



Gen3 Shelly Smart Dimming Controller Instruction Manual

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Gen3 Shelly Smart Dimming Controller



Specifications

- **Product:** Shelly Dimmer Gen3
- **Smart** dimming controller
- **Dimmable LED lamps:** up to 150 W
- **Incandescent bulbs:** up to 200 W
- **Halogen lamps:** up to 200 W
- **Iron-core transformer** with low-voltage incandescent

Product Usage Instructions

With Neutral

1. Connect the Live wire to the Device L terminal and the Neutral wire to the N terminal.
2. Connect the load to the Device output terminal O and the Neutral wire as shown in the wiring diagram.
3. Connect switches or buttons to the Device S1 and S2 terminals and the Live wire.

Without Neutral, with Bypass

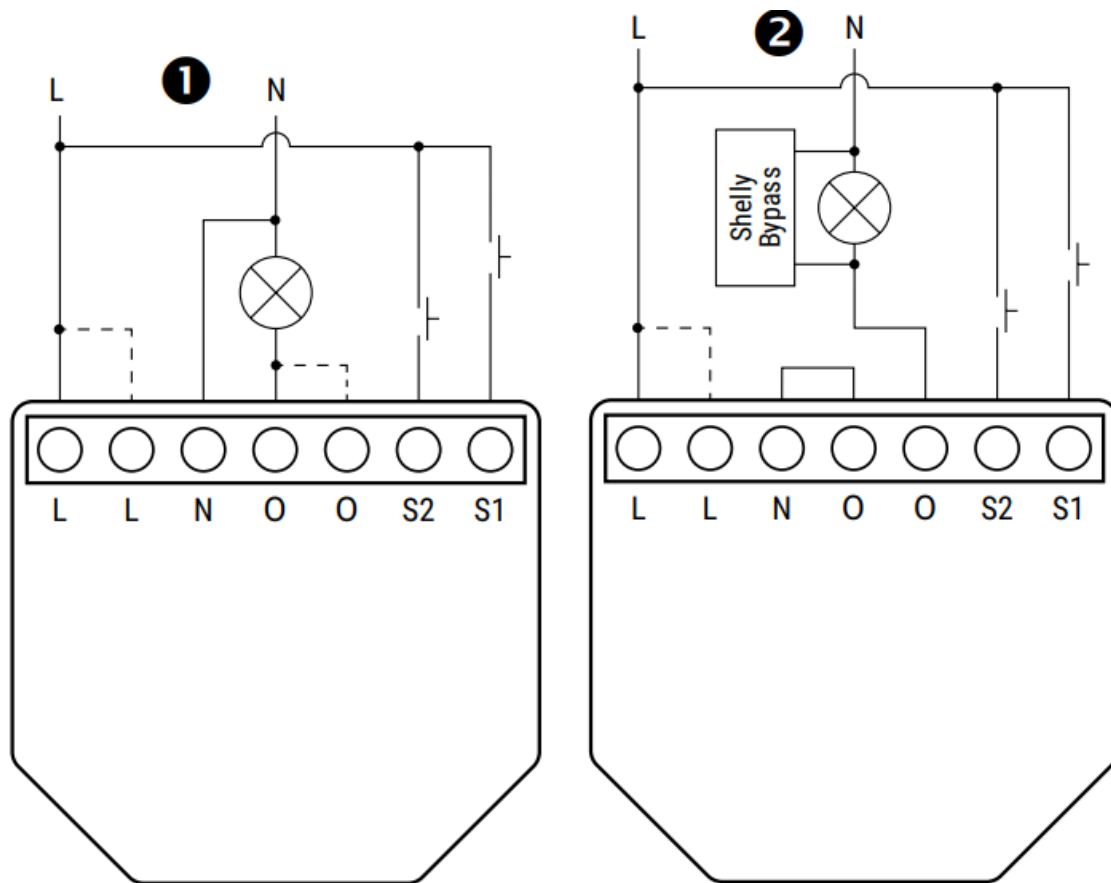
1. Connect the Live wire to the Device L terminal.
2. Connect the load to the Device output terminal O and the Neutral wire.
3. Connect a wire to the other O terminal and the N terminal as shown in the wiring diagram.
4. Connect the Shelly Bypass in parallel to the load.
5. Connect switches or buttons to the S1 and S2 terminals and the Live wire.

FAQ

- **Where can I find troubleshooting information for the Shelly Dimmer Gen3?**
 - In case you encounter problems with the installation or operation of the Device, check its knowledge base page: https://shelly.link/dimmer_Gen3

Wiring diagram

- **Fig. 1** – With Neutral
- **Fig. 2** – Without Neutral, with Bypass



Legend

Device terminals

- **L (x2):** 2 live terminals
- **N:** Neutral terminal
- **O (x2):** 2 output terminals to the load
- **S1, S2:** Switch/button input terminals for light control

Wires

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

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 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.
- ⚠ **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 must be secured by a cable protection switch under EN60898-1 (tripping characteristic B or C, max. 16A rated current, min. 6 kA interrupting rating, energy limiting class 3).
- ⚠ **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 Dimmer Gen3 (the Device) is a smart dimming controller that allows remote control of dimmable lights and dimming drivers through a mobile phone, tablet, PC, or home automation system. It can work standalone in a local Wi-Fi network or it can also be operated through cloud home automation services. The Device can be accessed, controlled, and monitored remotely from any place where the User has internet connectivity, as long as it is connected to the Internet.
- Shelly Dimmer Gen3 has an embedded Web Interface which can be used to monitor and control the Device, as well as adjust its settings. The Device can be used as a trailing edge dimmer switch, with or without a neutral wire.
- The Device has an embedded web interface used to monitor, control, and adjust the Device.
- The web interface is accessible at <http://192.168.33.1> when connected directly to the Device access point or at its IP address when you and the Device are connected to the same network.
- The Device can access and interact with other smart devices or automation systems if they are in the same network infrastructure.
- Shelly Europe Ltd. provides APIs for the devices, their integration, and cloud control.
- For more information, visit <https://shelly-api-docs.shelly.cloud>.
- The Device comes with factory-installed firmware. To keep it updated and secure, Shelly Europe Ltd. provides the latest firmware updates free of charge.
- Access the updates through either the embedded web interface or the Shelly Smart Control mobile application.
- Installation of firmware updates is the user's responsibility. Shelly Europe Ltd. shall not be liable for any lack of conformity of the Device caused by the failure of the user to install the available updates promptly.

