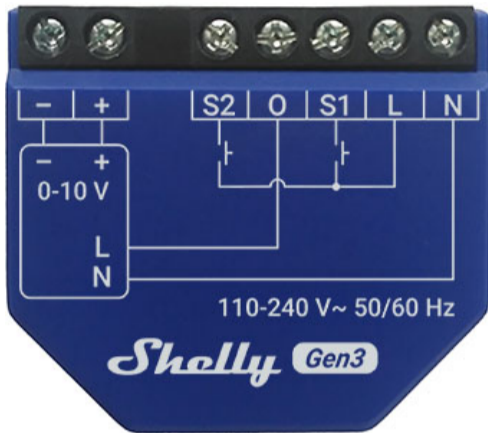


Shelly Dimmer 0 1 10v PM Gen3

Device image



Device identification

- Device name: **Shelly Dimmer 0/1-10V PM Gen3**
- Device model: **S3DM-0010WW**
- Device SSID: **Shelly0110DimG3-XXXXXXXXXXXX**
- BLE Model ID: **0x1072**

Short description

Shelly Dimmer 0/1-10V PM Gen3 (the Device) is a smart dimming controller which allows remote control 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 is a current sourcing controller and provides support for 0-10V and 1-10V types of drivers.

Main features

- **Bluetooth:** The Device complies the Bluetooth standard and can connect with other Bluetooth devices to exchange data in short range.
- **BLE Gateway:** Facilitates communication between BLE and Wi-Fi-enabled devices.
- **Wi-Fi:** The Device can connect to a wireless network.
- **Wi-Fi Range extender:** Retransmits the Wi-Fi signal and extends its reach.
- **Scripting:** Allows creating automation scenarios through scripts.
- **Basic Schedules:** Supports weekly schedules and routines, including setting of brightness, transition duration, and flip value of the dimming signal.
- **Advanced Schedules:** Supports detailed schedules and routines throughout the year with a broad range of time adjustments from seconds to months, including setting of brightness, transition duration, and flip value of the dimming signal.
- **Shelly Plus Add-On compatible:** The Device supports connection with the sensor interface to the Shelly Plus devices.
- **Auto on/off timers:** Enables auto on/off timer setting.
- **Local actions:** Allows creating automation scenarios within the local Wi-Fi network, including setting of brightness, transition duration, and flip value of the dimming signal.
- **Webhooks:** Supports automation through lightweight, event-driven communication with other devices.
- **Compatibility:** Highly compatible with 3rd Party home automation systems.
- **No need for hub:** Ready for use locally or remotely via Shelly Smart Control or 3rd Party systems.
- **Activity log:** Stores detailed history of events.
- **KVS (Key-value storage):** KVS service provides a basic persistent storage of key-value pairs.
- **Customizable thresholds and offsets for temperature, humidity and light when/if used with Plus Add-on**
- **Safety:** Over current/voltage/power protections
- **Power measurement:** Precise monitoring of energy consumption. Information about voltage (V), current (A) and consumption (W) is displayed.
- **Diverse driver integration:** Supports 0-10V and 1-10V types of drivers (lights, motors, valves, etc.).
- **Night Mode:** Enables to set a specific brightness of input lights during nighttime.
 - If *night mode brightness* < *min_brightness_on_toggle*, then *min_brightness_on_toggle* is applied
- **Switch/Button input mode:** Allows flexible input control through switches and/or buttons

- One button dimming control
- Dual button dimming control
- **Transition duration:** Controls the time for dimming from 0 to 100 % on toggle On and from 100 to 0% on toggle Off.
- **Minimum brightness on toggle On:** Brightness level (in percent) applied when there is a toggle On and current brightness is lower than 'Min brightness on toggle'. Default is 3%. Not applied when explicit (custom) transition is defined in Schedules and Actions.
- **Min/Max brightness:** Reframes the range of the dimming signal to get more precise brightness control on the output.
- **Button fade rate:** Controls how quickly the output brightness changes while holding the button(s). Default is 3x.
- **Button presets:** State to be applied on double-push (double-click) event. Default value is 100%
- **Virtual components:** A special set of components that do not exist in the device initially and are created dynamically by the user.

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

Use cases

- Control brightness of dimmable lights within the 0-10 V range to set the perfect brightness.
- Create smart schedules to have lights automatically adjust their brightness throughout the day.
- Retrofit your existing lighting system with the Dimmer 0/1-10V PM Gen3 and continue using your current switches.
- Sync your lights with sunrise and sunset times easily using smart schedules.
- Activate a night mode for reduced brightness during nighttime hours.
- Integrate the Dimmer 0/1-10V PM Gen3 with third-party systems like Home Assistant, Google Home, Alexa, and SmartThings for expanded control options.
- Utilize the device to dim lights up or down with a single or double button press.
- Monitor and measure power usage of connected lights for energy management.

