



Knowledge Base / Devices / Shelly Gen3 devices

Shelly 2L Gen3



Device identification

- Device name: **Shelly 2L Gen3**
- Device model: **S3SW-0A2X4EUL**
- Device SSID: **Shelly2LG3-XXXXXXXXXXXX**
- Device Bluetooth ID: **0x1013**

Short description

Shelly 2L Gen3 (the Device) is a compact, two-channel smart switch tailored for precise lighting control. A standout feature of this device is that it doesn't require a Neutral wire to operate. However, it needs a Shelly Bypass 1L/2L Gen3 connected in parallel to the load at the first channel. Shelly 2L Gen3 allows users to effortlessly control their lighting setups through a mobile phone, tablet, PC, or integrated home automation system.

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 lighting 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 not only monitor and control their lighting but also to fine-tune the Device settings with ease.

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

Main features

- **Perfect to retrofit!** No need for a neutral wire. You can power and control your light, or other appliances using just a live wire, with no necessity to connect a neutral wire to the device.
- **2 channels!** Now you can fit it to control 2 separate lights.
- **Minimum bulb watts.** The device requires a Bypass 1L/2L Gen3 to be installed next to the light, however, that allows it to control bulbs greater than 5W.
- **Wi-Fi Connectivity:** Shelly 2L Gen3 connects to your home Wi-Fi network, allowing you to control it remotely through the Shelly mobile app or other smart home platforms.
- **Remote Control:** You can remotely control the connected device or appliance from anywhere with an internet connection using the Shelly app on your smartphone or tablet.
- **Voice Control:** If integrated with voice assistants like Amazon Alexa or Google Assistant, you can control the device using voice commands.
- **Scheduling and Automation:** Shelly 2L Gen4 supports scheduling and automation, enabling you to set timers and create routines for your connected devices. For example, you can schedule lights to turn on and off at specific times.
- **Compatibility:**
 - It is designed and tested to ensure compatibility with wide range of lights.
 - It is designed to work with wide ranges of voltages - 220-240 VAC
- **Compact Design:** Shelly 2L Gen3 has a compact design, allowing it to fit into electrical boxes or behind switches without taking up much space.
- **Protection:** Internal temperature sensor for overheating protection
- **Local and Remote Access:** You can control your devices both locally when connected to the same Wi-Fi network and remotely when you're away from home.

- **OTA Updates:** Shelly devices often receive over-the-air (OTA) firmware updates to enhance functionality and security.
- **Compatibility with Smart Home Ecosystems:** Shelly 2L Gen3 may be compatible with various smart home ecosystems and platforms, such as MQTT, Home Assistant, and more, making it a versatile choice for building a smart home.

Main applications

- Residential
- MDU (Multi Dwelling Units - apartments, condominiums, hotels, etc.)
- Light commercial (small office buildings, small retail/restaurant/gas station, etc.)
- Government/municipal
- University/college

Integrations

Amazon Alexa supported capabilities

- Toggle Controller

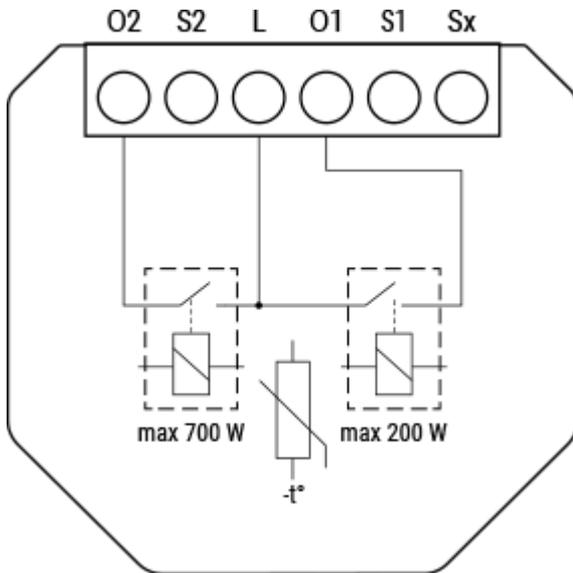
Google Smart Home supported traits

- On Off

Samsung SmartThings supported capabilities

- Switch

Simplified internal schematics



Device electrical interfaces

Inputs

- 2 switch/button inputs on screw terminals: S1 and S2
- 1 power supply input on screw terminal: L

Outputs

- 1 switch/button signal output on screw terminal: Sx
- 2 relay outputs on screw terminals: O1 and O2

Connectivity

- Wi-Fi
- Bluetooth

Safety function

- Overheating protection

Supported load types

- Output 1:
 - Incandescent lights*
 - LED lights*

*without step-down transformers for lower-voltage lights

- Output 2:
 - Incandescent lights
 - LED lights
 - Fluorescent lights
 - Fans

User interface

Inputs

- One (Control) button
 - Press and hold for 5 seconds to enable Device access point and Bluetooth connection.
 - Press and hold for 10 seconds to factory reset the Device.

