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# SHELLY 2L Gen3 Two Channel Smart Switch Tailored User Guide

May 15,  
2025

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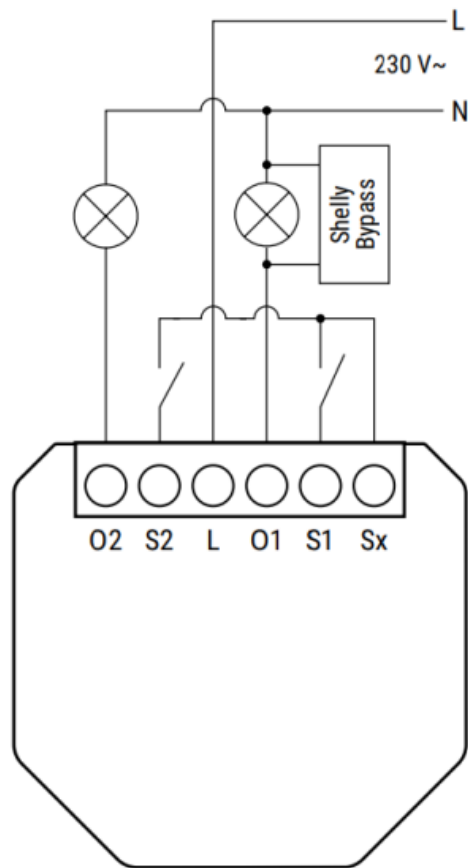
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## Shelly 2L Gen3



## Wiring diagram

### Legend

## Device terminals

- **O2**: Load circuit output terminal 2
- **S2**: Switch input terminal 2
- **L**: Live (220-240 V~) terminal
- **O1**: Load circuit output terminal 1
- **S1**: Switch input terminal 1
- **Sx**: Switch signal output terminal

## Wires

- **L**: Live wire (220-240V~)
- **N**: Neutral wire

## User and safety guide

## Two-channel smart switch for lighting control without Neutral

## 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.



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



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



**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 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).



**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.



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



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



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



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

## Product description

Shelly 2L Gen3 (the Device) is a compact, dual channel smart switch. A standout feature of this device is that it doesn't require a Neutral wire to operate. However, it needs a Shelly Bypass connected in parallel to the load at the first channel. Shelly 2L Gen3 allows users to effortlessly control resistive, inductive, and capacitive loads through a mobile phone, tablet, PC, or integrated home automation system. It is convenient for managing lighting setups, electric heaters, transformers, fans, generators, etc.

The device can function standalone within a local Wi-Fi network or can be integrated with cloud home automation services. As long as the device remains connected to a Wi-Fi router and the Internet, users gain the flexibility to access, control, and monitor their configurations from virtually anywhere.

Designed with adaptability in mind, Shelly 2L Gen3 is engineered to snugly fit within standard electrical wall boxes, be discreetly placed behind light switches, or in other areas where space might be a limiting factor. An added benefit is its embedded Web Interface, which allows users to fine-tune the Device settings with ease.

This device is Matter ready, this functionality can be added with firmware update.

## 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 into a single terminal.

1. Connect the first load (up to 1,2 A) to the O1 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 first load (mandatory, except for incandescent lights).
3. Connect the second load to the O2 terminal and the Neutral wire.
4. Connect the first switch or button to the S1 and Sx terminals.

5. Connect the second switch or button to the S2 and Sx terminals.
6. Connect the Live wire to the L terminal.

## **Specifications**

- Size (HxWxD): 37x42x16  $\pm 0.5$  mm / 1.46x1.65x0.63  $\pm 0.02$  in
- Weight: 28 g / 1 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
- Max. altitude: 2000 m / 6562 ft
- Power supply: 220-240 V~ 50 Hz (Shelly Bypass is required for the load at O1)
- Shelly Bypass included: Yes
- Power consumption: < 1.2 W
- Neutral not needed: Yes (Shelly Bypass is required for the load at O1)
- Min. load without neutral and without a Bypass: · Bypass is required for the load at O1, except for incandescent lights.
- Max. switching voltage: 240 V~
- Max. switching power:
  - 200 W through O1
  - 700 W through O2
- Internal-temperature sensor: Yes

## **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)
- CPU: ESP-Shelly-C38F
- Clock frequency: 160 Mhz
- RAM: 512 KB
- Flash: 8 MB
- 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/2L\\_Gen3](https://shelly.link/2L_Gen3)

## **Declaration of Conformity**

Hereby, Shelly Europe Ltd. declares that the radio equipment type Shelly 2L Gen3 is in com-

pliance 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/2L\\_Gen3\\_DoC](https://shelly.link/2L_Gen3_DoC)

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**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 UK PSTI Act Statement of Compliance scan the QR code



# Documents / Resources

	<a href="#">SHELLY 2L Gen3 Two Channel Smart Switch Tailored [pdf]</a> User Guide O1, O2, 2L Gen3 Two Channel Smart Switch Tailored, 2L, Gen3 Two Channel Smart Switch Tailored, Two Channel Smart Switch Tailored, Smart Switch Tailored, Switch Tailored, Tailored
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## References

- [🌐 Shelly Control](#)
- [🔗 Shelly Smart Control guide](#)
- [User Manual](#)

📁 Shelly

📁 2L, 2L Gen3 Two Channel Smart Switch Tailored, Gen3 Two Channel Smart Switch Tailored, O1, O2, Shelly, Smart Switch Tailored, Switch Tailored, Tailored, Two Channel Smart Switch Tailored

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[Shelly 2L Gen3 Switching Module User Guide](#)

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