



## ZigBee 2-Gang In-wall Switch User Guide

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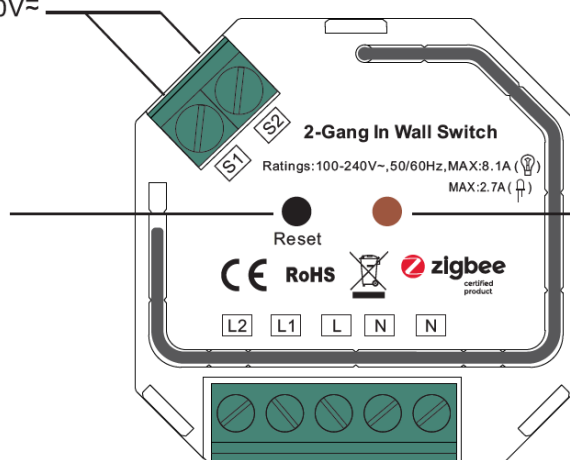
**ZigBee 2-Gang In-wall Switch**



## Function Introduction

Connect with 8-230V~  
push switch

“Reset” Key: for  
network pairing,  
touchlink, factory  
reset of the switch



LED indicator: stays off if the device  
is not added to a Zigbee network,  
stays solid on after the device is  
added to a network. Same indication  
as connected load when commissioning  
the device: network pairing, touchlink,  
factory reset

2 channels load output

AC power input

## Product Data

Input Voltage	Output Voltage	Output Channel	Max. Load	Size (LxWxH)
100-240VAC	100-240VAC	2 Channels	Resistive load: max. 8.1A, capacitive load: max. 2.7A	45.5x45x20.3mm

Compatible Load Types			
Load Symbol	Load Type	Maximum Load	Remarks
	LED lamps with transformers	620W @ 230V 290W @ 110V	Due to variety of LED lamp designs, maximum number of LED lamps is further dependent on power factor or result when connected to switch.
	LED drivers	620W @ 230V 290W @ 110V	Maximum permitted number of drivers is 620W divided by driver nameplate power rating.
	Incandescent lighting, HV Halogen lamps	1860W @ 230V 890W @ 110V	
	Low voltage halogen lighting with electronic transformers	620W @ 230V 290W @ 110V	

## Over Current Protection

- When connecting resistive load and total load is over 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 8.1A total
- 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
- 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
- DO NOT expose the device to

## ZigBee Clusters the device supports are as follows:

### Input Clusters

- 0x0000: Basic 0x0003: Identify
- 0x0004: Groups
- 0x0005: Scenes
- 0x0006: On/off
- 0x0702: Simple Metering 0x0b04: Electrical Measurement
- 0x0b05: Diagnostics

