

Shelly Shutter



Device identification

- Device name: **Shelly Shutter**
- Device model: **S3SH-0A2P4EU**
- Device SSID: **ShellyShutter-XXXXXXXXXXXX**
- BLE Model ID: **0x1039**

Short description

Shelly Shutter is a small form factor cover controller with power measurement, which allows remote control of shutter, shades and blinds 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 supports Venetian blinds.

Shelly Shutter can be accessed, controlled and monitored remotely from any place where the User has internet connectivity, as long as the device is connected to a Wi-Fi router and the Internet.

It can be retrofitted into standard electrical wall boxes, behind switches for covers.

Shelly Shutter has embedded Web Interface which can be used to monitor and control the device, as well as adjust its settings.

Main features

- **Smart Cover Controller with Power Measurement:** Acts as a smart cover controller with the added capability of measuring power consumption, allowing you to monitor the energy usage of connected covers, shutters or blinds.
- **Compact Design:** Designed as a small form factor switch, making it suitable for retrofitting into standard electrical wall boxes, behind power sockets, light switches, or other confined spaces.
- **Remote Control:** Enables remote control of electric appliances via a mobile phone, tablet, PC, or home automation system.
- **Local and Cloud Control:** Can function independently in a local Wi-Fi network and can also be operated through cloud home automation services.
- **Improved Processor and Memory:** Upgraded with an improved processor and increased memory for enhanced performance.
- **Remote Access:** Allows remote access, control, and monitoring from any location with internet connectivity, provided the device is connected to a Wi-Fi router and the internet.
- **Embedded Web Interface:** Features an embedded web interface for monitoring, control, and adjustment of settings.
- **BLE Gateway:** Bridge between your Shelly BLU devices and the wider Shelly ecosystem. It receives Bluetooth signals and sends them to the cloud or locally to another non-bluetooth device.
- **Wi-Fi Range extender for IoT devices:** A Wi-Fi extender is employed to expand the reach of your Wi-Fi network by receiving your current Wi-Fi signal, enhancing its strength, and then transmitting the enhanced signal over a wider area.
- **Scripting:** <https://shelly-api-docs.shelly.cloud/gen2/Scripts/ShellyScriptLanguageFeatures/>
- **Wide range of integrations:** The device can be integrated with 3rd party home systems, documented HTTP API, MQTT(s), Web Hooks over HTTP and HTTPS, UDP
- **KNX:** Supports [KNXnet/IP](#) communication
- **Schedules:** Allows scheduling of complex operations to be executed in predefined time window. Users can specify time windows based on date, time of day, weekdays, hours, minutes and seconds.
- **Virtual Components:** <https://shelly-api-docs.shelly.cloud/gen2/DynamicComponents/Virtual/>
- **KNX net/IP support:** <https://shelly-api-docs.shelly.cloud/gen2/Integrations/KNX/>
- **Venetian blinds mode:** The Device enables remote control of motorized blinds, roller shutters, venetian blinds, awnings, etc. It measures power consumption of the connected device. It is recommended to use only motors with electronic or mechanical limit switches. The motor limit switches must be set correctly before connecting the Device to the motor.

Use cases

- **Blinds Control:** Use it to remotely control and automate the operation of various shutter, blinds and awnings.
- **Power Monitoring:** Monitor the power consumption of connected shutters, blinds and awnings in real-time. This is useful for understanding energy usage patterns and promoting energy efficiency.
- **Home Automation:** Integrate the Shelly Shutter into your home automation system to create custom scenes and schedules for your devices.
- **Energy Efficiency:** Leverage the power measurement feature to identify energy-hungry appliances and make informed decisions to improve overall energy efficiency in your home.
- **Remote Monitoring:** Keep an eye on your devices even when you're away from home. The remote access feature allows you to monitor and control connected shutters, blinds and awnings from anywhere with internet connectivity.

