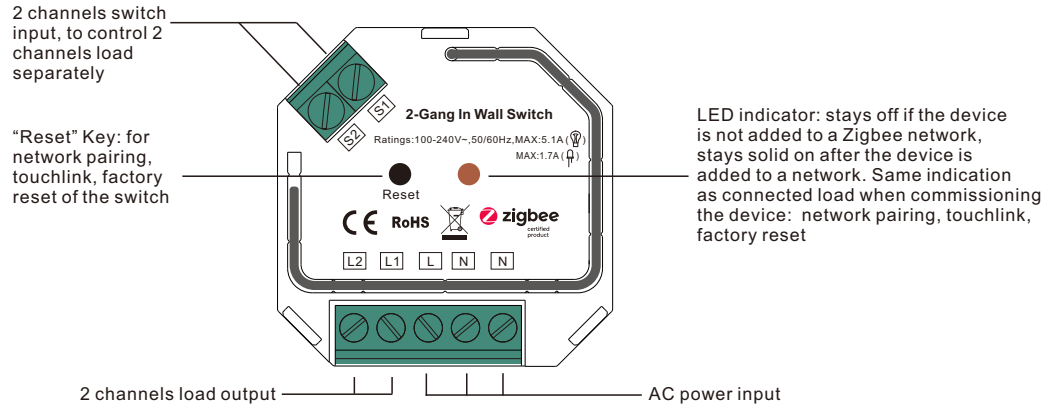


# ZigBee 2-Gang In-wall Switch



**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
	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.
	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:**

**Endpoint 0x01 - Channel 1:**

- 0x0000: Basic
- 0x0003: Identify
- 0x0004: Groups
- 0x0005: Scenes
- 0x0006: On/off

**Endpoint 0x02 - Channel 2:**

- 0x0000: Basic
- 0x0003: Identify
- 0x0004: Groups
- 0x0005: Scenes
- 0x0006: On/off

**Endpoint 0x0b - Whole device:**

- 0x0000: Basic
- 0x0702: Simple Metering
- 0x0b04: Electrical Measurement
- 0x0b05: Diagnostics
- 0x1000: ZLL Commissioning
- 0x0019: OTA

## Operation

**1.Do wiring according to connection diagram correctly.**

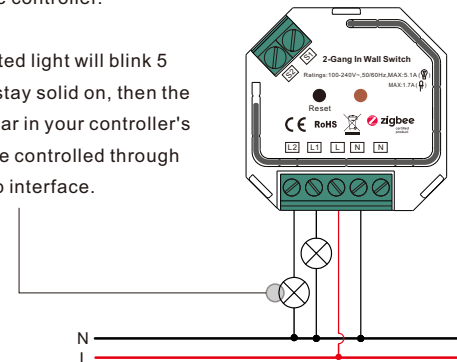
**2.This ZigBee device is a wireless receiver that communicates with a variety of ZigBee compatible systems. This receiver receives and is controlled by wireless radio signals from the compatible ZigBee system.**

**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.



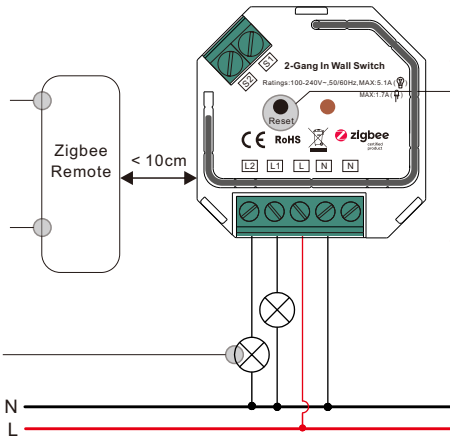
**Step 3:** power on the device, it will be set into network pairing mode (connected light flashes twice slowly), the network pairing mode will last until the device is added to a zigbee network.

#### 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.

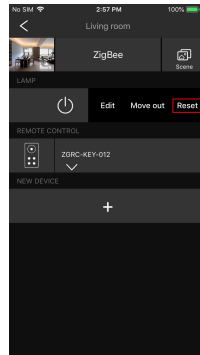
**Step 4:** There shall be indication on the remote for successful link and connected light will flash twice.



**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:** Add the device to a zigbee network, it will be set into Touchlink commissioning immediately after added, 180S timeout. Once timeout, reset power of the device to set it into touchlink commissioning again.

