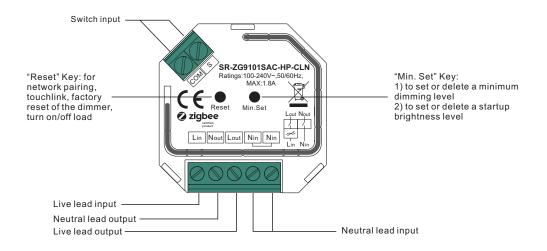
ZigBee AC Phase Cut Dimmer

70110004



Important: Read All Instructions Prior to Installation

Function introduction



Product Data

Input Voltage	Output Voltage	Output Current	Allowed Inrush Current	Size(LxWxH)
100-240VAC	100-240VAC	1.8A max	Cold Start 75A max.	45.5x45x20.3mm

Compatible Load Types					
Load Symbol	Load Type	Maximum Load	Remarks		
- ≱	Dimmable LED lamps	200W @ 230V 100W @ 110V	Due to variety of LED lamp designs, maximum number of LED lamps is further dependent on power factor result when connected to dimmer.		
→	Dimmable LED drivers	200W @ 230V 100W @ 110V	Maximum permitted number of drivers is 200W divided by driver nameplate power rating.		
-\	Incandescent lighting, HV Halogen lamps	400W @ 230V 200W @ 110V			
	Low voltage halogen lighting with electronic transformers	200W @ 230V 100W @ 110V			

- ZigBee AC phase cut dimmer 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
- · Both leading edge version and trailing edge version are available for choosing, default factory setting is trailing edge
- Enables to control ON/OFF and light intensity of connected triac dimmable led light or led driver
- 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 push switches or momentary switches
- Mini size, easy to be installed into a standard size 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 0x0008: Level Control 0x0b05: Diagnostics

Output Clusters

• 0x0019: OTA

Operation

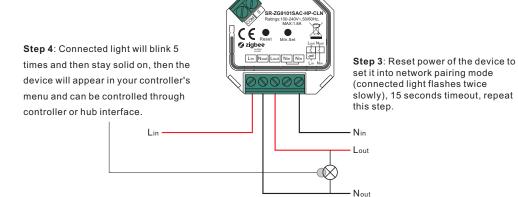
1.Do wiring according to connection diagram correctly.

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.

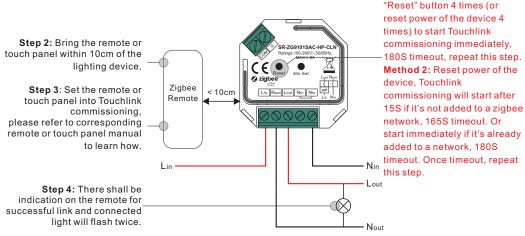
3. Zigbee Network Pairing through Coordinator or Hub (Added to a Zigbee Network)

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.



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.

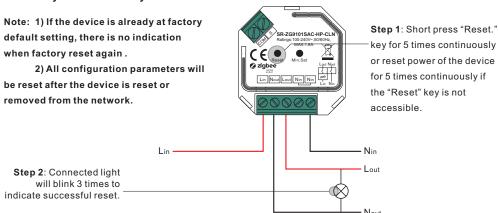
5. Removed from a Zigbee Network through Coordinator or Hub Interface



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.

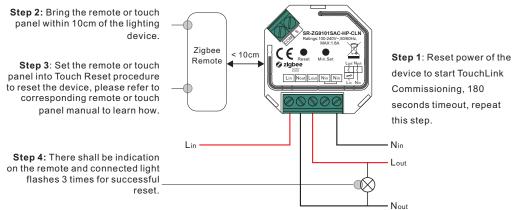
Step 1: Method 1: Short press

6. Factory Reset Manually



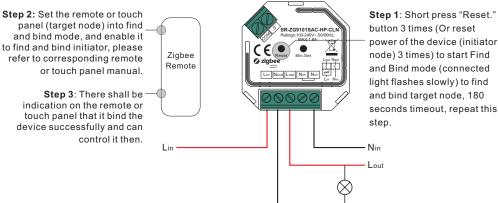
7. Factory Reset through a Zigbee Remote (Touch Reset)

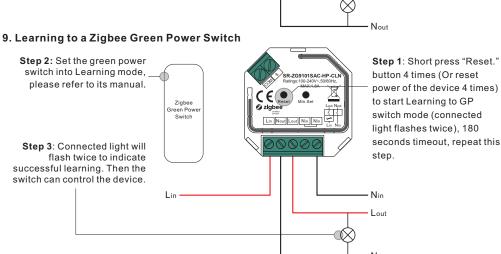
Note: Make sure the device already added to a network, the remote added to the same one or not added to any network.



