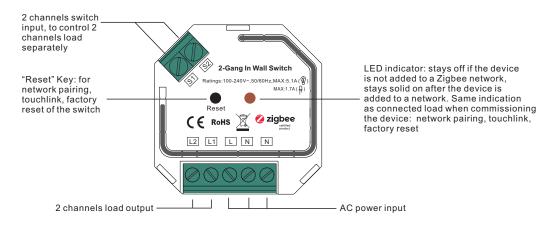
# ZigBee 2-Gang In-wall Switch

# Important: Read All Instructions Prior to Installation

#### **Function introduction**



# **Product Data**

Input Voltage	Output Voltage	Output Channel	Max. Load	Size(LxWxH)
100-240VAC	100-240VAC	2 Channels	Resistive load: max. 5.1A/CH Capacitive load: max. 1.7A/CH	45.5x45x20.3mm

Compatible Load Types					
Load Symbol	Load Type	Maximum Load	Remarks		
- <b>¥</b> -	LED lamps with transformers	390W/CH @ 230V 180W/CH @ 110V	Due to variety of LED lamp designs, maximum number of LED lamps is further dependent on power factor result when connected to switch.		
	LED drivers	390W/CH @ 230V 180W/CH @ 110V	Maximum permitted number of drivers is 390W divided by driver nameplate power rating.		
-ऴ-	Incandescent lighting, HV Halogen lamps	1170W/CH @ 230V 560W/CH @ 110V			
	Low voltage halogen lighting with electronic transformers	390W/CH @ 230V 180W/CH @ 110V			

# **Over Current Protection**

• When connecting resistive load and total load is over 8.1A, the relay will be forced to off and protected.

- 2-gang ZigBee in-wall switch based on latest ZigBee 3.0 protocol
- 100-240VAC wide input and output voltage
- Supports resistive loads and capacitive loads
- 2 channels output, max. load 5.1A/CH
- Input and output with screw terminals, safe and reliable
- Enables to control ON/OFF of connected load
- · ZigBee device with 2 endpoints which can be controlled separately
- ZigBee end device that supports Touchlink commissioning
- · Can directly pair to a compatible ZigBee remote via Touchlink without coordinator
- Supports self-forming zigbee network without coordinator and add other devices to the network
- Supports find and bind mode to bind a ZigBee remote
- Supports zigbee green power and can bind max. 20 zigbee green power switches
- Compatible with universal ZigBee gateway products
- Can be controlled by universal single wire push switch, 2 channels can be controlled separately by 2 switches
- Active power and energy metering functionality
- Mini Size, Easy to be installed into a standard wall box
- Radio Frequency : 2.4GHz
- Waterproof grade: IP20

# Safety & Warnings

- DO NOT install with power applied to device.
- DO NOT expose the device to moisture.

#### ZigBee Clusters the device supports are as follows: Input Clusters

Ox0000: Basic • 0x0003: Identify • 0x0004: Groups • 0x0005: Scenes • 0x0006: On/off
Ox0702: Simple Metering • 0x0b04: Electrical Measurement • 0x0b05: Diagnostics
Output Clusters
Ox0019: OTA

# Operation

1.Do wiring according to connection diagram correctly.

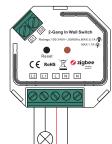
2.This ZigBee device is a wireless receiver that communicates with a variety of ZigBee compatible systems. This receiver receives and is controlled by wireless radio signals from the compatible ZigBee system.

# 3. Zigbee Network Pairing through Coordinator or Hub (Added to a Zigbee Network)

**Step 1**: Remove the device from previous zigbee network if it has already been added to, otherwise pairing will fail. Please refer to the part **"Factory Reset Manually"**.

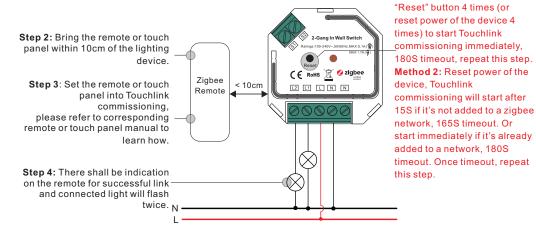
Step 2: From your ZigBee Controller or hub interface, choose to add lighting device and enter Pairing mode as instructed by the controller.

**Step 4**: Connected light will blink 5 times and then stay solid on, then the device will appear in your controller's menu and can be controlled through controller or hub interface.



Step 3: Reset power of the device to set it into network pairing mode (connected light flashes twice slowly), 15 seconds timeout, repeat this step.

#### 4. TouchLink to a Zigbee Remote



Note: 1) Directly TouchLink (both not added to a ZigBee network), each device can link with 1 remote. 2) TouchLink after both added to a ZigBee network, each device can link with max. 30 remotes. 3) To control by both gateway & remote, add remote and device to network first then TouchLink. 4) After TouchLink, the device can be controlled by the linked remotes.

#### 5. Removed from a Zigbee Network through Coordinator or Hub Interface

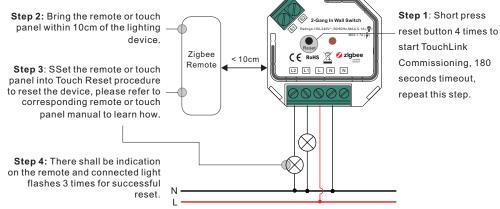


From your ZigBee controller or hub interface, choose to delete or reset the lighting device as instructed. The connected light blinks 3 times to indicate successful reset.