Integrations

Amazon Alexa supported capabilities

Yes

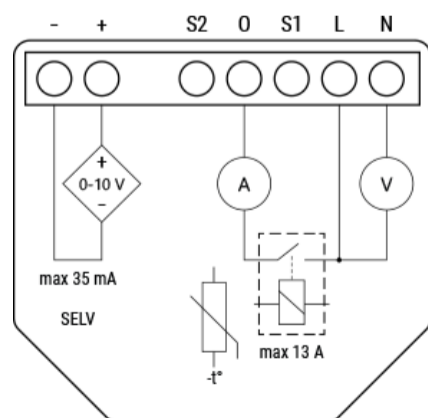
Google Smart Home supported traits

Yes

Samsung SmartThings supported capabilities

Yes

Simplified internal schematics



Device electrical interfaces

Inputs

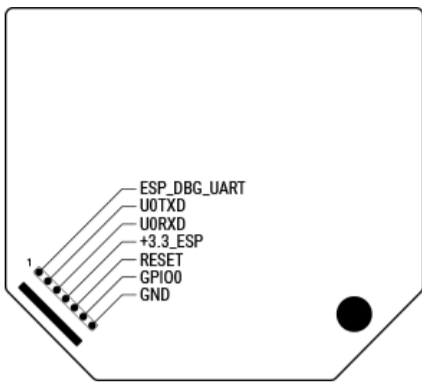
- 2 switch/button inputs on screw terminals: S1 and S2
- 2 power supply inputs on screw terminals: 1 N and 1 L

Outputs

- 2 0-10V outputs on screw terminals: + and -
- 1 relay output 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 function

- Overheating protection
- Overvoltage protection
- Overcurrent protection
- Overpower protection

Supported load types

- 0-10V signal control for multiple types of drivers (lights, motors, valves, etc.)
- 1-10V signal control

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.

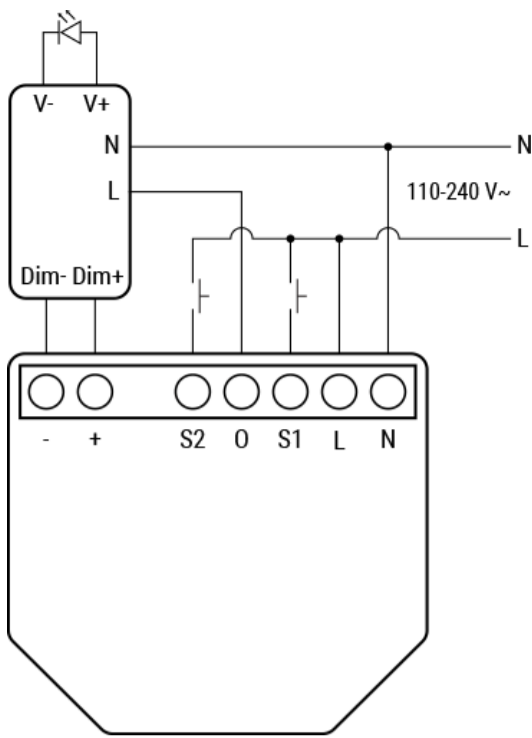
Specifications

Quantity	Value
Physical	
Size (HxWxD):	38.5x43.5x17mm / 1.52x1.71x0.67in
Weight:	28.5 g / 0.99 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:	5 to 6 mm / 0.20 to 0.24 in
Mounting:	Wall console/behind wall/ceiling construction

Shell material:	Plastic
Shell color:	Shell: Pantone 2736C (blue) Print: White
Connector 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:	< 1.5 W
Neutral not needed:	No
0-10V/1-10V voltage control type:	Current sourcing
External protection:	16 A, tripping characteristic B or C, 6 kA interrupting rating, Energy limiting class 3
Output circuits ratings	
Max. switching voltage:	240 V~
Max. switching current:	13 A
Max. control current:	35 mA
Sensors, meters	
Voltmeter (AC):	110 V - 240 V
Voltmeter accuracy:	±10 %
Ammeter (AC):	50 mA - 16 A
Ammeter accuracy:	±10 %
Power and energy meters:	<ul style="list-style-type: none"> • Active and apparent power • Active and apparent energy • Power factor
Measurement data storage:	No
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:	Shelly ESP32 C3
Clock frequency:	40 Mhz
Flash:	8 MB
Firmware capabilities	
Schedules:	20
Webhooks (URL actions):	20 with 5 URLs per hook
Scripting:	Yes
MQTT:	Yes
Advanced schedules:	Yes
KVS (Key-Value Store):	Yes

Basic wiring diagrams



Legend

Terminals		Wires	
-	0-10 VDC negative terminal	L	Live (110-240 V) wire
+	0-10 VDC positive terminal	N	Neutral wire
O	Relay output		
S1	Switch/button input terminals for light control		
S2	Switch/button input terminals for light control		
L	Live (110-240 V) terminal		
N	Neutral terminal		
Dim-/Dim +	Positive/negative terminal of the LED driver		
V-/V+	Positive/negative output of the LED driver		

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

Compliance

- [Shelly Dimmer 0_1-10V PM Gen3 multilingual EU declaration of conformity 2025-07-22.pdf](#)
- [Shelly Dimmer 0_1-10V PM Gen3 AU NZ Certificate for Suitability.pdf](#)
- [Shelly Dimmer 0_1-10V PM Gen3 UK PSTI ACT Statement of compliance.pdf](#)

Compliance archive