

User and safety guide Shelly i4 Gen3

Smart 4-channel switch input

Safety information

For safe and proper use, read this guide, and any 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.

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

&CAUTION! The Device 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! Do not install the Device where it may get wet.

&CAUTION! Do not use the Device in a damp environment. Do not allow the device to get wet.

&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.

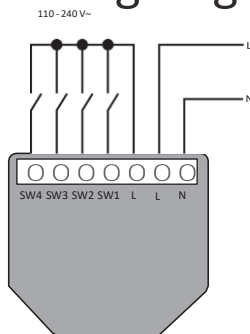
Product description

Shelly i4 Gen3 (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. Compared to its predecessor, the device also has an improved processor and increased memory. The Device has an embedded web interface used to monitor, control, and adjust the Device. The web interface is accessible at <http://1192.168.33.1> when connected directly to the Device access point or at its IP address when you and the Device are connected to the same network.

The Device can access and interact with other smart devices or automation systems if they are in the same network infrastructure. Shelly Europe Ltd. provides APIs for the devices, their integration, and cloud control. For more information, visit <https://shelly-api-docs.shelly.cloud>.

<D The Device comes with factory-installed firmware. To keep it updated and secure, Shelly Europe Ltd. provides the latest firmware updates free of charge. Access the updates through either the embedded web interface or the Shelly Smart Control mobile application. Installation of firmware updates is the user's responsibility. Shelly Europe Ltd. shall not be liable for any lack of conformity of the Device caused by the failure of the user to install the available updates in a timely manner.

Wiring diagram



Legend

Device terminals

- SW1, SW2, SW3, SW4: Switch input terminal
- L: Live terminal (110-240 V~)
- N: Neutral terminal Wires
- L: Livewire (110-240V~)
- N: Neutral wire

Installation instructions

<D To connect the Device, we recommend using solid single-core wires or stranded wires with ferrules. The wires should have insulation with increased heat resistance, not less than PVC T105°C(221°F).

<D Do not use buttons or switches with built-in LED or neon glow lamps.

<D When connecting wires to the Device terminals, consider the specified conductor cross section and stripped length. Do not connect multiple wires into a single terminal.

<D For security reasons, after you successfully connect the Device to the local Wi-Fi network, we recommend that you disable or password-protect the Device AP (Access Point).

<D To perform a factory reset of the Device, press and hold the Control button for 10 seconds.

<D To enable the access point and the Bluetooth connection of the Device, press and hold the Control button for 5 seconds

<D Make sure that the Device is up-to-date with the latest firmware version. To check for updates, go to Settings > Firmware. To install the updates, connect the Device to your local Wi-Fi network. For more details, see <https://shelly.link/wig>.

<D Do not use L terminal(s) of the device to power other devices

1. Connect a switch or a button to a SW terminal of the Device and the Live wire as shown in section Wiring diagrams.
2. Connect the Live wire to the L terminal and the Neutral wire to the N terminal.

Specifications

Physical

Size (HxWxD):

37x42x17 mm / 1.46x1.65x0.66 in Weight 18 g / 0.63 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

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
- Power supply: 110 - 240 V~ 50/60 Hz
- Power consumption: < 1 W
- Sensors, meters: Yes
- Internal-temperature sensor: Yes
- Radio: Yes

Wi-Fi

Protocol: 802.11 b/g/n

RF band: 2401 • 2483 MHz Max. RF power: < 20 dBm

Range: Up to 50 m / 165 ft outdoors, up to 30 m / 99 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 / 100 ft outdoors, up to 10 m / 33 ft indoors (depending on local conditions)

Microcontroller unit

- CPU: ESP-Shelly-C38F
- Flash: 8 MB
- Firmware capabilities: Webhooks (URL actions): 20 with 5 URLs per hook
- Scripting: Yes
- MQTT: Yes
- Encryption: Yes
- Shelly Cloud inclusion: Yes

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/i4_Gen3

Declaration of Conformity

Hereby, Shelly Europe Ltd. declares that the radio equipment type Shelly i4 Gen3 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/i4_Gen3_DoC Manufacturer:

Shelly Europe Ltd.

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

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