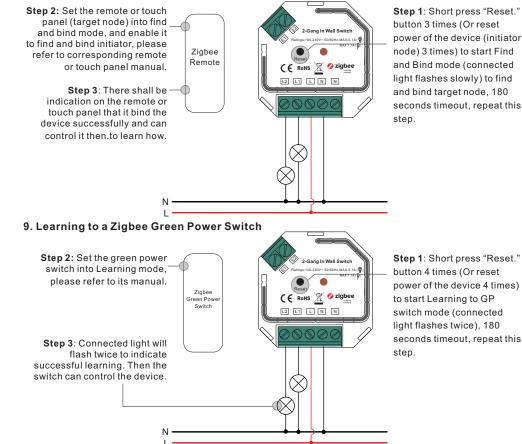
Step 1: Method 1: Short press

# 7. Factory Reset through a Zigbee Remote (Touch Reset)

Note: Make sure the device already added to a network, the remote added to the same one or not added to any network.



#### 8. Find and Bind Mode Note: Make sure the device and remote already added to the same zigbee network.



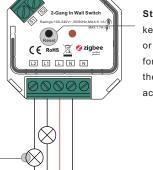
Note: Each device can learn to max. 20 zigbee green power switches.

6. Factory Reset Manually

Note: 1) If the device is already at factory default setting, there is no indication when factory reset again .

2) All configuration parameters will be reset after the device is reset or removed from the network.

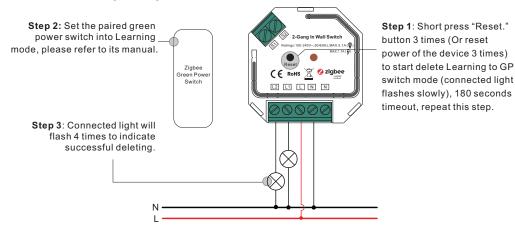
Step 2: Connected light will blink 3 times to indicate successful reset.



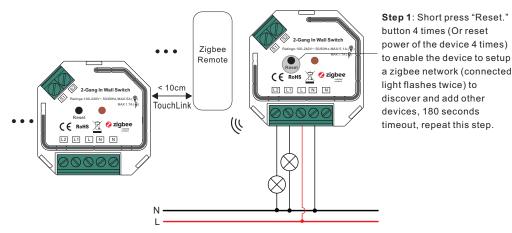
Step 1: Short press "Reset." key for 5 times continuously or reset power of the device for 5 times continuously if the "Reset" key is not accessible.

Step 1: Short press "Reset." button 4 times (Or reset power of the device 4 times) to start Learning to GP switch mode (connected light flashes twice), 180 seconds timeout, repeat this

#### 10. Delete Learning to a Zigbee Green Power Switch



#### 11. Setup a Zigbee Network & Add Other Devices to the Network (No Coordinator Required)



Step 2: Set another device or remote or touch panel into network pairing mode and pair to the network, refer to their manuals.

Step 3: Pair more devices and remotes to the network as you would like, refer to their manuals.

Step 4: Bind the added devices and remotes through Touchlink so that the devices can be controlled by the remotes, refer to their manuals.

# Note: 1) Each added device can link and be controlled by max. 30 added remotes.

2) Each added remote can link and control max. 30 added devices.

# 12. OTA

The device supports firmware updating through OTA, and will acquire new firmware from zigbee controller or hub every 10 minutes automatically.

Notes for the diagrams: L - terminal for live lead N - terminal for neutral lead S1 - terminal for switch key No. 1 S2 - terminal for switch key No. 2

- L1 output terminal no. 1 for light load
- L2 output terminal no. 2 for light load

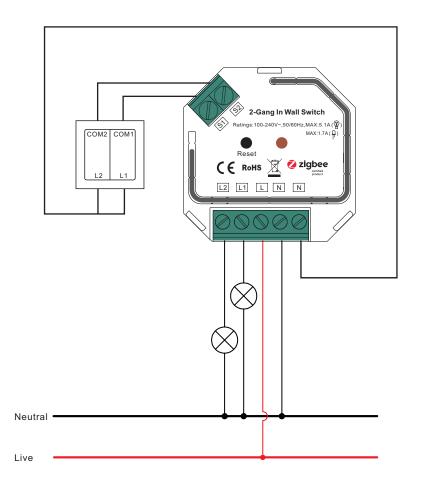
Supported Switch Types:

The switch types this device supports can be configured by factory setting:

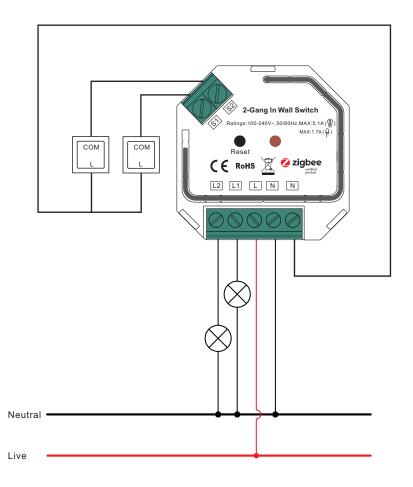
1. Push Switch (factory default setting)

2. Toggle On/Off Switch (can be configured by factory setting upon request)

#### 1. With 1PC 2-Gang 1-Way Switch



#### Wiring Diagram



# **Product Dimension**