- 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

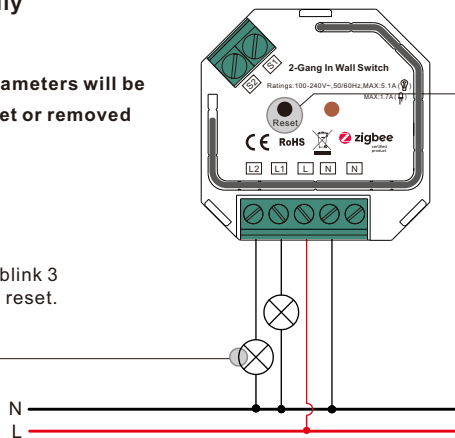


From your ZigBee controller or hub interface, choose to delete or reset the lighting device as instructed. The connected light blinks 3 times to indicate successful reset.

#### 6. Factory Reset Manually

**Note:** 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.

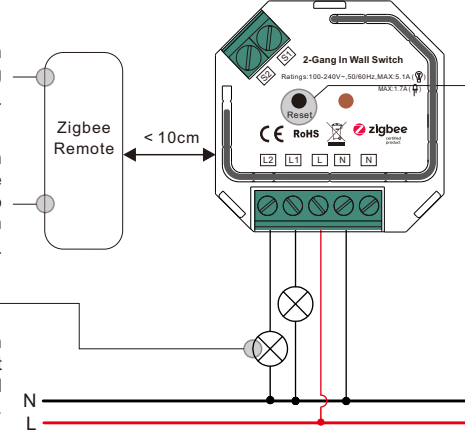
#### 7. Factory Reset through a Zigbee Remote (Touch Reset)

**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.



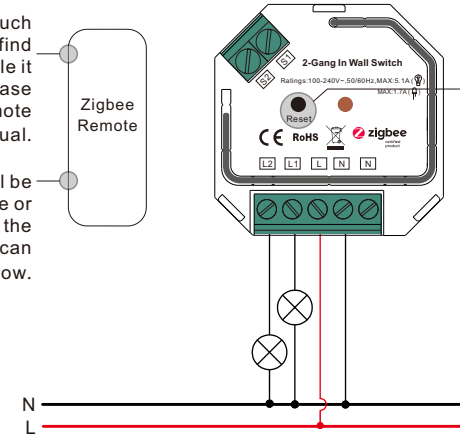
**Step 1:** Short press reset button 4 times to start TouchLink Commissioning, 180 seconds timeout, repeat this step.

#### 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.

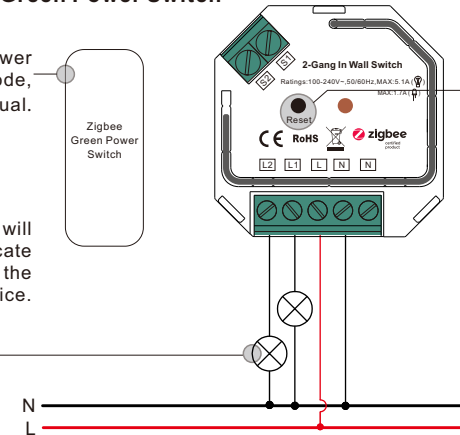


**Step 1:** Short press "Reset." button 3 times (Or reset power of the device (initiator node) 3 times) to start Find and Bind mode (connected light flashes slowly) to find and bind target node, 180 seconds timeout, repeat this step.

#### 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.



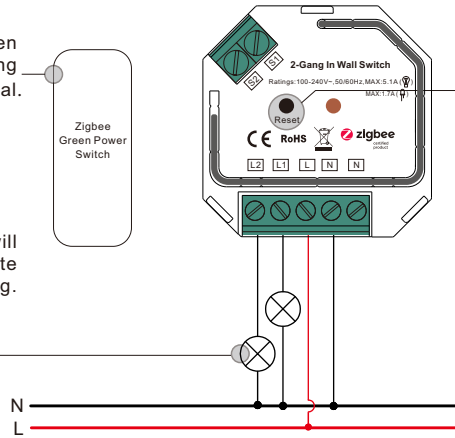
**Step 1:** Short press "Reset." button 4 times (Or reset power of the device 4 times) to start Learning to GP switch mode (connected light flashes twice), 180 seconds timeout, repeat this step.

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

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

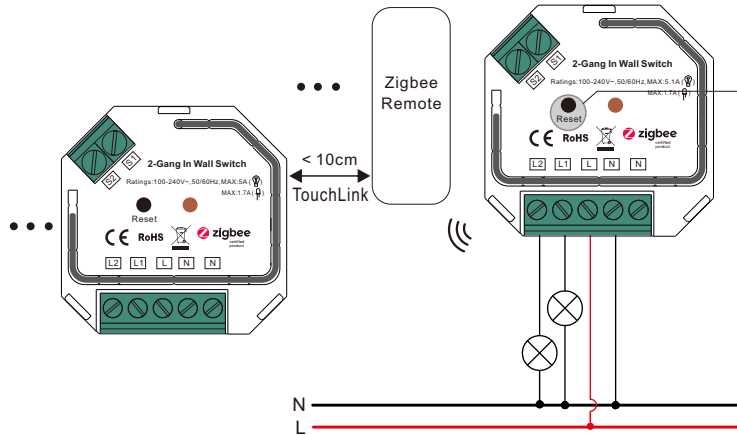
**Step 2:** Set the paired green power switch into Learning mode, please refer to its manual.

