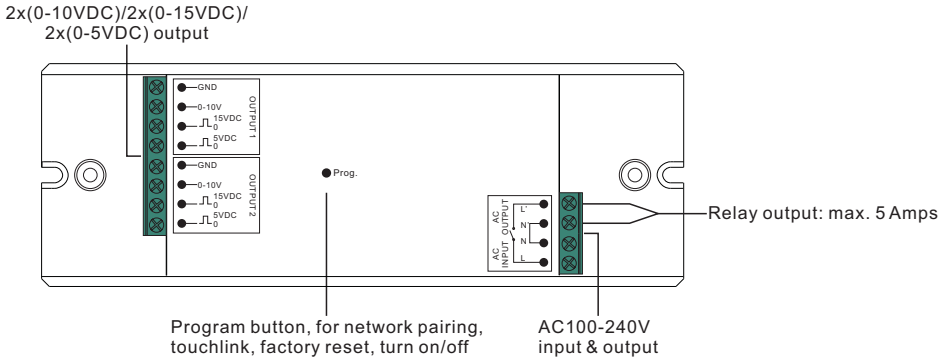
ZigBee to 0-10V/PWM Dimmer

09.ZG1FM.04281

Important: *Read All Instructions Prior to Installation*

Function introduction



Product Data

Input Voltage	Input Current	Output Power	Output Current	Size(LxWxH)
100-240VAC	60mA max	2x(0-5VDC)/2x(0-10VDC)/2x(0-15VDC)	20mA max	170x59x29mm

- ZigBee to 0-10V/PWM dimmer based on ZigBee 3.0
- 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
- Enables to add devices to the self-formed zigbee network
- Supports find and bind mode to bind a ZigBee remote directly without coordinator
- Compatible with universal ZigBee gateway products
- Compatible with single color ZigBee remote
- Waterproof grade: IP20

Safety & Warnings

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

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.

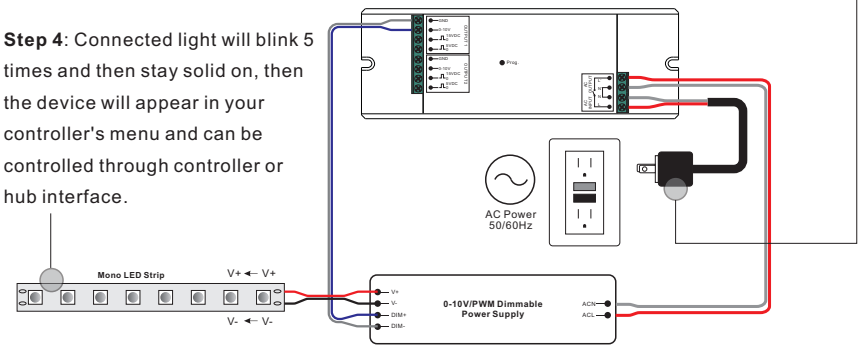
3. Zigbee Network Pairing through Coordinator or Hub (Added to a Zigbee Network)

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), 15 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.

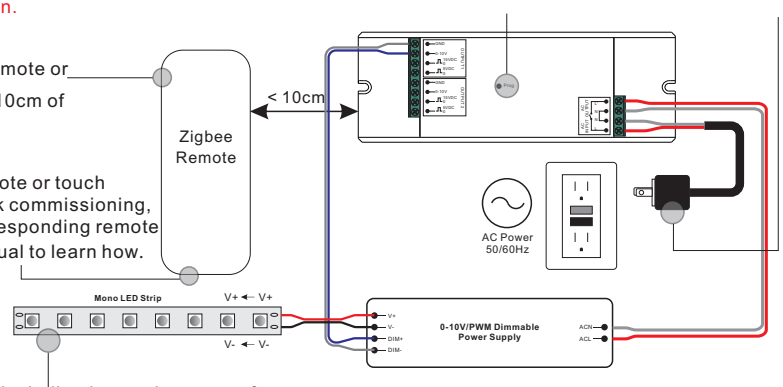


4. TouchLink to a Zigbee Remote

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 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.

