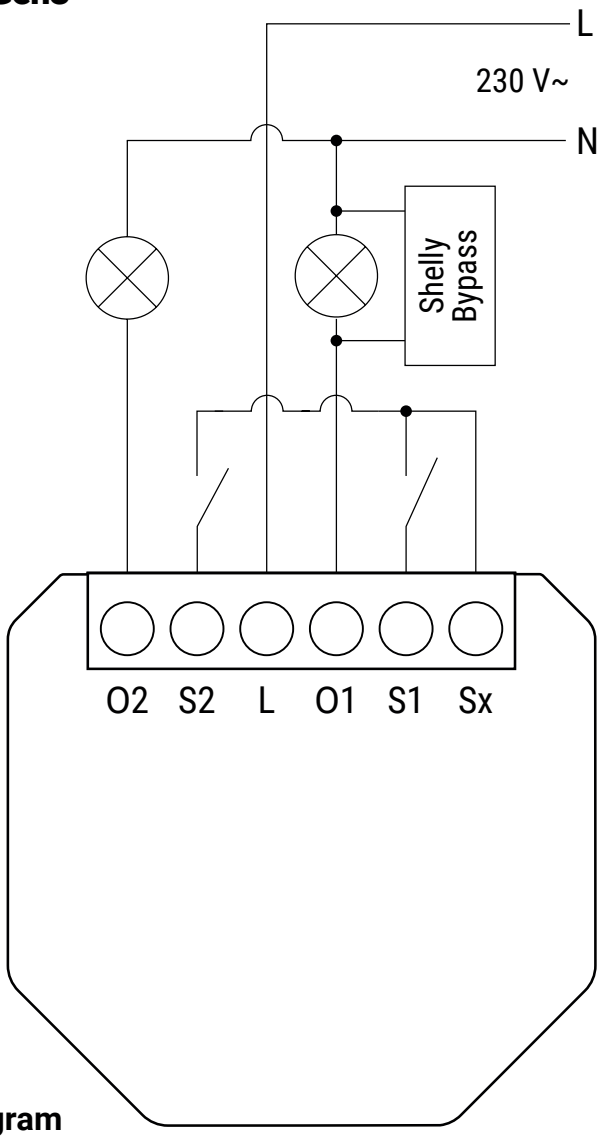
## Shelly 2L Gen3




## 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
# Shelly 2L Gen3
## 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 ±0.5 mm / 1.46x1.65x0.63 ±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 mm² / 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**

## Declaration of Conformity

Hereby, Shelly Europe Ltd. declares that the radio equipment type Shelly 2L 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/2L_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**
**Official website:** **https://www.shelly.com**
Changes in contact information are published by the Manufacturer on the official website.

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**Warnings and safety information**

All information regarding the use of the product can be found in the user manual. Before using it, read its contents and follow the instructions contained therein.

**Also read the following information before use:**

**Warnings for use**

**Hazard to children:**

●The product is not intended for children and is not intended for play.

●The controls may contain small parts that pose a choking hazard.

●Keep the device out of the reach of children and ensure that they do not have access to any small parts.

**Risk of electric shock:**

●Control devices connected to the power supply should be installed by a qualified professional in accordance with the operating instructions.

●Ensure that the unit is disconnected from the power source before installation or maintenance.

●Use only original or manufacturer-recommended power supplies, cables and other components.

●Do not handle the equipment with wet hands to avoid electric shock.

**Risk of damage to the equipment:**

●Avoid installing the controls in areas exposed to moisture, extreme temperatures or direct sunlight unless they are rated for such conditions.

●Do not attempt to open or modify the control devices yourself to avoid damaging electronic components and voiding the warranty.

●Do not expose the devices to impacts, falls, strong shocks or other factors that may damage them.

**Risk of misuse:**

●Ensure that the control devices are used in accordance with their intended use and the manufacturer's recommendations.

●If the devices are integrated into a smart home system, ensure that they are correctly configured in the control application to avoid operating errors.

●For devices with built-in buttons, avoid excessive pressure that could damage the internal mechanisms.

**Wireless connectivity**

**Data protection:**

●Control devices often use Wi-Fi, Zigbee, Bluetooth or other communication technologies. Secure them with a password and, if possible, enable connection encryption to prevent unauthorised access.

●Regularly update the software of devices and associated control applications to protect data from unauthorised access.

●Avoid using public Wi-Fi networks to manage control devices to increase data security.

**Access management:**

●Restrict access to applications and control devices to trusted users only.

●Regularly review the list of devices connected to the system and remove those that are no longer in use or may pose a potential threat.

●For devices with remote control functionality, use the notification function for unauthorised access attempts where possible.

**Information on correct use**

**Installation and configuration:**

●Before installation, ensure that the control device is compatible with the system in which it is to operate and with other devices in the smart home network.

●If the device needs to be installed in a wall, make sure the installation location is dry, safe and in accordance with the operating instructions.

●Check that the devices are mounted in a location that provides a stable connection to the network.

**Maintenance and cleaning:**

●Regularly check the control devices for visible damage, such as cracks in the housing, damaged wires or dirty contacts.

●Clean the devices with a soft, dry cloth. Do not use water or chemicals that may damage their electronics.

●For battery-powered devices, regularly check the condition of the batteries and replace them according to the manufacturer's recommendations.

●For battery-powered devices, regularly check the charge level and charge them according to the manufacturer's recommendations.

**Safety of use:**

●If the device operates unstably (e.g. flashing indicators, unresponsive to commands), immediately disconnect it from the power supply and contact the manufacturer or service centre.

**Additional precautions**

**Service and repair:**

●If you have any problems with the unit, contact an authorised service centre.

●Do not attempt to repair the controls yourself to avoid further damage or loss of warranty.

**Safe disposal:**

●Dispose of used devices in accordance with local electronic waste regulations.

●Do not dispose of the device in municipal waste - take it to an electronics collection point.

If you require any further information about the product, please contact customer service (e-mail: hurt@innpro.pl, website: https://innpro.pl/) or any other specialist.

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