**Step 3:** Connected light will flash 4 times to indicate successful deleting.



**Step 1:** Short press "Reset." button 3 times (Or reset power of the device 3 times) to start delete Learning to GP switch mode (connected light flashes slowly), 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: 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.

## 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

**Supported Switch Types:**

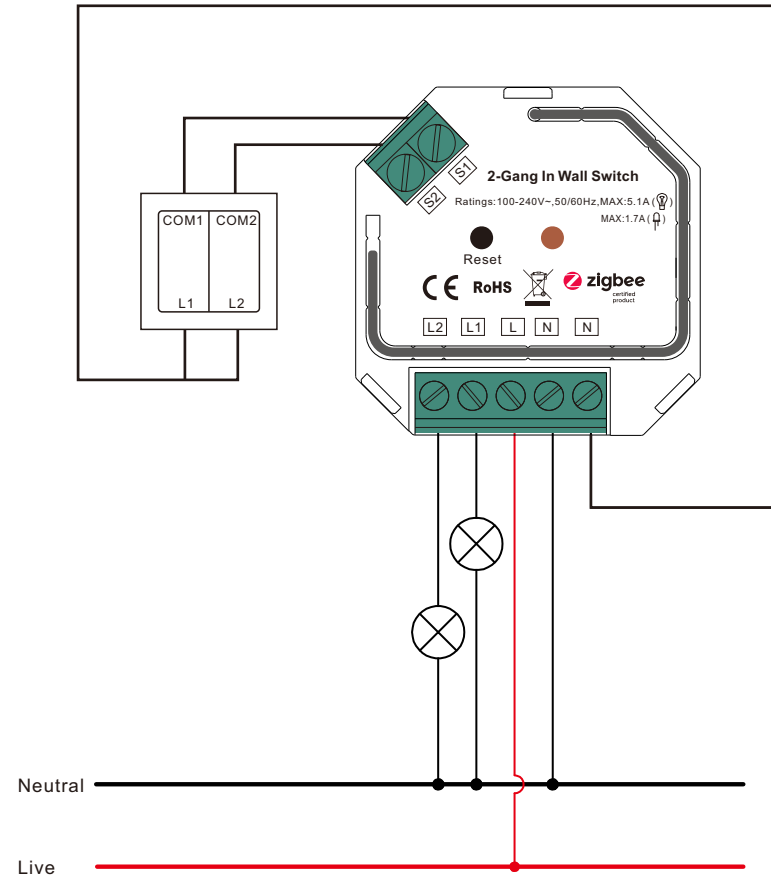
The switch types this device supports can be configured by factory setting:

1. Push Switch (factory default setting)

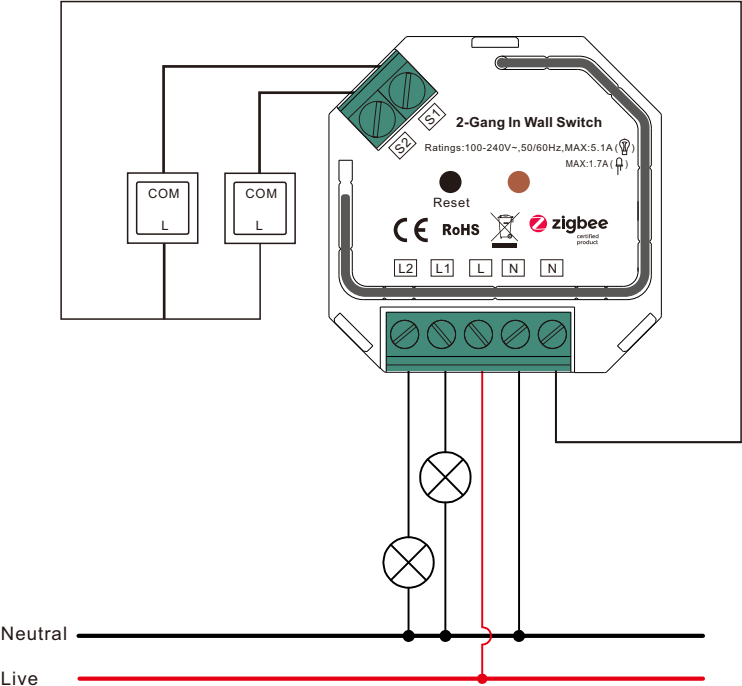
2. Toggle On/Off Switch (can be configured by factory setting upon request)

