
TECHNICAL DOCUMENT

GLEDOPTO ZigBee AC Triac In-Wall Dimmer Control Box with Button GL-SD-301P

Product reference: GL-SD-301P

Brand: GLEDOPTO

Original Brand document

The original technical pages follow this distributor cover and are preserved without changes to Brand identity, specifications, diagrams, certifications or claims.

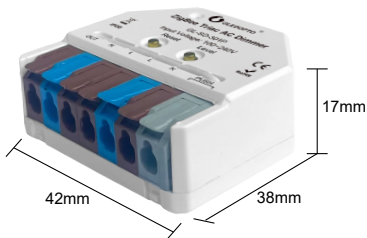
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ZigBee Triac AC Dimmer User Instruction

GL-SD-301P

Product Parameter



Product Model: GL-SD-301P

Input Voltage: AC 100~240V

Output Current: 1.8 A Max

Minimum Load: 3W

Protocol: ZigBee3.0+2.4G RF

Suggested Wire Type: 0.5-1.63mm² (24-14AWG)

Stripping Length: 8-9mm

Material: Flame Retardant PC

Protection Rate: IP20

Operating Temperature: -20~45°C

Size: 42x38x17mm

Compatible Load Types

Load Symbol	Load Type	Maximum Load
	Dimmable LED lamps	200W@220V 100W@110V
	Dimmable LED drivers	200W@220V 100W@110V
	Incandescent lighting, HV Halogen lamps	400W@220V 200W@110V
	Low voltage halogen lighting with electronic transformers	200W@220V 100W@110V

Function of Button

Level:

Short press: On/Off

Long press: Adjust brightness (Assumption: Long press to increase brightness, long press again after releasing to decrease brightness)

Reset:

Short Press 5 times: Reset the controller

Long Press: Set the minimum brightness of the dimmer (Assumption: Long press to increase brightness, long press again after releasing to decrease brightness)

Short Press 3 times or toggle the power switch 3 times: indicating that the power-off memory function has been activated.

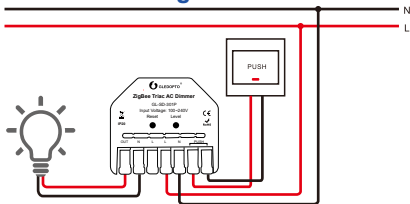
(note: This function is disabled by default .)

Push:

Short press: On/Off

Long press: Adjust brightness (Assumption: Long press to increase brightness, long press again after releasing to decrease brightness)

Wiring Method



Connecting with the Gateway

Network Connection:

1. Connect the power supply to the dimmer correctly.
2. Use the gateway's app to start device search. you need to wait for a certain period (details in the gateway's user manual). If the gateway does not find the dimmer, try power cycling or reset the dimmer.
3. Once the gateway discovers the dimmer, add the dimmer to a designated room or group.
4. Once connected to the network, you can start using the dimmer.

Remote Control Pairing/Unpairing

Pairing Method:

(1) Power off the dimmer, then power it back on after 10 seconds.

(2) Within 4 seconds of powering on, press the "On" button of any group on the RF remote control (details in the remote control's user manual).



(3) When the LED strip connected to the dimmer blinks 3 times, it indicates connect with the remote control successfully.

Unpairing Method:

(1) Power off the dimmer, then power it back on after 10 seconds.

(2) Within 4 seconds of powering on, press the "All On" or "On" button of the group the dimmer in the RF remote control 5 times.



short press 5 times

(3) When the LED strip connected to the dimmer blinks 6 times, it indicates disconnection from the remote control.

Compatible with 2.4G RF Remote Control



GL-RC-001



GL-RC-006



GL-RC-007



GL-RC-009

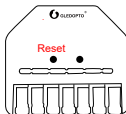


GL-W-003Z

Reset Method

1. Button Reset:

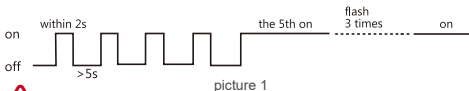
Press the RESET button 5 times briefly. The load will blink 3 times, indicating the reset is complete.



2. Power On/Off Reset:

As shown in picture 1:

1. Power on the dimmer.
2. Power off within 2 seconds.
3. Wait for more than 5 seconds to ensure complete power-off.
4. Repeat the above steps 5 times.
5. Power on again. If it blinks 3 times, the reset is complete.



1. Before turning on the power, please ensure that all connections are correct and secure, and do not operate while the power is on.
2. The product should be used under the rated voltage. Using it under excessive or insufficient voltage may damage products.
3. Do not disassemble the product, as it may cause fire and electric shock.
4. This product is a precision electronic device, do not use it in damp, high temperature, high pressure, or dusty environments.
5. Do not use the product in metal shielded areas or around strong magnetic fields, as this may severely affect the wireless signal transmission of the product.

Disclaimers

1. Due to our continuous adoption of new technologies, product specifications may change without further notice.
2. This manual is provided for reference and guidance only and does not guarantee complete consistency with the actual product. The actual application should be based on the actual product.
3. The components and accessories described in this manual do not represent the standard configuration of the product. The specific configuration is subject to the packaging.
4. All text, tables, and images in this manual are protected by relevant national laws and may not be used without our permission.
5. This product may be compatible with third-party products (such as apps, hubs, etc.), but our company does not take responsibility for compatibility issues or partial loss of functionality caused by changing in third-party products.