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

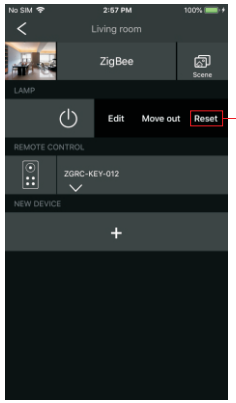
Step 3: Set the remote or touch panel into Touchlink commissioning, please refer to corresponding remote or touch panel manual to learn how.



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) 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

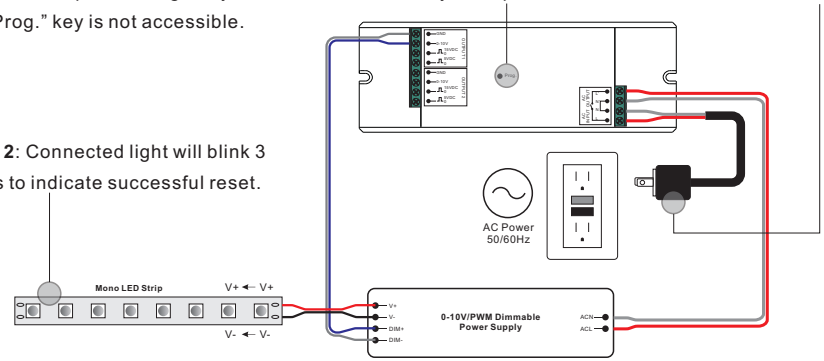


From your ZigBee controller or hub interface, choose to delete or reset the lighting device as instructed. The connected light blinks 3 times to indicate successful reset.

6. Factory Reset Manually

Step 1: Short press “Prog.” 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.



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

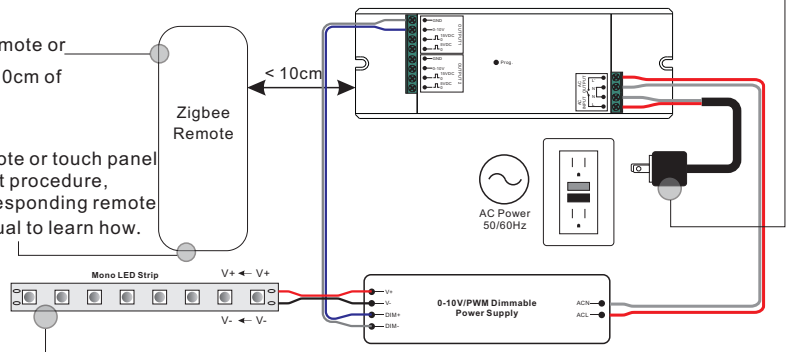
2) All configuration parameters will be reset after the device is reset or removed from the network.

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

Step 1: Re-power on the device to start TouchLink Commissioning, 180 seconds 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 Reset procedure, please refer to corresponding remote or touch panel manual to learn how.



Step 4: There shall be indication on the remote and connected light will flash 3 times for successful reset.

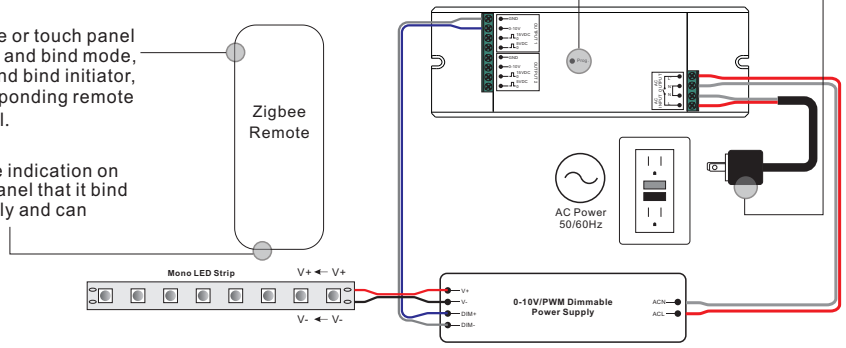
Note: Make sure the device already added to a network, the remote added to the same one or not added to any network.

8. Find and Bind Mode

Step 1: Short press “Prog.” 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.

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.