**1. Wiring Method 1: External Switches Control through Neutral Lead**

**1.1. With 1PC 2-Gang 1-Way Switch**

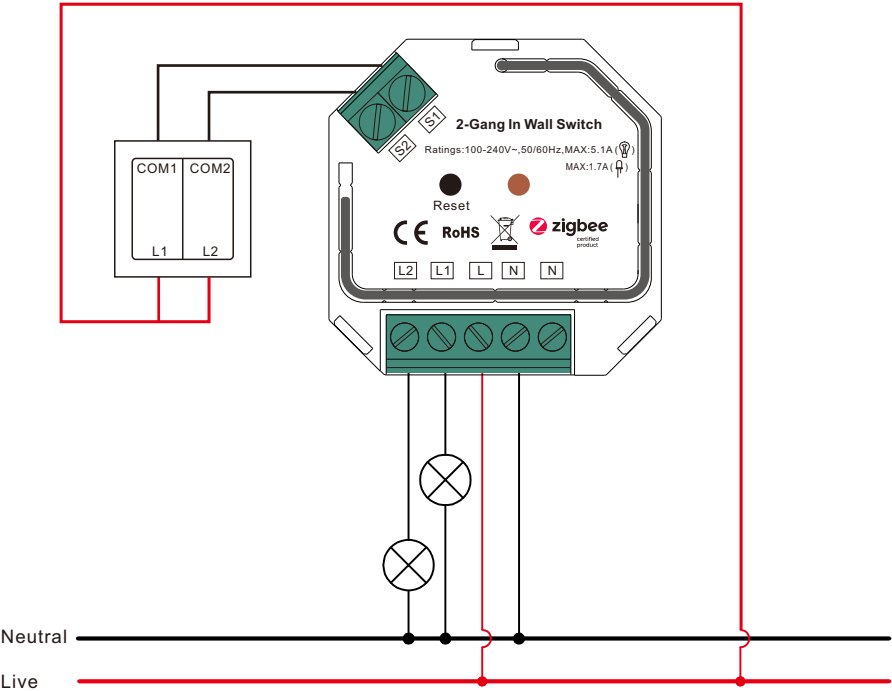


1.2. With 2PCS 1-Gang 1-Way Switches

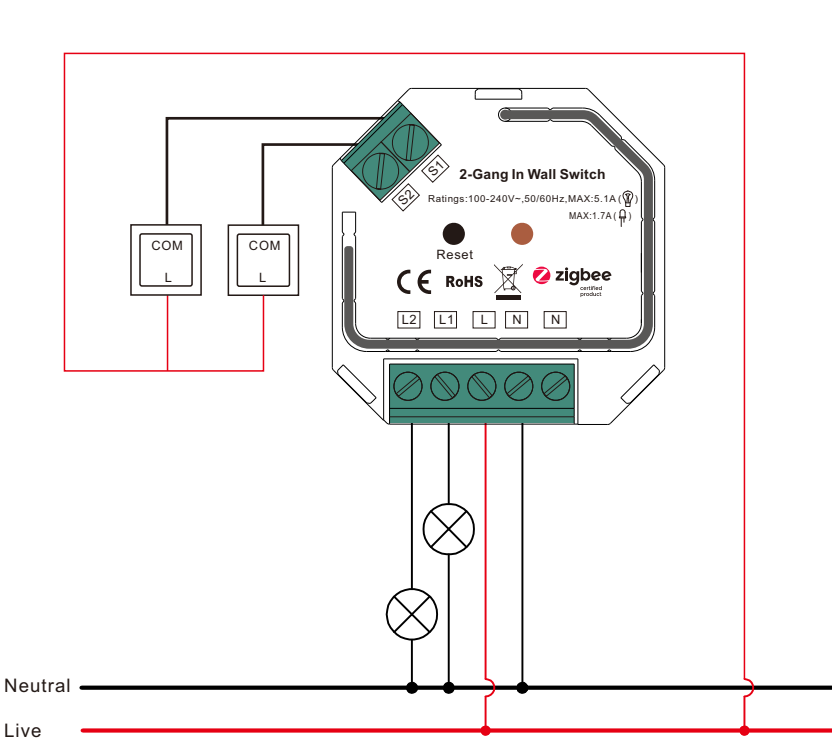


2. Wiring Method 2: External Switches Control through Live Lead

2.1. With 1PC 2-Gang 1-Way Switches



2.2. With 2PCS 1-Gang 1-Way Switches



Product Dimension

