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Shelly

Shelly Gen3 Shutter



Shelly Shutter

A cover controller with power measurement Referred to in this document as “the Device”

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.

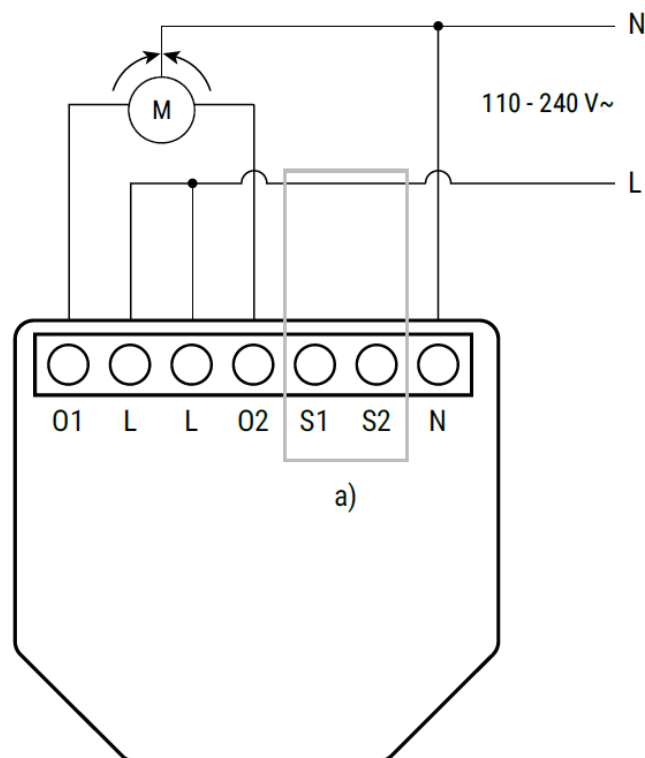
- ⚠ This sign indicates safety information.
- This sign indicates an important note.
- ⚠ WARNING! Risk of electric shock. Installation of the Device to the power grid must be performed carefully by a qualified electrician.
- ⚠ WARNING! Before making any changes to the connections, ensure there is no voltage present at the Device terminals.
- ⚠ CAUTION! Connect the Device only 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 may be connected to and control only electric circuits and appliances that comply with the applicable standards and safety norms.
- ⚠ CAUTION! Do not connect the Device to appliances that exceed the specified maximum electric load.
- ⚠ CAUTION! Connect the Device only in the way shown in these instructions. Any other method could cause damage and/or injury.
- ⚠ 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! 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).
- ⚠ CAUTION! Do not use the Device if it shows any sign of damage or defect.
- ⚠ CAUTION! Do not attempt to repair the Device yourself.
- ⚠ CAUTION! The Device is intended only for in-door use.

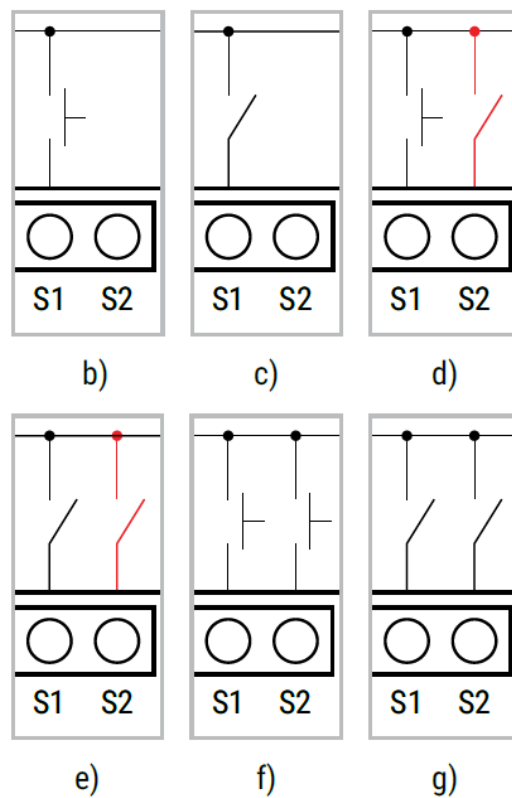
- ⚠ CAUTION! Keep the Device away from dirt and moisture.

CAUTION! Do not allow children to play with the buttons/switches connected to the Device. Keep the devices (mobile phones, tablets, PCs) for re-mote control of Shelly away from children.

Wiring diagram

Fig. 1. Wiring





Legend

Device terminals

- O1, O2: Cover control output terminals
- L: Live terminal (110-240 V~)
- S1, S2: Switch input terminals
- N: Neutral terminal

Wires

- L: Live wire (110-240 V~)
- N: Neutral wire

Product description

Shelly Shutter is a compact cover controller with power measurement, which allows remote control of shutters, shades, blinds, etc., from a mobile phone, tablet, PC, or home automation system. The Device has an embedded web interface to monitor, control, and adjust its settings. 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 accessed from 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 firm-ware. To keep it updated and secure, Shelly Europe Ltd. provides the latest firmware updates free of charge. Access the updates through either the em-bedded web interface or the Shelly Smart Control mobile application. Installation of firmware up-dates 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 in a timely manner.