Installation instructions

- To connect the Device, we recommend using solid sin-gle-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.
- For security reasons, after you successfully connect the Device to the local Wi-Fi network, we recommend that you disable or password-protect the Device AP (Access Point).
- To perform a factory reset of the Device, press and hold the Reset/control button for 10 seconds.
- To enable the access point and the Bluetooth connection of the Device, press and hold the Reset/control button for 5 seconds.
- Turn the power off at the breaker.

With Neutral

- Connect the Live wire to the Device L terminal, and the Neutral wire to the N terminal.
- Connect the load to the Device output terminal O and the Neutral wire as shown in the wiring diagram.
- Connect switches or buttons to the Device S1 and S2 terminals and the Live wire.





Without Neutral, with Bypass

- Connect the Live wire to the Device L terminal.
- Connect the load to the Device output terminal O and the Neutral wire.
- Connect a wire to the other O terminal and the N terminal as shown in the wiring diagram.
- Connect the Shelly Bypass in parallel to the load.
- Connect switches or buttons to the S1 and S2 terminals and the Live wire.

Specifications

- **Size (HxWxD):** 38.5×43.5×17mm / 1.52×1.71×0.67in
- **Weight:** 24.3 g / 0.86 oz
- **Screw terminals max torque:** 0.4 Nm / 3.5 lb
- **Conductor cross-section:** 0.2 to 2.5 mm² / 24 to 14 AWG (solid, stranded, and bootlace ferrules)
- **Conductor stripped length:** 5 to 6 mm / 0.20 to 0.24 in
- **Mounting:** In-wall
- **Shell material:** Plastic
- **Shell color:** Lime
- **Print color:** Black
- **Connector Color:** Black
- **Ambient working temperature:** -20°C to 40°C / -5°F to 105°F
- **Humidity:** 30% to 70% RH
- **Max. altitude:** 2000 m / 6562 ft
- **Power supply:** 220-240 V~ 50 Hz
- **Power consumption:** < 1.5 W
- **Neutral not needed:** Yes

- **Min. load without neutral and without a Bypass:** 20 W
- **Dimming-type** Trailing edge
- **External protection:** 16 A, tripping characteristic B or C, 6 kA interrupting rating, energy limiting class 3
- **Short circuit protection:** Yes
- **Max. output power:** 200 W
- **Voltmeter range (AC):** 180-240 V
- **Ammeter range (AC):** 0-3 A
- **Meters accuracy:** $\pm 5\%$ (when used with neutral)
- **Internal-temperature sensor:** Yes
- **Precise measurement** is possible only when used with neutral.

Supported loads:

- **Dimmable LED lamps:** up to 150 W
- **Incandescent bulbs:** up to 200 W
- **Halogen lamps:** up to 200 W
- **Iron-core** transformer with low-voltage incandescent lamps: up to 200 VA
- **Dimmable electronic transformers:** up to 200 W Wi-Fi
- **Protocol:** 802.11 b/g/n
- **RF band:** 2412-2472 MHz
- **Max. RF power:** < 20 dBm
- **Range:** Up to 30 m / 100 ft indoors and up to 50 m / 160 ft outdoors (depending on local conditions)

Bluetooth

- **Protocol:** 4.2
- **RF band:** 2402-2480 MHz
- **Max. RF power:** < 4 dBm
- **Range:** Up to 30 m / 98 ft outdoors, up to 10 m / 33 ft indoors (depending on local conditions)

CPU:

- **ESP32 C3**
- **STM32 G051**
- **Clock frequency:** ESP32 C3 – 40 Mhz
- **Flash:** 8MB
- **Schedules:** 20
- **Webhooks (URL actions):** 20 with 5 URLs per hook
- **Scripting:** Yes
- **MQTT:** Yes
- **Advanced schedules:** Yes
- **KVS (Key-Value Store):** 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>.
- The Shelly mobile application and Shelly Cloud service are not conditions for the Device to function properly. This Device can be used standalone or with various other home automation platforms.

Troubleshooting

- In case you encounter problems with the installation or operation of the Device, check its knowledge base page: https://shelly.link/dimmer_Gen3

Declaration of Conformity

- Hereby, Shelly Europe Ltd. declares that the radio equipment type Shelly Dimmer Gen3 complies 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/dimmer_Gen3_DoC

Manufacturer: Shelly Europe Ltd

- **Address:** 103 Cherni Vrah Blvd., 1407 Sofia, Bulgaria
- **Tel.:** +35929887435
- E-mail: 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 UP PSTI Act Statement of Compliance scan the QR code



Documents / Resources



[Shelly Gen3 Shelly Smart Dimming Controller](#) [pdf] Instruction Manual

Gen3 Shelly Smart Dimming Controller, Gen3, Shelly Smart Dimming Controller, Smart Dimming Controller, Dimming Controller, Controller

References

- [🌐 Shelly Control](#)
- [🔗 Welcome to Shelly Technical Documentation | Shelly Technical Documentation](#)
- [🔗 Shelly Smart Control guide](#)
- [User Manual](#)

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