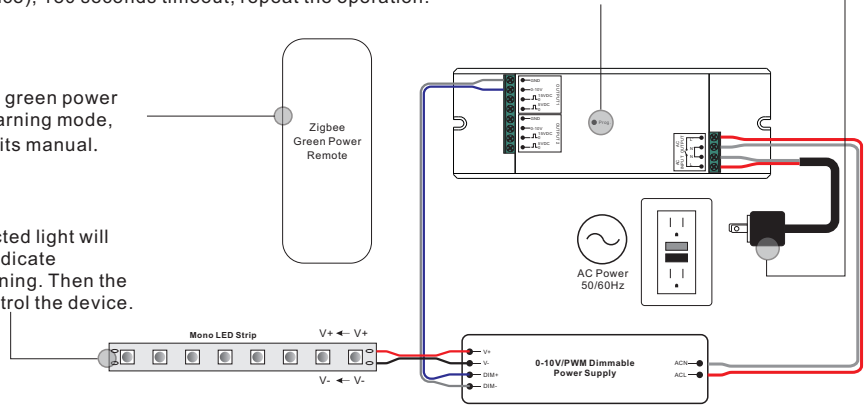


9. Learning to a Zigbee Green Power Remote

Step 1: Short press “Prog.” 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.

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.



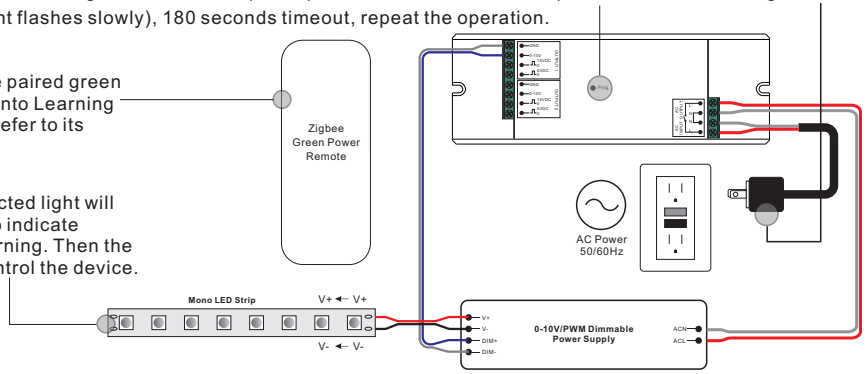
Note: Each device can learn to max. 20 zigbee green power remote.

10. Delete Learning to a Zigbee Green Power Remote

Step 1: Short press “Prog.” 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.

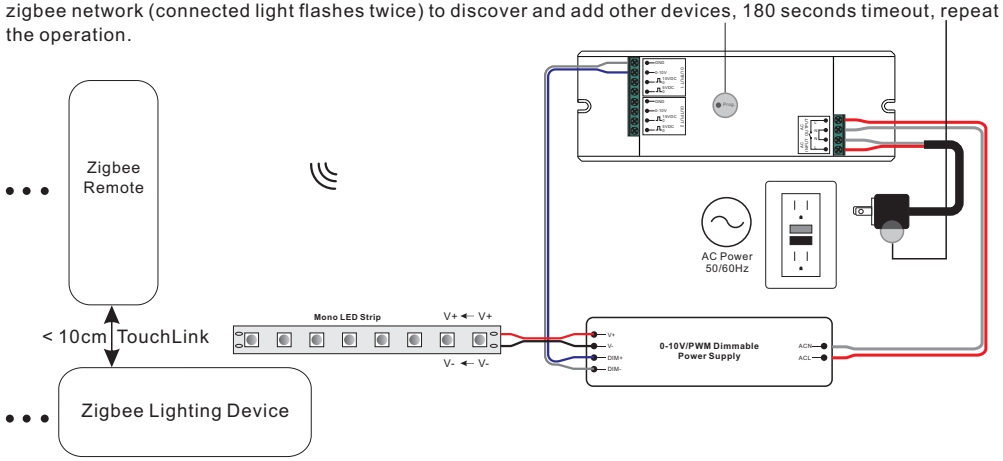
Step 2: Set the paired green power remote into Learning mode, please refer to its manual.

Step 3: Connected light will flash 4 times to indicate successful learning. Then the remote can control the device.



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

Step 1: Short press “Prog.” 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.



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 • 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.

Wiring Diagram