Installation instructions

- To connect the Device, we recommend using solid single-core wires or stranded wires with ferrules. The wires should have insulation with in-creased heat resistance, not less than PVC T105°C (221°F).
- Do not use buttons or switches with built-in LED or neon glow lamps.
- 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.
- 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 Re-set/control button for 5 seconds.
- Do not use L terminal(s) of the device to power other devices.

Installing the device:

1. Connect the two L terminals to the Live wire and the N terminal to the Neutral wire.
2. Connect the common motor terminal/wire to the Neutral wire.
3. Connect the motor direction terminals/wires to the O1 and O2 terminals*.

*The outputs can be reconfigured in the Device settings to match the required rotation direction. After you install the Device, continue with config-uring its inputs:

- Single input: Control the cover with a single button/switch.
- Dual input: Control the cover with 2 buttons/switches.
- Detached mode: Control the cover only remotely.

Single input

To use the Device in Single input mode, connect a button or a switch to the Live wire and to the S1 terminal. Use Fig. 1 b) for a Button input or Fig. 1 c) for a Switch input. You can configure the input as a Button or Switch in the Device settings.

- Button input: Each button press cycles between open, stop, close, stop, etc.
- Switch input: Each switch toggle cycles through open, stop, close, stop, etc.

In Single input mode Shelly Shutter has Safety switch functionality. To implement it, connect the safety switch to the Live wire and to the S2 terminal.

Use Fig. 1 d) for a Button input or Fig. 1 e) for a Switch input. You can configure the Safety switch in the Device settings to either stop completely or stop and reverse the cover movement.

Dual input

To use the Device in Dual input mode, connect a button or switch to the Live wire and to the S1 and S2 terminals respectively. Use Fig. 1 f) for a Button input or Fig. 1 g) for a Switch input.

In case of Button input, each button press does the following:

- Moves the cover in the corresponding direction until the endpoint is reached.
- Stops the cover, if it is moving in the same direction.
- Reverses the cover movement until the endpoint is reached, if the cover is moving in the opposite direction.

In case of Switch input, each toggle switch does the following:

- When turned on, moves the cover in the corresponding direction until the endpoint is reached.
- When turned off, stops the cover movement.

- When both switches turned are on, the Device follows the last engaged switch. Turning off the last engaged switch stops the cover movement, even if the other switch is still on. To move the cover in the opposite direction, turn the other switch off and on again.

Detached mode

In Detached mode, you can control the Device only through the embedded web interface or a mobile application. Buttons or switches connected to the Device cannot control the cover.

To use the Device in Detached mode, connect it as shown in Fig. 1 a).

Obstacle detection

Shelly Shutter can detect obstacles. You can configure the Obstacle detection in the Device settings to either stop completely or stop and reverse the cover movement, if an obstacle is detected. You can enable or disable obstacle detection for one or both directions.

Specifications

Physical

- Size (HxWxD): 37x42x16 mm / 1.46x1.65x0.63 in
- Weight: 30 g / 1.06 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:Wall box
- Shell material: Plastic
- Shell color: Black
- Terminals color: Black

Environmental

- Ambient working temperature:-20°C to 40°C / -5°F to 105°F

- Humidity: 30% to 70% RH
- Max. altitude: 2000 m / 6562 ft

Electrical

- Power supply: 110-240V~ 50/60 Hz
- Power consumption: < 1.4 W

Output circuits ratings

- Max. switching voltage: 240 V~
- Max. switching current: 4 A

Sensors, meters

- Internal-temperature sensor: Yes
- Voltmeter (AC): Yes
- Ammeter (AC): Yes

Safety functions

- Overheating protection: Yes
- Overvoltage protection: Yes
- Overcurrent protection: Yes
- Overpower protection: Yes
- Obstacle detection: Yes
- Safety switch: Yes

Radio

Wi-Fi

- Protocol: 802.11 b/g/n
- RF band: 2401 – 2483 MHz
- Max. RF power: < 20 dBm
- Range: Up to 50 m / 164 ft outdoors, up to 30 m / 98 ft indoors (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)

Microcontroller unit

- CPU: ESP-Shelly-C38F
- Flash: 8 MB

Firmware capabilities

- Schedules: 20
- Webhooks (URL actions): 20 with 5 URLs per hook
- Wi-Fi range extender: Yes
- BLE Gateway: Yes
- Scripting: Yes
- MQTT: Yes
- Encryption: 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/Shutter>

Declaration of Conformity

Hereby, Shelly Europe Ltd. declares that the radio equipment type for Shelly Shutter 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/Shutter_DoC

- Manufacturer: Shelly Europe Ltd.
- Address: 51 Cherni Vrah Blvd., bldg. 3, fl. 2-3, Sofia 1407, 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.

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



Frequently Asked Questions

- **Q: Can the Device be used outdoors?**

A: No, the Device is intended only for indoor use.


- **Q: How can I update the firmware of the Device?**

A: You can access the latest firmware updates for free through the embedded web interface or the Shelly Smart Control mobile application. It is the user's responsibility to install firmware updates in a timely manner.

- **Q: What should I do if the Device shows signs of damage?**



A: Do not use the Device if it shows any sign of damage or defect. Contact a qualified professional for assistance.

Documents / Resources

	Shelly Gen3 Shutter [pdf] User Guide Gen3, Gen3 Shutter, Gen3, Shutter
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References

- [User Manual](#)

 Shelly  Gen3, Gen3 Shutter, Shelly, Shutter

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