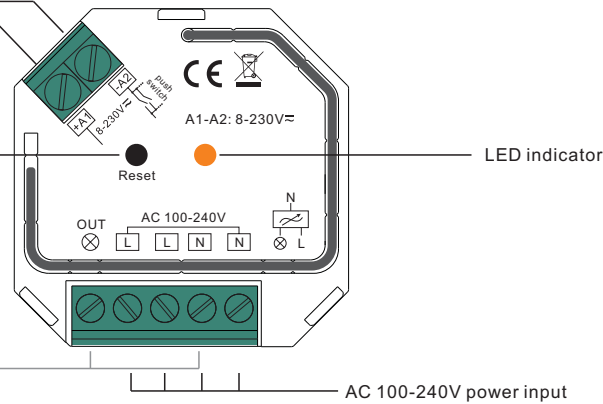# HV9105-ZB-ACSW

AC ZigBee In-wall Switch

Important: *Read All Instructions Prior to Installation*

Function introduction

Connect with 8-230V≂ push switch

"Reset" Key: for network pairing, touchlink, factory reset of the switch, turn on/off the load

LED indicator

A1-A2: 8-230V≂

Reset

OUT   AC 100-240V

N

1 CH 100-240VAC output

AC 100-240V power input

Product Data

Input Voltage	Output Voltage	Output Current	Size(LxWxH)
100-240VAC	100-240VAC	1.5A max	45.5x45x20.3mm

Compatible Load Types			
Load Symbol	Load Type	Maximum Load	Remarks
	LED lamps with transformers	200W @ 220V 100W @ 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	200W @ 220V 100W @ 110V	Maximum permitted number of drivers is 200W divided by driver nameplate power rating.
	Incandescent lighting, HV Halogen lamps	400W @ 220V 200W @ 110V	
	Low voltage halogen lighting with electronic transformers	200W @ 220V 100W @ 110V	

- 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, Up to 400W
- 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 remotes
- Compatible with universal ZigBee gateway products
- Can be controlled by universal 8-230V input single wire push switch
- Mini Size, Easy to be Installed into a standard 86*86mm 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

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

Output Clusters

0x0019: OTA

Operation

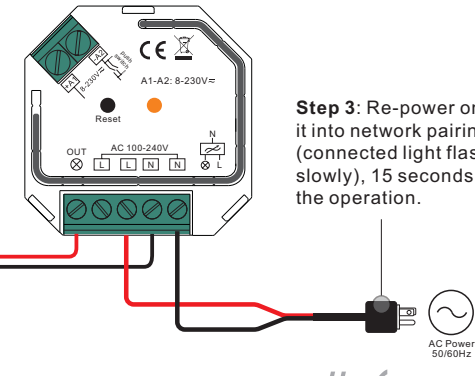**1.Do wiring according to connection diagram correctly.**

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.
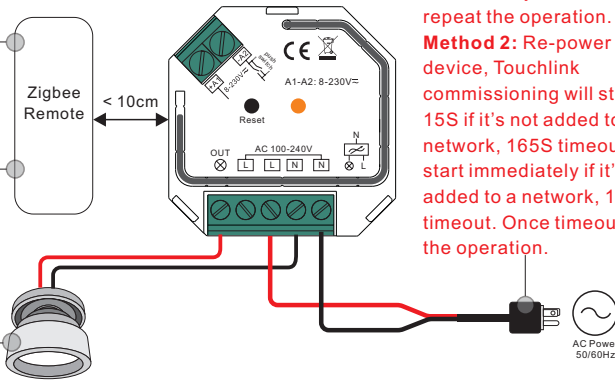

Step 3: Re-power on the device to set it into network pairing mode (connected light flashes twice slowly), 15 seconds timeout, repeat the operation.

AC Power 50/60Hz

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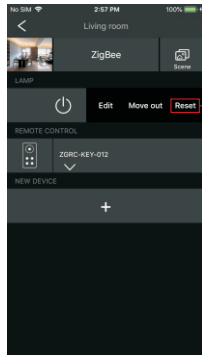
Step 4: There shall be indication on the remote for successful link and connected light will flash twice.

Zigbee Remote

< 10cm

Reset

A1-A2: 8-230V⎓

OUT   AC 100-240V
⊗   L   L   N   N   L

AC Power
50/60Hz

Step 1: Method 1: Short press "Reset" button (or re-power on the device) 4 times to start Touchlink commissioning immediately, 180S timeout, repeat the operation.
Method 2: Re-power on 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 the operation.