### Output Clusters

- 0x0019: OTA

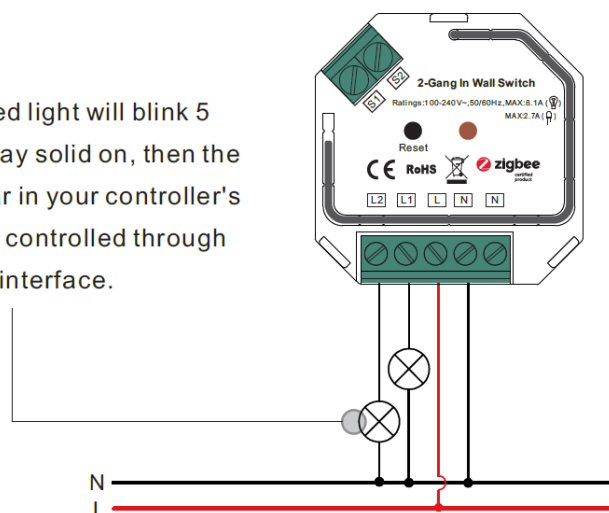
## Operation

1. Do wiring according to connection diagram
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.



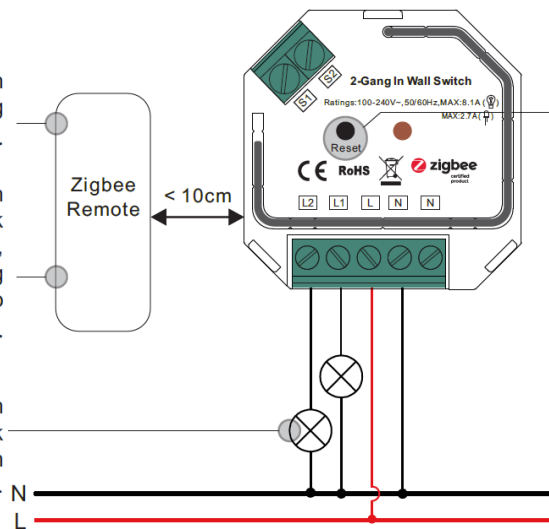
**Step 3:** Reset power of the device to set it into network pairing mode (connected light flashes twice slowly), 15 seconds timeout, repeat this step.

4. TouchLink to a Zigbee Remote

**Step 2:** Bring the remote or touch panel within 10cm of the lighting device.

**Step 3:** Set the remote or touch panel into Touchlink commissioning, please refer to corresponding remote or touch panel manual to learn how.

**Step 4:** There shall be indication on the remote for successful link and connected light will flash twice.

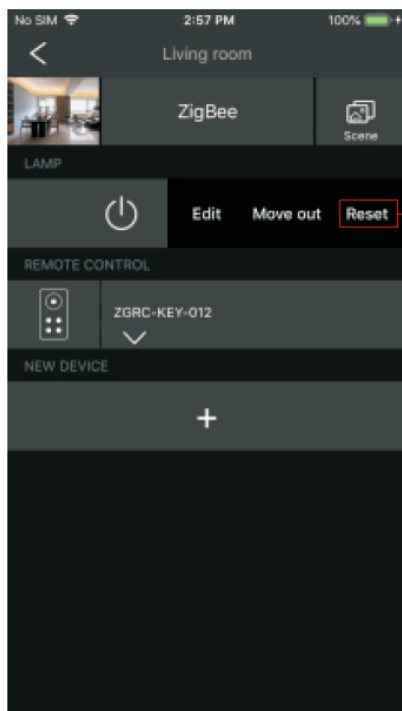


**Step 1: Method 1:** Short press "Reset" button 4 times (or reset power of the device 4 times) to start Touchlink commissioning immediately, 180S timeout, repeat this step. **Method 2:** Reset power of the device, Touchlink commissioning will start after 15S if it's not added to a zigbee network, 165S timeout. Or start immediately if it's already added to a network, 180S timeout. Once timeout, repeat this step.

#### Note:

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

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



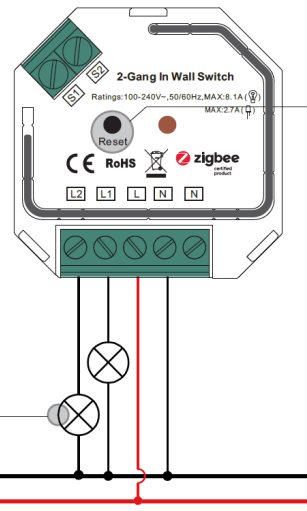
From your ZigBee controller or hub interface, choose to delete or reset the lighting device as instructed. The connected light blinks 3 times to indicate successful reset.

#### 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.

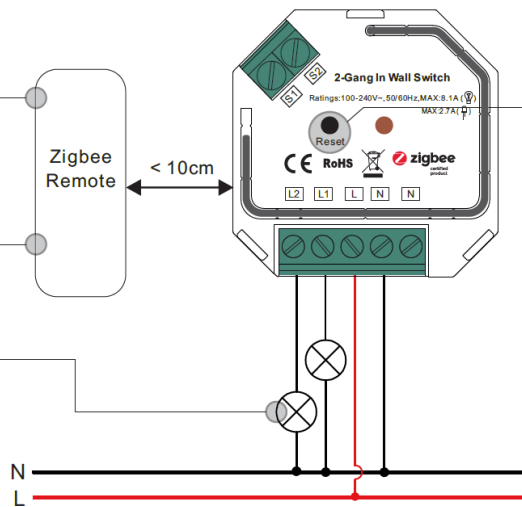
## 7. Factory Reset through a Zigbee Remote (Touch Reset)

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

**Step 2:** Bring the remote or touch panel within 10cm of the lighting device.

**Step 3:** Set the remote or touch panel into Touch Reset procedure to reset the device, please refer to corresponding remote or touch panel manual to learn how.