8. Find and Bind Mode

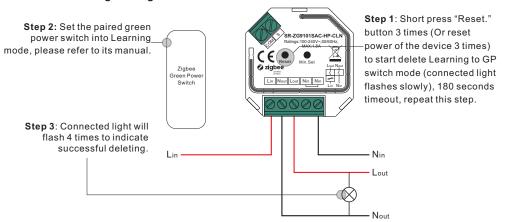
Note: Make sure the device and remote already added to the same zigbee network.



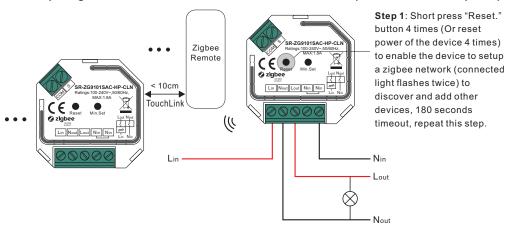


Note: Each device can learn to max. 20 zigbee green power switches.

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.

13.Setting minimum brightness:

Adjust brightness to a desired level from zigbee hub or controller interface or a remote, then press and hold down "Min. Set" key until connected light flashes, the minimum dimming level is set successfully, then the connected load can only be dimmable between this minimum brightness and 100% brightness.

The dimming range of this dimmer is 1%-100%, but some load types may flicker when dimmed to 1%, thus a minimum brightness shall be set higher than 1% to avoid flickering during dimming process.

14.Delete the minimum brightness:

Adjust the brightness to 100% from zigbee hub or controller interface or a remote, then press and hold down the "Min. Set" key on the dimmer until connected light flashes, which means minimum brightness is deleted successfully.

15.Set Startup Brightness

Step 1: adjust the brightness of connected load to a desired level between 1%-50%.

Step 2: double click "Min. set" key to set the brightness adjusted in step 1 as startup brightness, then the load will first go to startup brightness when turned on every time, then drop down to the brightness before last time turned off.

Note: startup brightness setting function is to avoid the phenomenon that some dimmable LED drivers can not be turned on after turned off at a very low brightness level. Once setting a startup brightness, if the startup brightness is higher than the brightness before turned off, the driver will first go to the startup brightness after turned on then drop down to the level before turned off. If the startup brightness is lower than the brightness before turned off, the driver will directly go to the brightness before turned off.

16.Delete Startup Brightness

Step 1: adjust the brightness of connected load to 0%.

Step 2: double click "Min. set" key to delete the previously set startup brightness.

17. Controlled by a push switch:

Once connected with a push switch, click the push switch to switch ON/OFF, press and hold down it to increase/decrease light intensity.

Wiring diagram

Notes for the diagrams:

Lin - terminal for live lead input

Nin - terminal for neutral lead input

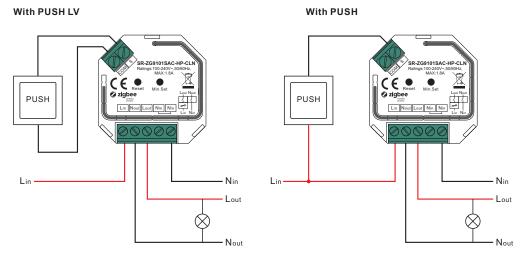
Lout - terminal for live lead output

Nout - terminal for neutral lead output

S1 - terminal for switch (has the option of entering the device in inclusion/exclusion mode)

COM - terminal for grounding to the switch connected to the dimmer

1) With Single Push Switch



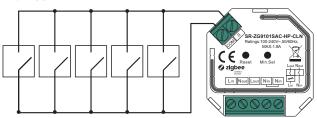
NOTE: Switch connected to the S1 terminal activates the basic functionality of the dimmer (turning the light on/off, dimming).

Note:

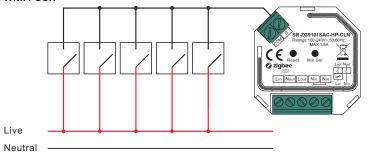
- 1) The max. allowed inrush current of this dimmer is cold start 75A, when connecting LED drivers or LED luminaries in parallel, please make sure that the total inrush current of the parallel connected drivers or luminaries do not exceed the max. allowed inrush current of this dimmer.
- 2) The recommended number of parallel connected drivers or luminaries shall not be more than 10, otherwise the dimmer may be damaged due to the high inrush current at the moment of starting.

2) With Multiple Push Switches for Multiple Control Points

With PUSH LV



With PUSH



Note:

- 1) The max. allowed inrush current of this dimmer is cold start 75A, when connecting LED drivers or LED luminaries in parallel, please make sure that the total inrush current of the parallel connected drivers or luminaries do not exceed the max. allowed inrush current of this dimmer.
- 2) The recommended number of parallel connected drivers or luminaries shall not be more than 10, otherwise the dimmer may be damaged due to the high inrush current at the moment of starting.

This phase dimmer adopts leading edge dimming (forward phase control) or trailing edge dimming (reverse phase control), two versions are available for choosing, default factory setting is trailing edge, leading edge version available upon request. Please make sure the connected loads support the control type you choose. Please refer to the user manual of the load or consult the supplier of the load.

Product Dimension