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

Yes

Google Smart Home supported traits

Yes

Samsung SmartThings supported capabilities

Yes

Device electrical interfaces

Inputs

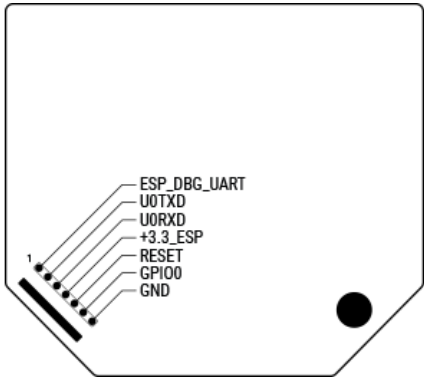
- 2 switch/button inputs on screw terminal: S1 and S2
- 3 power supply inputs on screw terminals: 1 N (+) and 2 L (L)

Outputs

- 2 relay outputs with power measurement on screw terminal

Add-on interface

- Shelly proprietary serial interface



⚠CAUTION! High voltage on the add-on interface when the Device is powered!

Connectivity

- Wi-Fi
- Bluetooth

Safety functions

- Overheating protection
- Overvoltage protection

- Overcurrent protection
- Overpower protection
- Obstacle detection
- Safety switch

Supported load types

- Inductive - Bi-directional AC motors for roller shutter, blinds (including Venetian blinds) and awnings with compensated power factor

User interface

Inputs

- One (Control) button
 - Pres once shortly after the blu button device is in pairing to connect the two devices together
 - 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 pressed 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.