**Step 4:** There shall be indication on the remote and connected light flashes 3 times for successful reset.



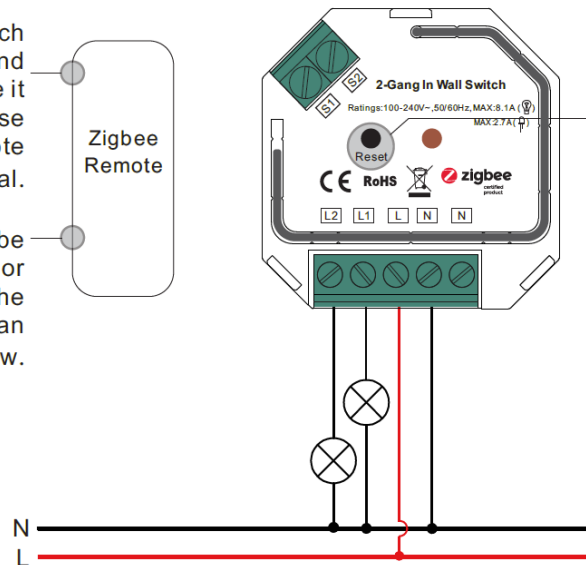
**Step 1:** Short press reset button 4 times to start TouchLink Commissioning, 180 seconds timeout, repeat this step.

## 8. Find and Bind Mode

**Note:** Make sure the device and remote already added to the same zigbee network.

**Step 2:** Set the remote or touch panel (target node) into find and bind mode, and enable it to find and bind initiator, please refer to corresponding remote or touch panel manual.

**Step 3:** There shall be indication on the remote or touch panel that it bind the device successfully and can control it then. to learn how.

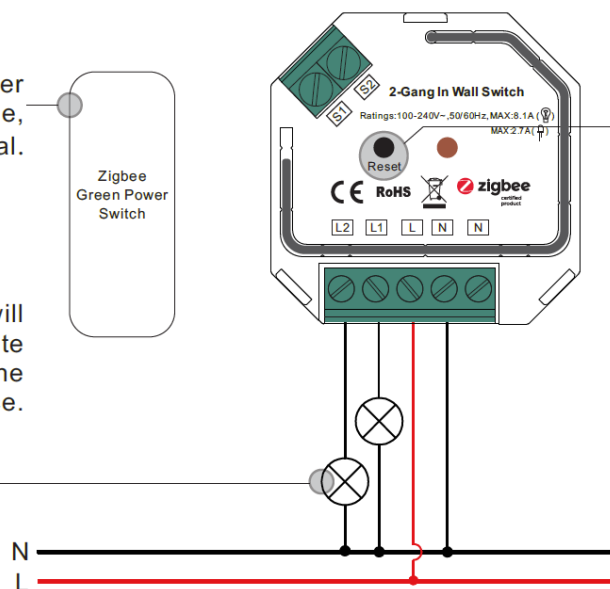


**Step 1:** Short press "Reset." button 3 times (Or reset power of the device (initiator node) 3 times) to start Find and Bind mode (connected light flashes slowly) to find and bind target node, 180 seconds timeout, repeat this step.

