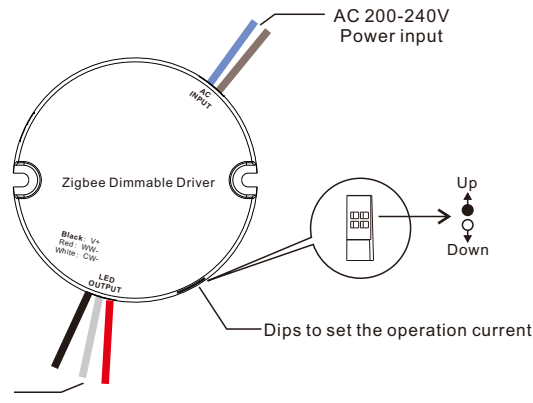


9W ZigBee CCT LED Driver(constant current)



Important: Read All Instructions Prior to Installation

Function introduction

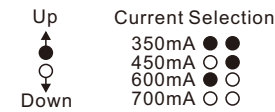


Product Data

Output	Current	350mA	450mA	600mA	700mA
	DC Voltage Range	6-25V DC	6-20V DC	6-15V DC	6-12V DC
	Rated Power	9W	9W	9W	9W
Input	Voltage Range	200-240V AC			
	Frequency	50/60Hz			
	Power Factor (Typ.)	>0.9			
	Efficiency (Typ.)	80% @ 230VAC			
	Input Current	55mA @ 230VAC			
	Inrush Current (Typ.)	COLD START Max. 8A @ 230VAC			
Control	Dimming Interface	Zigbee 3.0			
	Dimming Range	0.1%-100%			
	Dimming Method	Amplitude dimming (PWM dimming under 1%)			
Protection	Short Circuit	Yes, auto recovery after fault removed			
	Over Voltage	Yes, auto recovery after fault removed			
	Over Temperature	Yes, auto recovery after fault removed			
Environment	Working Temp.	-20°C ~ +45°C			
	Max. Case Temp.	10% ~ 95% RH non-condensing			
	Working Humidity	85°C (Ta="45°C")			
	Storage Temp. & Humidity	-40°C ~ +80°C, 10% ~ 95% RH			

Safety&EMC	Safety Standards	EN61347-1, EN61347-2-13
	Withstand Voltage	I/P-O/P: 3.75KVAC
	EMC Emission	EN55015, EN61000-3-2, EN61000-3-3
	EMC Immunity	EN61547, EN61000-4-2,3,4,5,6,8,11, surge immunity Line-Line 0.5KV
Others	MTBF	190800H, MIL-HDBK-217F @ 230VAC at full load and 25 °C ambient temperature
	Dimension	Φ57*24 mm (Φ*H)

Dips to set the operation current

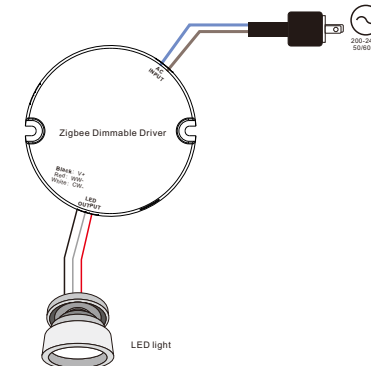


- Dimmable LED driver for tunable white, ZigBee device based on ZigBee 3.0 protocol
- Max. output power 9W total, 2 channels 350-700mA constant current output
- Class II power supply, full isolated plastic case
- Built-in active PFC function, high power factor and efficiency
- Amplitude dimming (PWM dimming under 1%)
- Deep and smooth dimming to 0.1%, flicker free
- Standby power consumption less than 0.5W, meet latest ERP requirements
- Enables to control ON/OFF, light intensity and CCT LED lights
- ZigBee end device that supports Touchlink commissioning
- Can directly pair to a compatible ZigBee remote via Touchlink
- 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
- Compatible with universal CCT ZigBee remotes
- Waterproof grade: IP20, suitable for indoor LED lighting applications
- 5 years warranty

Safety & Warnings

- DO NOT install with power applied to device.
- DO NOT set operation current with power applied to device.
- DO NOT expose the device to moisture.

