https://control.shelly.cloud/>.

If you choose to use the Device with the application and Shelly Cloud service, you can find instructions on how to connect the Device to the Cloud and control it from the Shelly app in the application guide: <https://shelly.link/app-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.

Troubleshooting

In case you encounter problems with the installation or operation of the Device, check its knowledge base page: https://shelly.link/1_Gen4

Declaration of Conformity

Hereby, Shelly Europe Ltd. declares that the radio equipment type Shelly 1 Gen4 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/1_Gen4_DoC

Manufacturer: Shelly Europe Ltd.
Address: 51 Chermi Vrah Blvd., bldg. 3, fl. 2-3, Sofia 1407, Bulgaria
Tel.: +359 2 988 7435
E-mail: support@shelly.cloud

Official website: <https://www.shelly.com>

Changes in contact information are published by the Manufacturer on the official website.

All rights to the trademark Shelly® and other intellectual rights associated with this Device belong to Shelly Europe Ltd.