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## Shelly 1L Gen3 Bypass Switching Module Instruction Manual



## Specifications

- Product Name: Shelly 1L Gen3
- Input Voltage: 230 V~

- Features: One-channel smart switch for lighting control without Neutral
- Control: Can be monitored, controlled, and set up through the Shelly Cloud home automation service

## **Product Usage Instructions**

### **Safety Information:**

Before starting the installation process, please read and understand the safety information provided in the user manual.

- Installation must be done by a qualified electrician to avoid the risk of electric shock.
- Ensure there is no voltage present at the Device terminals before making any changes to connections.
- Connect the Device only as per the instructions provided to prevent damage or injury.
- Turn off circuit breakers before installing the Device and use a suitable test device to check for voltage.
- Do not use the Device if it is damaged or defective.
- The Device is intended for indoor use only. Keep it away from dirt and moisture.

### **Installation Instructions:**

1. Connect the load to the O terminal of the Device and the Neutral wire as shown in the wiring diagram.
2. Connect the Shelly Bypass (provided in the package) in parallel to the load (mandatory, except for incandescent lights).
3. Connect the Live wire to the L terminal.
4. Connect the first switch or button to the S1 and Sx terminals.
7. Connect the second switch or button to the S2 and Sx terminals.

### **Wiring diagram Legend**

## Device terminals

- L: Live (220-240 V~) terminal
- O: Load circuit output terminal
- S1, S2: Switch input terminals
- Sx: Switch signal output terminal Wires
- L: Live wire (220-240 V~)
- N: Neutral wire

Fig. 1  
Abb. 1

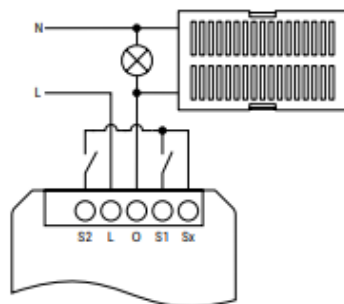
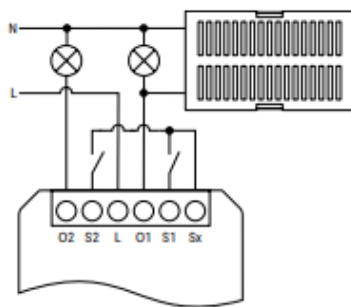


Fig. 2  
Abb. 2



## Installation instructions

- 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).
  - When connecting wires to the Device terminals, consider the specified conductor cross-section and stripped length. Do not connect multiple wires to a single terminal.
  - Connect the load to the O terminal of the Device and the Neutral wire as shown in the wiring diagram.
1. Connect the Shelly Bypass, provided in the package, in parallel to the load (mandatory, except for incandescent lights).

2. Connect the Live wire to the L terminal.
3. Connect the first switch or button to the S1 and Sx terminals.
4. Connect the second switch or button to the S2 and Sx terminals.

## Specifications

- Size (HxWxD): 37x42x16  $\pm 0.5$  mm / 1.46x1.65x0.63  $\pm 0.02$  in
- Weight: 24 g / 0.85 oz
- Screw terminals max torque: 0.4 Nm / 3.5 lbin
- Conductor cross section: 0.2 to 2.5 mm<sup>2</sup> / 24 to 14 AWG (solid, stranded, and bootlace ferrules)
- Conductor stripped length: 6 to 7 mm / 0.24 to 0.28 in
- Mounting: In-wall
- Shell material: Plastic
- Shell color: Cyan
- Ambient working temperature: -20°C to 40°C / -5°F to 105°F
- Storage temperature: 10°C to 40°C
- Humidity: 30% to 70% RH
- MMax.altitude: 2000 m / 6562 ft

## Electrical

- Power supply: 220-240 V~ 50 Hz (Shelly Bypass is required)
- Shelly Bypass included: Yes
- Power consumption: < 1.2 W
- Neutral not needed: Yes (Shelly Bypass is required for the load at O)
- Min. load without neutral and without a Bypass: · Bypass is required for the load at O, except for incandescent lights.
- External protection: 10 A, tripping characteristic B or C, 6 kA interrupting rating, Energy limiting class 3

## Output circuits ratings

- Max. switching voltage: 240 V~
- Max. switching power: 200 W

- Internal-temperature sensor: Yes

## **Radio Wi-Fi**

- Protocol: 802.11 b/g/n
- RF band: 2401 – 2495 MHz
- Max. RF power: < 20 dBm
- Range: Up to 30 m / 98 ft indoors and 50 m / 164 ft outdoors (Depends on local conditions)

## **Bluetooth**

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

## **Microcontroller unit**

- CPU: ESP-Shelly-C38F
- Clock frequency: 160 MHz
- RAM: 512 KB
- Flash: 8 MB

## **Firmware capabilities**

- Schedules: 20
- Webhooks (URL actions): 20 with 5 URLs per hook
- Scripting: Yes
- MQTT: 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>.

## Troubleshooting

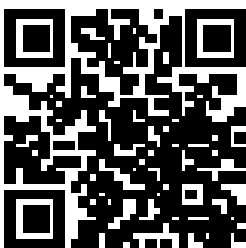
In case you encounter problems with the installation or operation of the Device, check its knowledge base page: [https://shelly.link/1L\\_Gen3](https://shelly.link/1L_Gen3).

## Declaration of Conformity

- Hereby, Shelly Europe Ltd. declares that the radio equipment type Shelly 1L Gen3 complies with Directive 2014/35/EU, 2014/30/EU, 2011/65/EU, and 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: [https://shelly.link/1L\\_Gen3\\_DoC](https://shelly.link/1L_Gen3_DoC)
- Manufacturer: Shelly Europe Ltd.
- Address: 51 Cherni Vrah Blvd., bldg. 3, fl. 2-3, 1407 Sofia, Bulgaria
- Tel.: +359 2 988 7435
- E-mail: [support@shelly.cloud](mailto: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.

For the UK PSTI Act Statement of Compliance, scan the QR code.



## FAQS

- **Q: How can I control the Device?**


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

- **Q: What should I do if I encounter problems with installation or operation?**

A: Check the knowledge base page at [https://shelly.link/1L\\_Gen3](https://shelly.link/1L_Gen3) for troubleshooting tips and solutions.

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

## Documents / Resources

	<a href="#">Shelly 1L Gen3 Bypass Switching Module [pdf]</a> Instruction Manual 1L Gen3 Bypass Switching Module, Bypass Switching Module, Switching Module, Module
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## References

- [User Manual](#)

📎 1L Gen3 Bypass Switching Module, Bypass Switching Module, Module, Shelly, Switching

📁 Shelly    Module

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