Outputs

- LED (monocolor) indication
 - AP (Access Point) enabled and Wi-Fi disabled:
1 second ON / 1 second OFF
 - Wi-Fi enabled, but not connected to a Wi-Fi network:
1 second ON / 3 seconds OFF

- Connected to a Wi-Fi network:
Constantly ON
- Cloud is enabled, but not connected:
1 second ON / 5 seconds OFF
- Connected to Shelly Cloud:
Constantly ON
- OTA (Over the Air Update):
½ sec ON / ½ second OFF
- Button pressed and held for 5 seconds:
½ second ON / ½ second OFF
- Button presses and held for 10 seconds:
¼ second ON / ¼ second OFF

The list above starts with the initial device status and the lowest priority. Every next state cancels the previous one.

Specifications



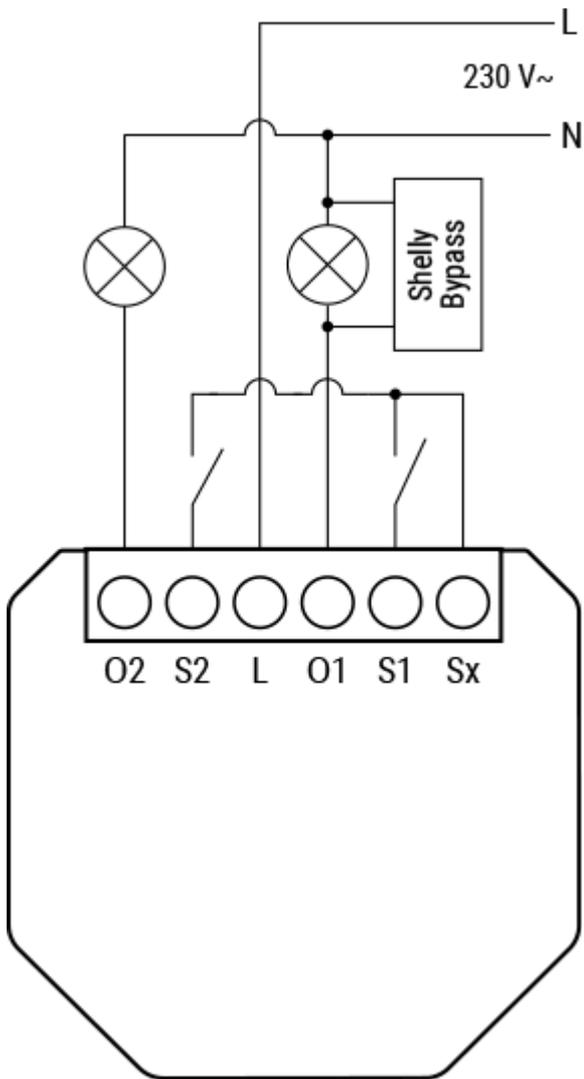
Quantity	Value
Physical	
Size (HxWxD):	37x42x16 ±0.5 mm / 1.46x1.65x0.63 ±0.02 in
Weight:	28 g / 1 oz
Screw terminals max torque:	0.4 Nm / 3.5 lbin
Conductor cross section:	0.2 to 2.5 mm ² / 24 to 14 AWG (solid, stranded, and bootlace ferrules)
Conductor stripped length:	6 to 7 mm / 0.24 to 0.24 in
Mounting:	In-wall

Shell material:	Plastic
Shell color:	Cyan
Terminal color:	Black
Environmental	
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
Electrical	
Power supply:	220-240 V~, 50Hz (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:	No (Shelly Bypass for 1L/2L is required for the load at O1), for all LED lights. No, Bypass is not needed for incandescent lights.
Output circuits ratings	
Max. switching voltage:	240 V~
Max. switching power:	<ul style="list-style-type: none"> • 200 W through O1 • 700 W through O2

Sensors, meters	
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 / 100 ft indoors and 50 m / 160 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 / 100 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

Basic wiring diagram



Legend



Terminals	Wires
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S1	Switch input terminal 1	L	Live (220-240 V~) wire
S2	Switch input terminal 2	N	Neutral wire
Sx	Switch signal output terminal		
L	Live (220-240 V~) terminal		
O1	Load circuit output terminal 1		
O2	Load circuit output terminal 2		

Troubleshooting

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Web Interface guide

[Read the Shelly 2L Gen3 web interface guide](#)

Components and APIs

- [This device](#)
- [All Shelly devices and services](#)

Compliance

- [Shelly 2L Gen3 multilingual EU declaration of conformity.pdf](#)
- [Shelly 2L Gen3 UK PSTI ACT Statement of compliance.pdf](#)

Printed user guide

- [Shelly 2L Gen3 multilingual printed user and safety guide.pdf](#)

Installation guides



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