Wiring Diagram



Operation

1. Do wiring according to connection diagram correctly.

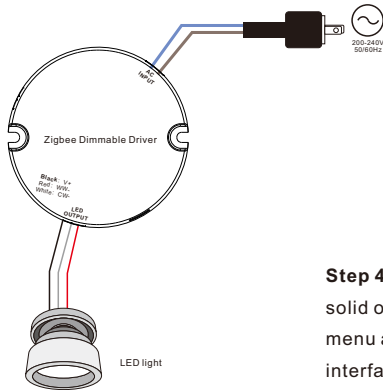
2. This ZigBee device is a wireless receiver that communicates with a variety of ZigBee compatible systems. This receiver receives and is controlled by wireless radio signals from the compatible ZigBee system.

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: Re-power on the device to set it into network pairing mode (connected light flashes twice slowly), 30 seconds timeout, repeat the operation.

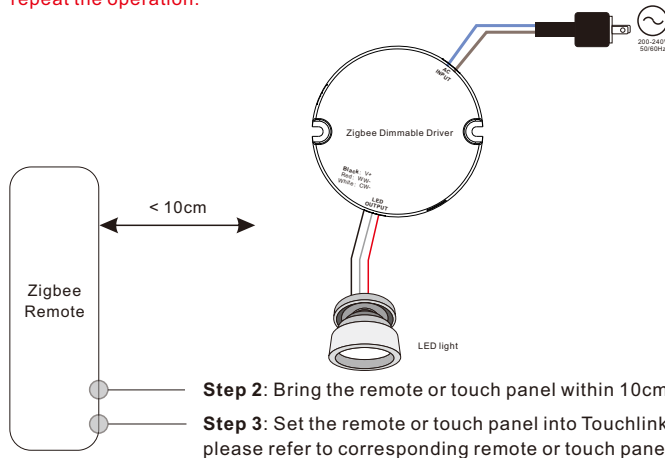


Step 4: Connected light will blink 5 times and then stay solid on, then the device will appear in your controller's menu and can be controlled through controller or hub interface.

4. TouchLink to a Zigbee Remote

Step 1: Method 1: Short press "Prog" 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 30S if it's not added to a zigbee network, 150S timeout. Or start immediately if it's already added to a network, 180S timeout. Once timeout, repeat the operation.



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.

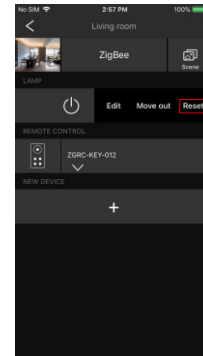
Note: 1) Directly TouchLink (both not added to a ZigBee network), each device can link with 1 remote.

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 gateway first then TouchLink.

4) After TouchLink, the device can be controlled by the linked remotes.

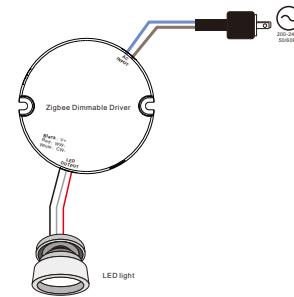
5. Removed from a Zigbee Network through Coordinator or Hub Interface



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

Step 1: Reset power of the device for 5 times continuously.



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

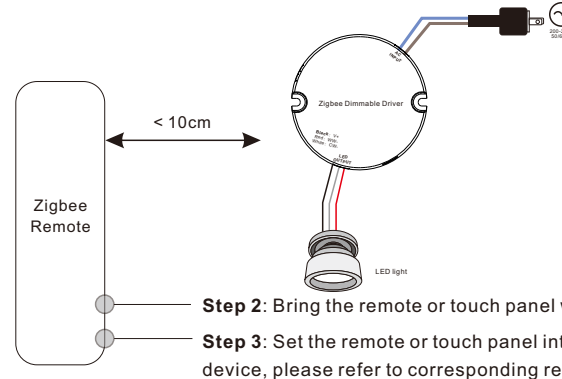
Note: 1) If the device is already at factory default setting, there is no indication when factory reset again.