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) For Hue Bridge & Amazon Echo Plus, 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
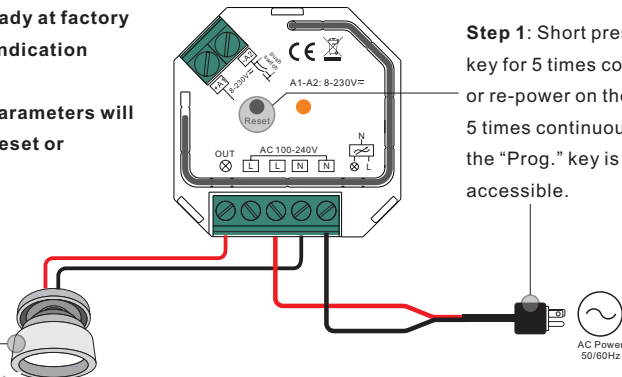
From your ZigBee controller or hub interface, choose to delete or reset the lighting device as instructed. The connected light blinks 3 times to indicate successful reset.

6. Factory Reset Manually

Note: 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.

A1-A2: 8-230V⎓

Reset

OUT   AC 100-240V
⊗   L   L   N   N   L

AC Power
50/60Hz

Step 1: Short press "Reset." key for 5 times continuously or re-power on the device for 5 times continuously if the "Prog." key is not accessible.
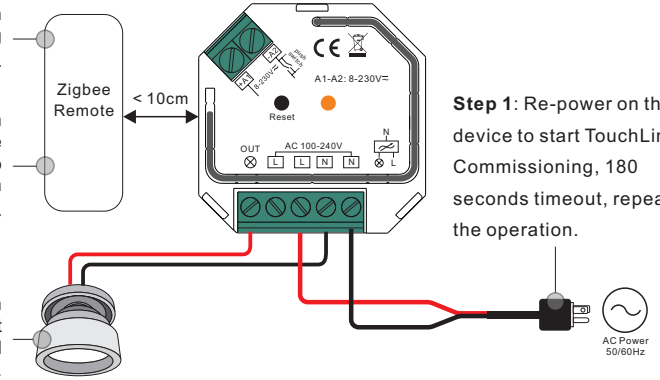
Step 2: Connected light will blink 3 times to indicate successful reset.

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: SSet 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.
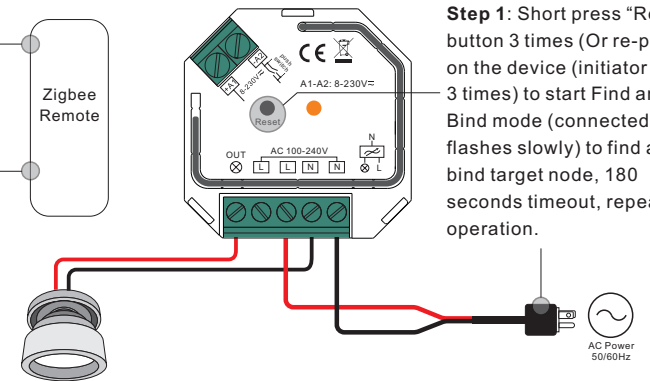
Zigbee Remote

< 10cm

Reset

A1-A2: 8-230V⎓

OUT   AC 100-240V
⊗   L   L   N   N   L

AC Power
50/60Hz

Step 1: Re-power on the device to start TouchLink Commissioning, 180 seconds timeout, repeat the operation.

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.

Zigbee Remote

Reset

A1-A2: 8-230V⎓

OUT   AC 100-240V
⊗   L   L   N   N   L
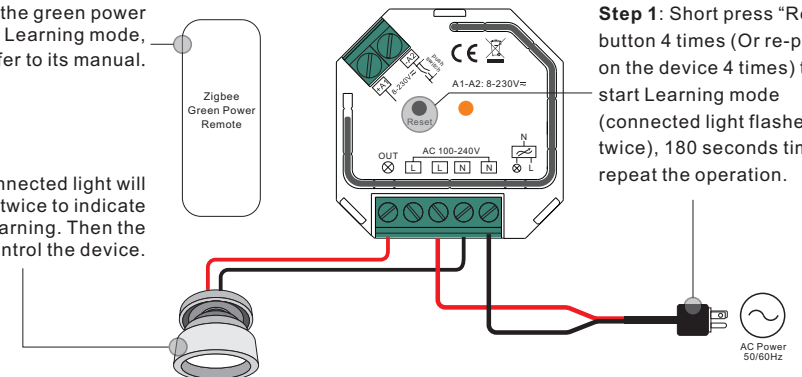
AC Power
50/60Hz

Step 1: Short press "Reset." button 3 times (Or re-power on 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 the operation.

