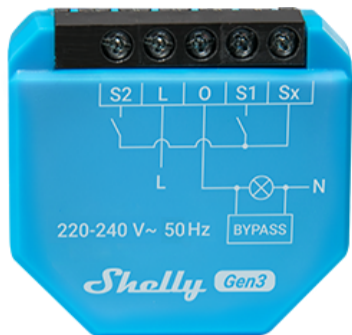


Shelly 1L Gen3



Device identification

- Device name: **Shelly 1L Gen3**
- Device model: **S3SW-0A1X1EUL**
- Device SSID: **Shelly1LG3-XXXXXXXXXXXX**
- Device Bluetooth ID: **0x1014**

Short description

Shelly 1L Gen3 (the Device) is a compact smart switch tailored for 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. You can conveniently manage your lighting through a mobile phone, tablet, PC, or 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 Shelly 1L Gen3 is connected to a Wi-Fi router and the Internet, users can access, control, and monitor it from anywhere.

Designed with adaptability in mind, Shelly 1L 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.
- **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 1L 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 1L Gen3 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 1L 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 1L 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.
- **New features as compared with the old Shelly 1L:** All of the new features coming with the new Shelly devices - Scripting support, HTTPS, MQTTS, Inbound and Outbound Web Sockets.

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

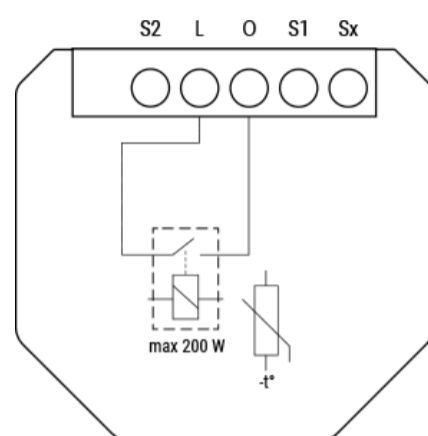
Google Smart Home supported traits

- 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
- 1 relay output on screw terminal: O

Connectivity

- Wi-Fi
- Bluetooth

Safety function

- Overheating protection

Supported load types

- Incandescent lights*
- LED lights*

*without step-down transformers for lower-voltage lights

User interface

Inputs

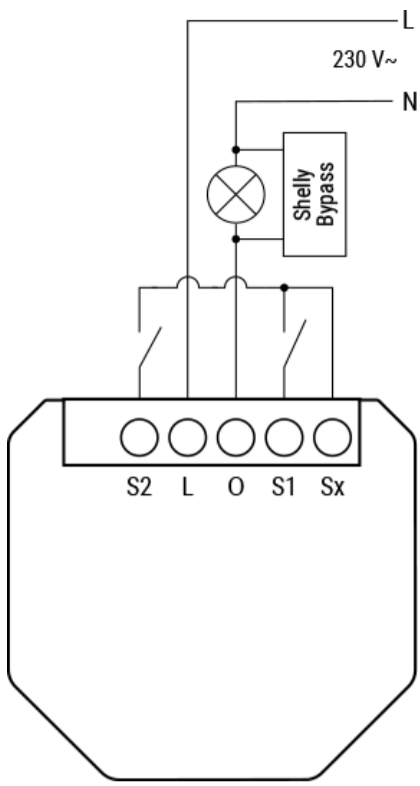
- One (Control) button
 - Press and hold for 5 seconds to enable Device access point and Bluetooth connection.
 - Press and hold for 10 seconds to factory reset the Device.

Specifications

Quantity	Value
Physical	
Size (HxWxD):	37x42x16 ±0.5 mm / 1.46x1.65x0.63 ±0.02 in
Weight:	24 g / 0.85 oz
Screw terminals max torque:	0.4 Nm / 3.5 lbin
Conductor cross section:	0.5 to 4 mm ² / 20 to 11 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
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)
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:	No (Shelly Bypass is required for the load at O), for all LED lights. No, Bypass is not needed 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~ 50 Hz
Max. switching power:	200 W

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

Shelly Smart Control

- [Adding the device to the Shelly Smart Control](#)

Troubleshooting

...

Components and APIs

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

Compliance and certification

- [Shelly 1L Gen3 multilingual EU declaration of conformity 2025-07-22.pdf](#)
- [Shelly 1L Gen3 UK PSTI ACT Statement of compliance.pdf](#)

Compliance archive

[Shelly 1L Gen3 multilingual EU Declaration of Conformity 82 09.04.2025.pdf](#)

Printed user guide

- [Shelly 1L Gen3 multilingual printed user and safety guide.pdf](#)