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.

Step 1: Reset power of the device to start TouchLink Commissioning, 180 seconds timeout, repeat this step.



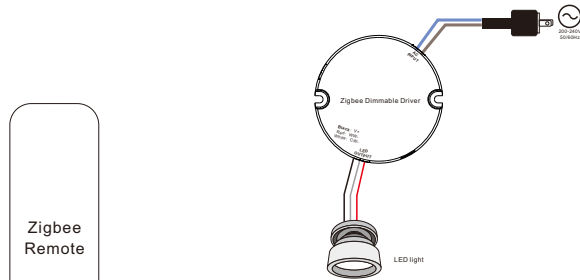
Step 2: Bring the remote or touch panel within 10cm of the lighting device.

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.

8. Find and Bind Mode

Step 1: 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.

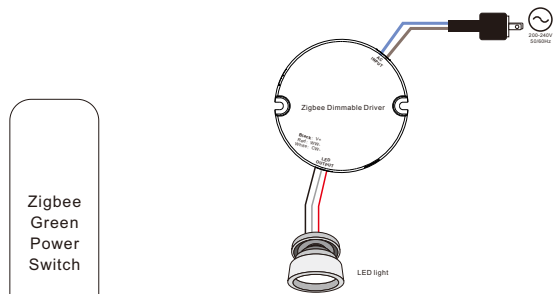


Step 2: Set the remote or touch panel (target node) into find and bind mode, and enable it to find and bind initiator, please refer to corresponding remote or touch panel manual.

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

9. Learning to a Zigbee Green Power Switch

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



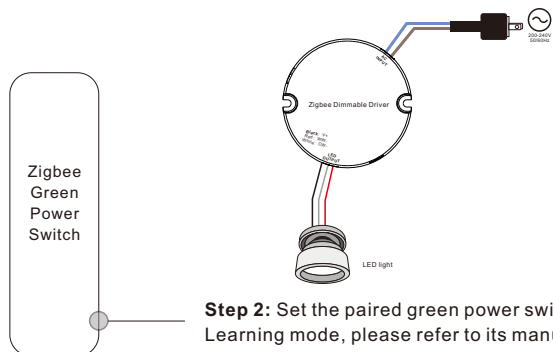
Step 2: Set the green power switch into Learning mode, please refer to its manual.

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

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

10. Delete Learning to a Zigbee Green Power Switch

Step 1: 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.

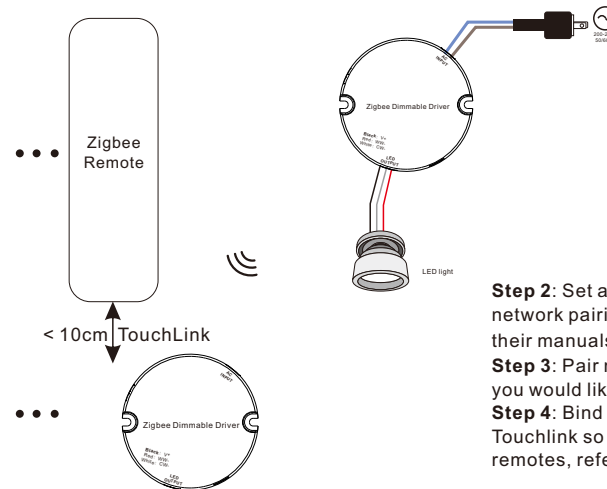


Step 2: Set the paired green power switch into Learning mode, please refer to its manual.

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

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

Step 1: 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. ZigBee Clusters the device supports are as follows:

Input Clusters

- 0x0000: Basic
- 0x0003: Identify
- 0x0004: Groups
- 0x0005: Scenes
- 0x0006: On/off
- 0x0008: Level Control
- 0x0300: Color Control
- 0x0b05: Diagnostics

Output Clusters

- 0x0019: OTA

13. OTA

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

Product Dimension