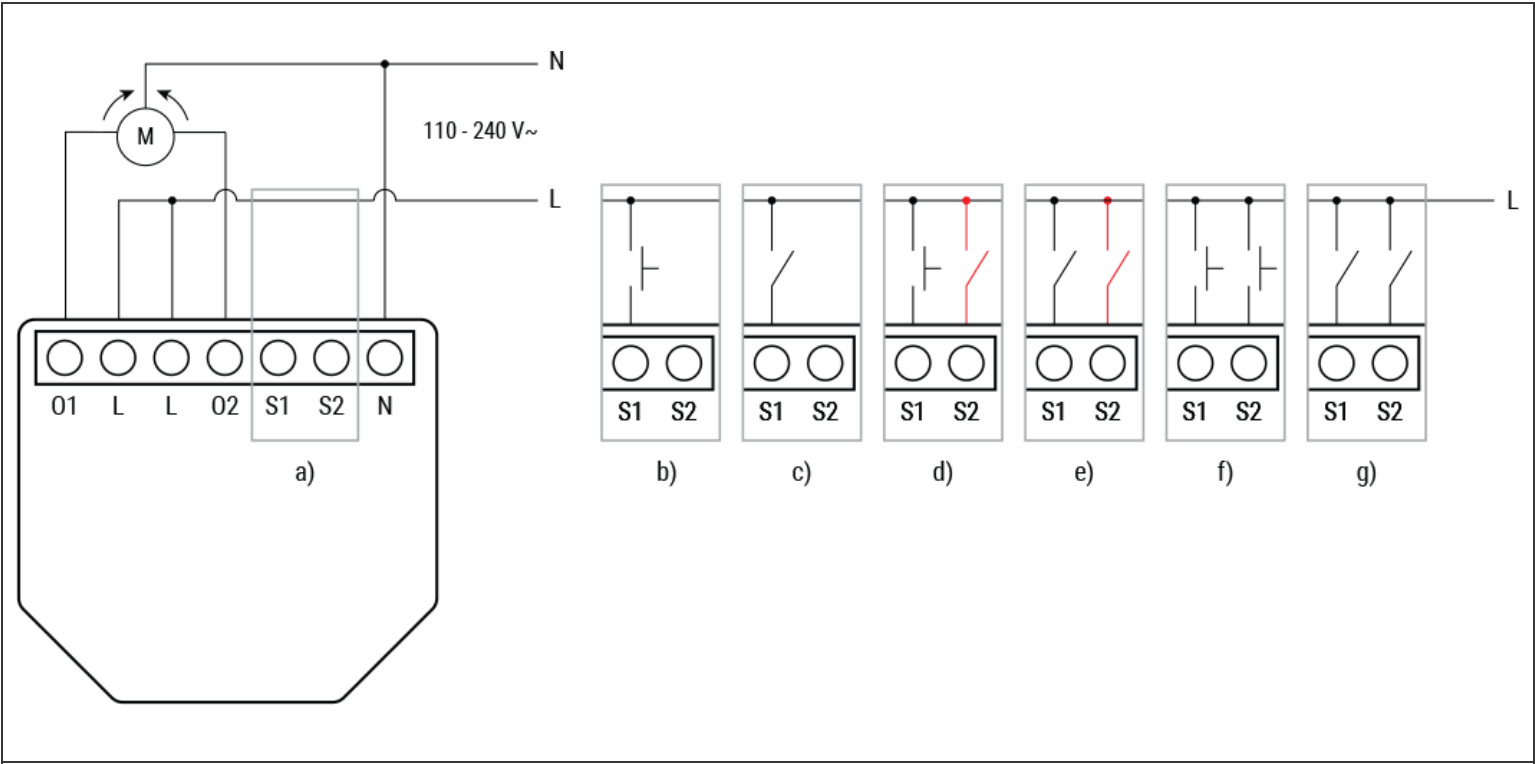
Specifications

Quantity	Value
Physical	
Size (HxWxD):	37x42x16 ±0.5 mm / 1.46x1.65x0.63 ±0.02 inch
Weight:	30 g / 1.06 oz
Screw terminals max torque:	0.4 Nm / 3.5 lbin
Conductor cross section:	0.5 to 4 mm² / 20 to 11 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:	110-240 V~ 50/60 Hz
Power consumption:	< 1.4 W
External protection:	Tripping characteristic B or C, 16A max. rated current, min. 6 kA interrupting rating, energy limiting class 3
Output circuits ratings	
Max. switching voltage:	240 V~
Max. switching current AC:	4 A for motors with compensated power factor (inductive loads)
Supported motor type:	Single-phase AC motors
Required limit switches:	Electronic or Mechanic
Sensors, meters	
Voltmeter (AC):	Yes
Ammeter (AC):	Yes
Internal-temperature sensor:	Yes
Radio	
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 50 m / 160 ft outdoors (Depends on local conditions)

Bluetooth	
Protocol:	4.2
RF band:	2402 - 2480 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
Flash:	8MB
Firmware capabilities	
Schedules:	20
Webhooks (URL actions):	20 with 5 URLs per hook
Scripting:	Yes
MQTT:	Yes

Basic wiring diagrams



Legend

Terminals		Wires	
O1, O2:	Load circuit output terminals	N:	Neutral wire
N:	Neutral terminal	L:	Live wire (110-240 V~)
L:	Live terminal (110-240 VAC)		

S1, S2	Switch input terminals		
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Shelly Smart Control

- Adding the device to the Shelly Smart Control

Compliance

- Shelly Shutter multilingual EU declaration of conformity 274 2026-03-13.pdf
- Shelly Shutter UK PSTI ACT statement of compliance 274 2026-03-13.pdf
- Shelly Shutter UKCA declaration of conformity 274 2026-03-13.pdf

Compliance archive

Shelly Shutter multilingual EU declaration of conformity 148 2025-07-22.pdf

Shelly Shutter multilingual EU declaration of conformity 74 2025-03-04.pdf

Shelly Shutter UK PSTI ACT Statement of compliance 74 2025-03-04.pdf

Printed user guide

- Shelly Shutter Gen3 multilingual printed user and safety guide.pdf
- Ръководство за употреба и безопасност

Components and APIs

- This device
- All Shelly devices and services

Installation guides

- Pairing Shelly Shutter with Shelly BLU Button Tough 1
- Pairing Shelly Shutter with Shelly BLU RC Button 4
- Ръководство за сдвояване на Shelly Shutter с Shelly BLU Button Tough 1
- Ръководство за сдвояване на Shelly Shutter с Shelly BLU RC Button 4

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