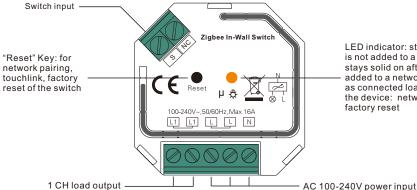


Important: Read All Instructions Prior to Installation

#### **Function introduction**



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

## **Product Data**

Input Voltage	Output Voltage	Output Current	Size(LxWxH)
100-240VAC	100-240VAC	16A max	45.5x45x20.3mm

Compatible Load Types				
Load Symbol	Load Type	Maximum Load	Remarks	
<b>→</b>	LED lamps with transformers	1220W @ 230V 580W @ 110V	Due to variety of LED lamp designs, maximum number of LED lamps is further dependent on power factor result when connected to switch.	
<b>→</b>	LED drivers	1220W @ 230V 580W @ 110V	Maximum permitted number of drivers is 1220W divided by driver nameplate power rating.	
-\	Incandescent lighting, HV Halogen lamps	3680W @ 230V 1760W @ 110V		
	Low voltage halogen lighting with electronic transformers	1220W @ 230V 580W @ 110V		
<b>—</b> ()=	Electrical appliances such as television, refrigerator, water heating etc.	3680W @ 230V 1760W @ 110V		

#### **Over Current Protection**

- When load current is over 16.1A for over 10 seconds, the relay will be forced to off and protected.
- When load power is over 3700W for over 5 seconds, the relay will be forced to off and protected.

- ZigBee in-wall switch based on latest ZigBee 3.0 protocol
- 100-240VAC wide input and output voltage
- · Supports resistive loads and capacitive loads
- 1 channel output, max. load 16A
- · Input and output with screw terminals, safe and reliable
- Enables to control ON/OFF of connected load
- · 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 toggle on/off switches
- Active power and energy metering functionality
- Mini size, easy to be installed into a standard size wall box
- Radio frequency : 2.4GHzWaterproof 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

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

#### **Output Clusters**

0x0702: Simple Metering

• 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**".

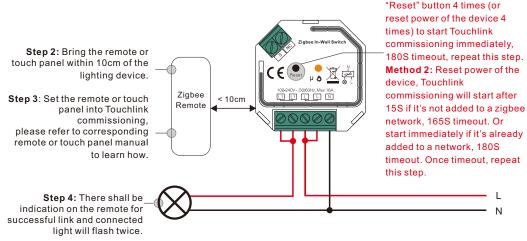
**Step 2**: From your ZigBee Controller or hub interface, choose to add lighting device and enter Pairing mode as instructed by the controller.



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

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.

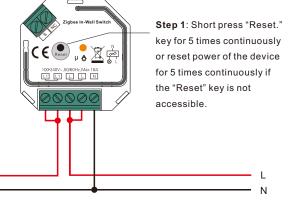
Step 1: Method 1: Short press

# 6. Factory Reset Manually

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

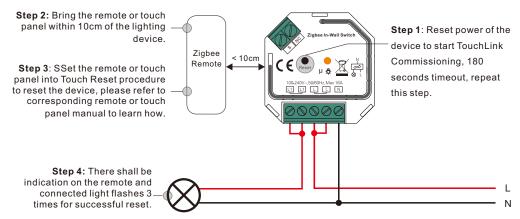
Note: 1) If the device is already at factory default setting, there is no indication when factory reset again .

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



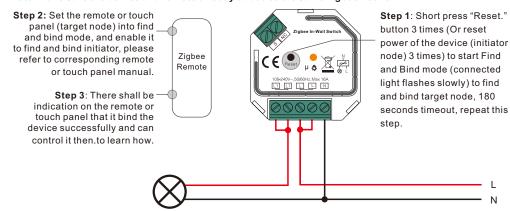
## 7. Factory Reset through a Zigbee Remote (Touch Reset)

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

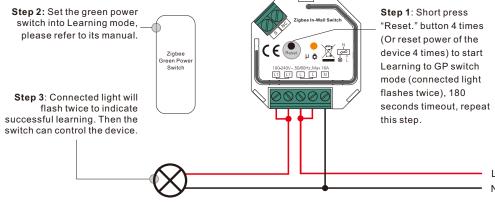


#### 8. Find and Bind Mode

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

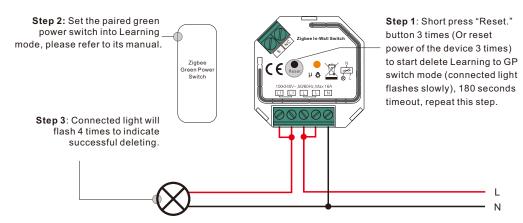


#### 9. Learning to a Zigbee Green Power Switch

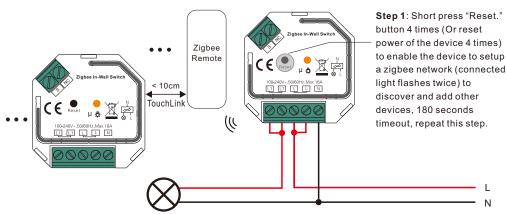


Note: Each device can learn to max. 20 zigbee green power switches.

## 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

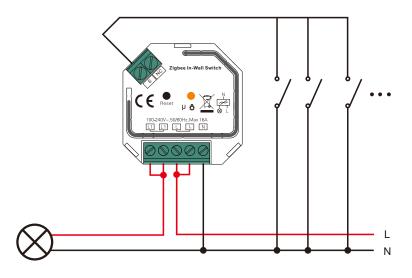
The device supports firmware updating through OTA, and will acquire new firmware from zigbee controller or hub every 10 minutes automatically.

### Wiring Diagram

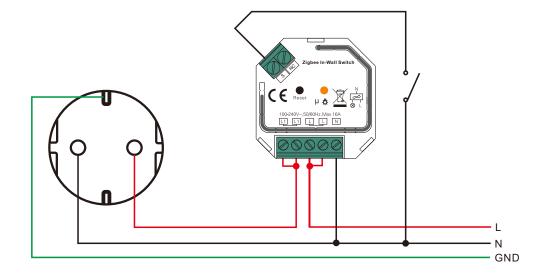
## Notes for the diagrams:

- L terminal for live lead
- N terminal for neutral lead
- L1 output terminals of the device (controlling connected light source)
- S terminal for external switch
- NC No Connection

#### 1) With Light Load



## 2) Connect With Socket



# **Product Dimension**