## 9. Learning to a Zigbee Green Power Switch

**Step 2:** Set the green power switch into Learning mode, please refer to its manual.

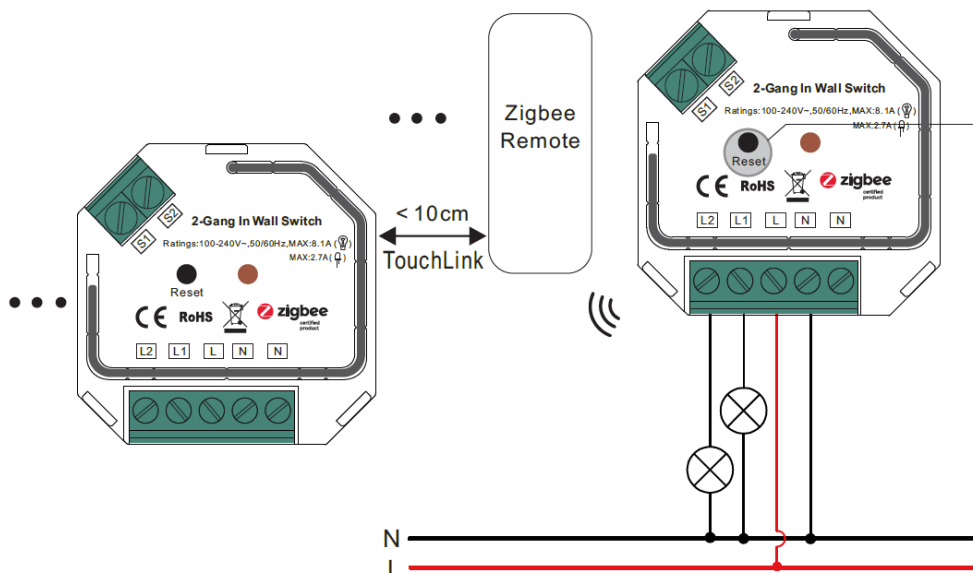
**Step 3:** Connected light will flash twice to indicate successful learning. Then the switch can control the device.



**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 step.

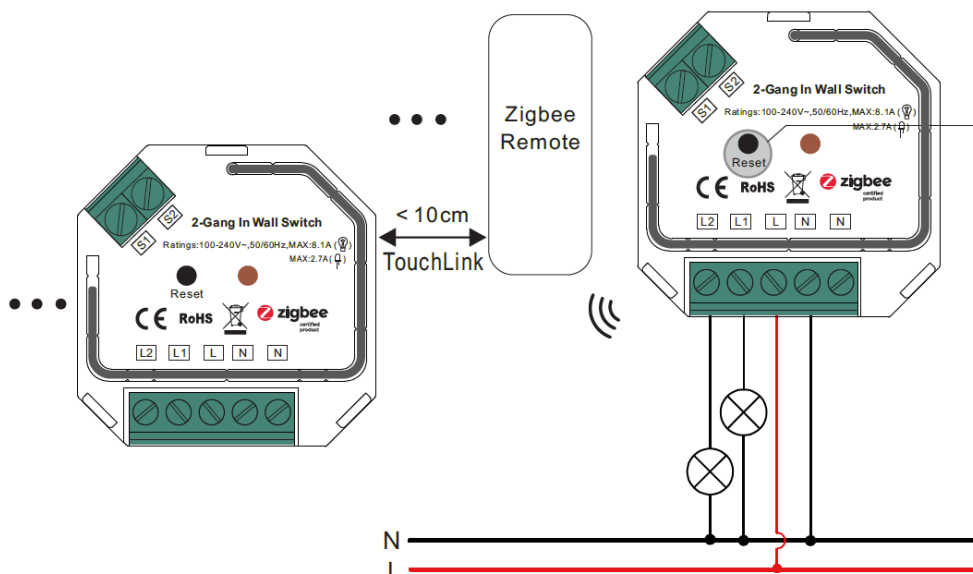
**Note:** Each device can learn to max. 20 zigbee green power switches

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



**Step 1:** Short press "Reset." button 4 times (Or reset power of the device 4 times) to enable the device to setup a zigbee network (connected light flashes twice) to discover and add other devices, 180 seconds timeout, repeat this step.

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



**Step 1:** Short press "Reset." button 4 times (Or reset power of the device 4 times) to enable the device to setup a zigbee network (connected light flashes twice) to discover and add other devices, 180 seconds timeout, repeat this step.

**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:**

- Each added device can link and be controlled by max. 30 added remotes.
- 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.

**13. Wiring Diagram**

Notes for the diagrams:

L – terminal for live lead

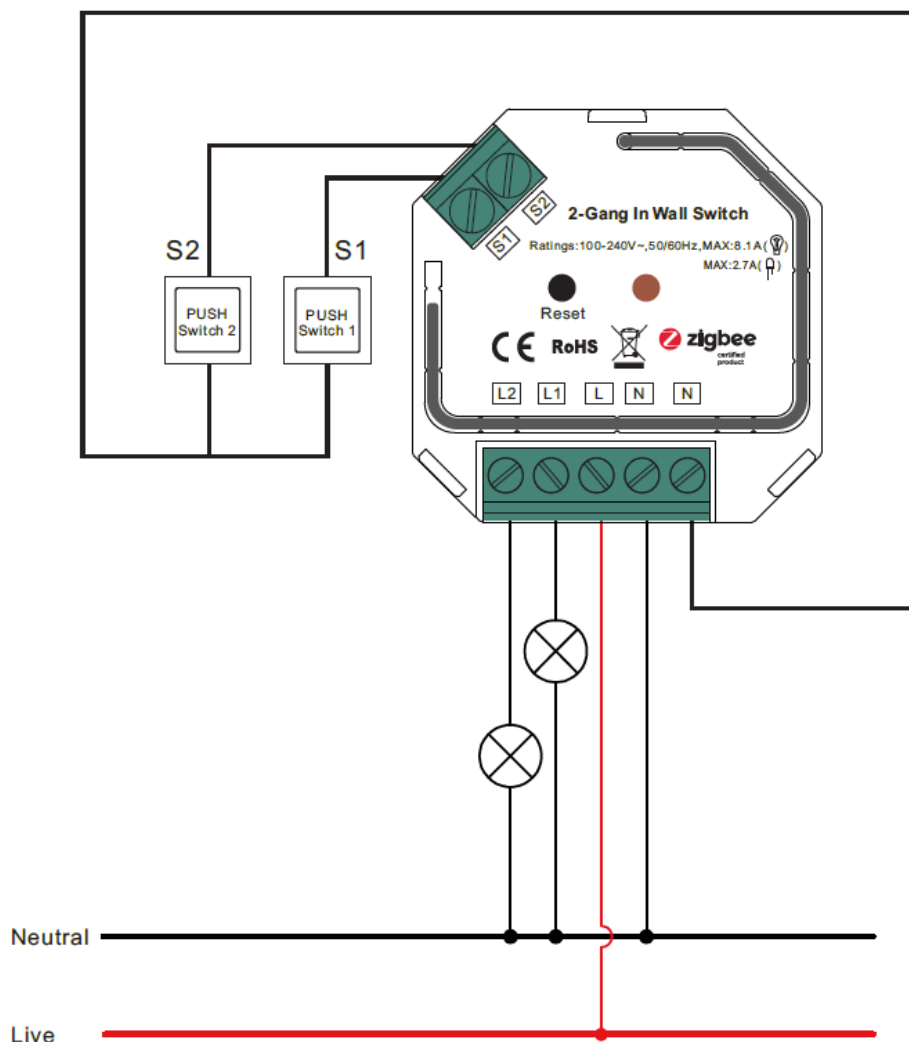
N – terminal for neutral lead

S1 – terminal for switch key No. 1

S2 – terminal for switch key No. 2

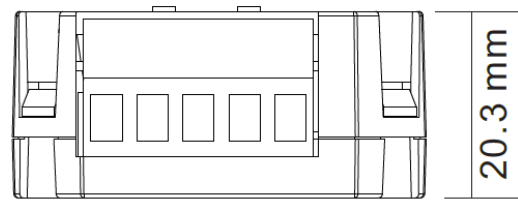
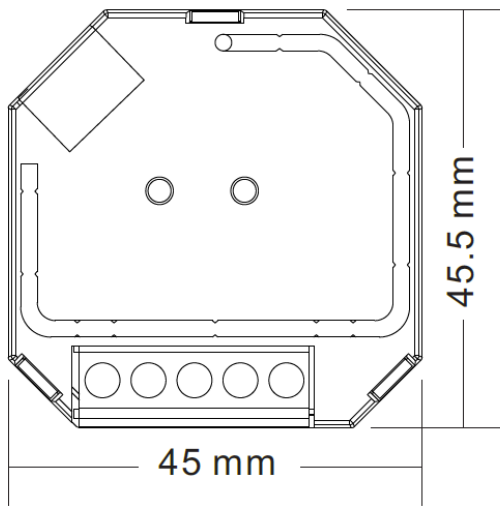
L1 – output terminal no. 1 for light load

L2 – output terminal no. 2 for light load

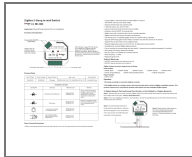


**Product Dimension**





## Documents / Resources



[Zigbee ZigBee 2-Gang In-wall Switch](#) [pdf] User Guide  
Zigbee, ZigBee, 2-Gang In-wall Switch