9. Learning to a Zigbee Green Power Remote

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

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

Zigbee Green Power Remote

Reset

A1-A2: 8-230V⎓

OUT   AC 100-240V
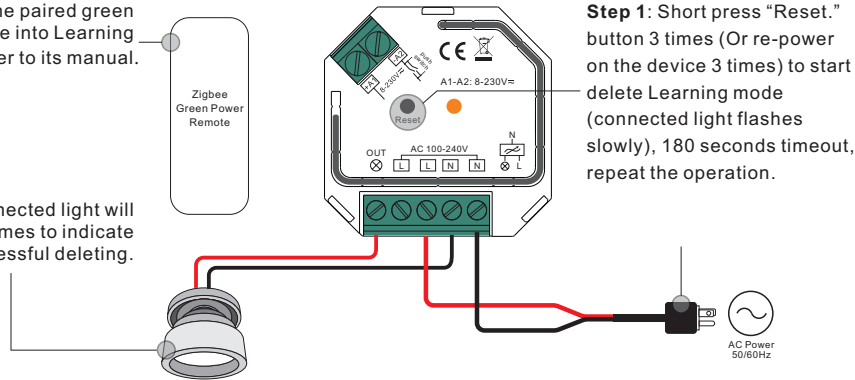⊗   L   L   N   N   L

AC Power
50/60Hz

Step 1: Short press "Reset." button 4 times (Or re-power on the device 4 times) to start Learning mode (connected light flashes twice), 180 seconds timeout, repeat the operation.

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

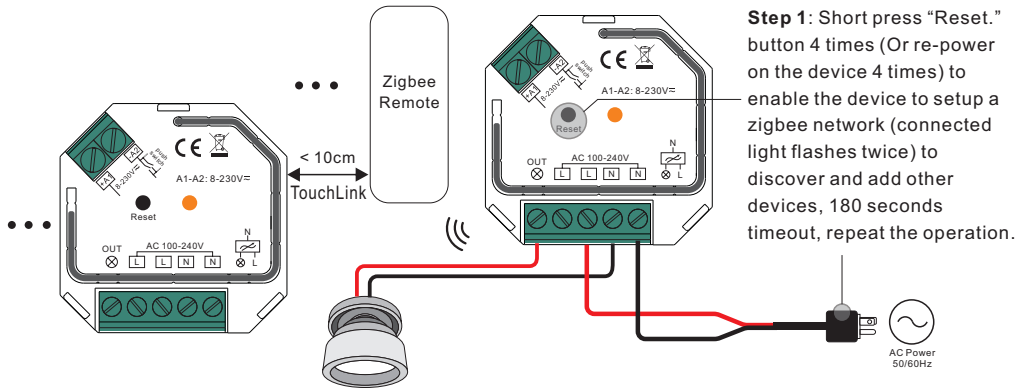## 10. Delete Learning to a Zigbee Green Power Remote

Step 2: Set the paired green power remote 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 re-power on the device 3 times) to start delete Learning mode (connected light flashes slowly), 180 seconds timeout, repeat the operation.

Zigbee Green Power Remote

A1-A2: 8-230V⎓

Reset

OUT   AC 100-240V
⊗   L L N N   L

AC Power 50/60Hz

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

Zigbee Remote

< 10cm
TouchLink

A1-A2: 8-230V⎓

Reset

OUT   AC 100-240V
⊗   L L N N   L

Step 1: Short press "Reset." button 4 times (Or re-power on 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 the operation.

A1-A2: 8-230V⎓

Reset

OUT   AC 100-240V
⊗   L L N N   L

AC Power 50/60Hz

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.

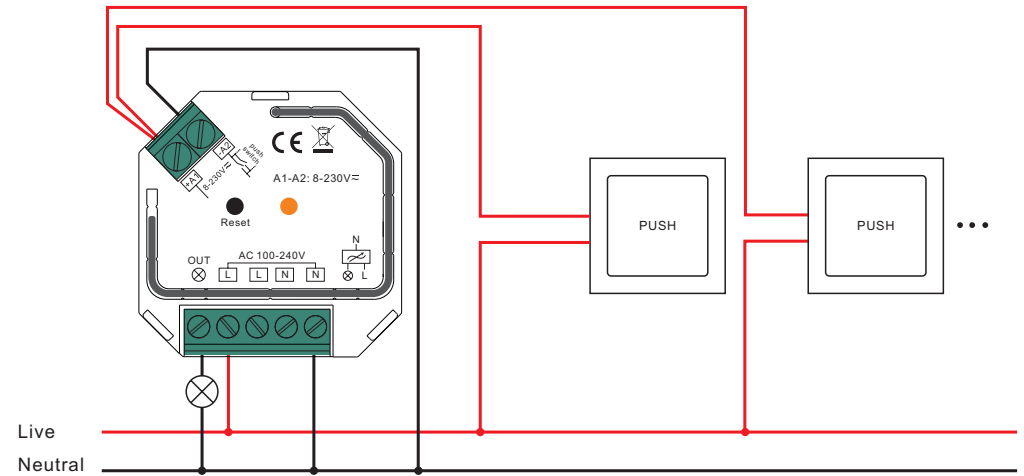**Note: 1) Each added device can link and be controlled by max. 30 added remotes.**

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

(1)With Push

A1-A2: 8-230V⎓

Reset

OUT   AC 100-240V
⊗   L L N N   L

PUSH   PUSH   ...

Live

Neutral

(2)With Push LV

A1-A2: 8-230V⎓

Reset

OUT   AC 100-240V
⊗   L L N N   L

PUSH LV

V-   0V+
Power Supply
N   L

Live

Neutral