

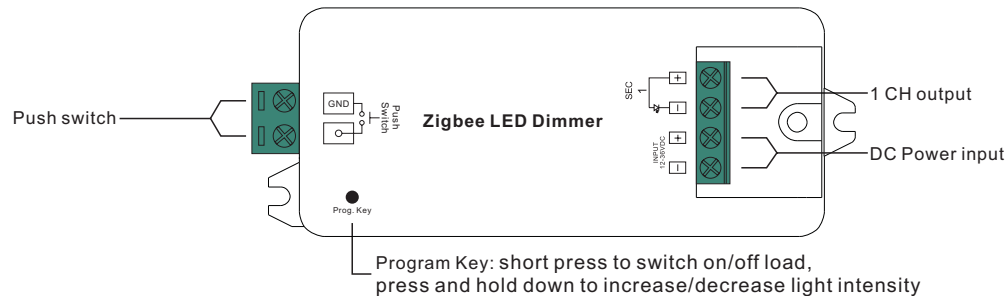
Valo Zigbee LED receiver 12V-36V - for single colour led strips 8A (VaLO-V1236-ZG-8A)

09.ZG901CS.04007



Important: Read All Instructions Prior to Installation

Function Introduction



Product Data

No.	Input Voltage	Output Current	Output Power	Remarks	Size(LxWxH)
1	12-36VDC	1x8A	1x(96-288)W	Constant voltage	95x37x20mm
2	12-36VDC	1x350mA	1x(4.2-12.6)W	Constant current	95x37x20mm
3	12-36VDC	1x700mA	1x(8.4-25.2)W	Constant current	95x37x20mm

- ZigBee LED dimming light device based on latest ZigBee 3.0 protocol
- Enables to control ON/OFF and light intensity of connected LED lights
- 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 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
- 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.

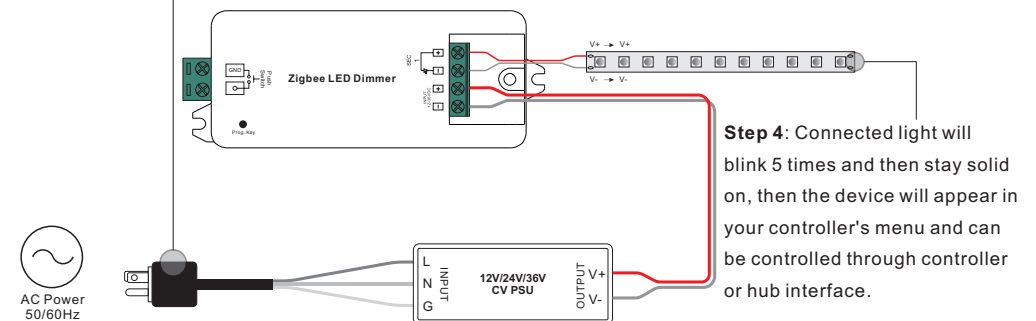
2. This ZigBee device is a wireless receiver that communicates with a variety of ZigBee compatible systems. This receiver receives and is controlled by wireless radio signals from the compatible ZigBee system.

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.

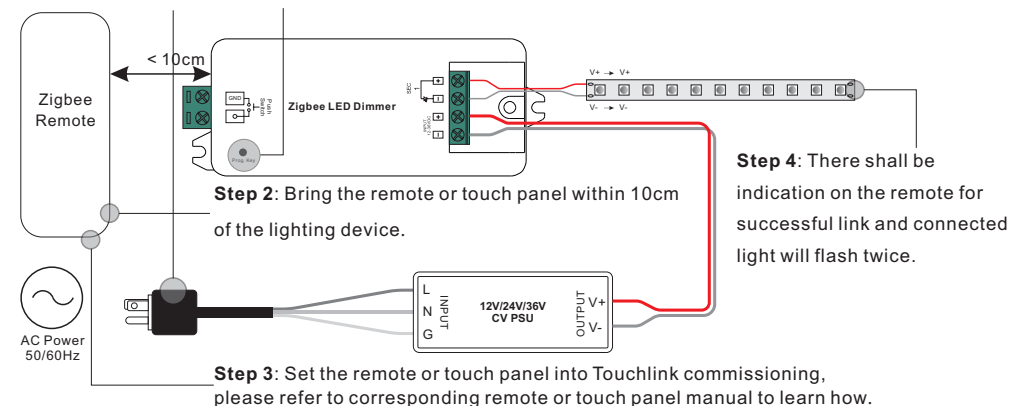
Step 3: Re-power on the device to set it into network pairing mode (connected light flashes twice slowly), 15 seconds timeout, repeat the operation.



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.

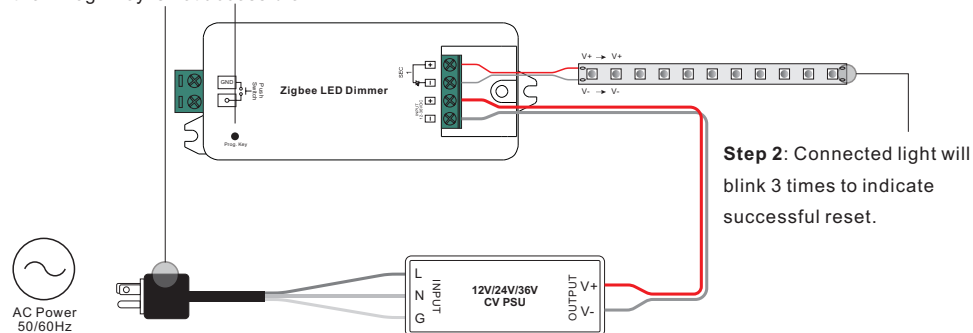
Method 2: Re-power on the device, Touchlink commissioning will start after 15S if it's not added to a zigbee network, 165S timeout. Or start immediately if it's already added to a network, 180S timeout. Once timeout, repeat the operation.



- 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.

LED
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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.



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

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

The diagram shows a Zigbee Remote (represented by a circle with a dot) positioned less than 10cm from a Zigbee LED Dimmer. The dimmer is connected to an AC Power source (50/60Hz) and a 12V/24V/36V CV PSU. The PSU's output is connected to a strip of LED lights. The remote is shown with a red arrow pointing towards the dimmer, indicating the proximity required for the reset procedure.

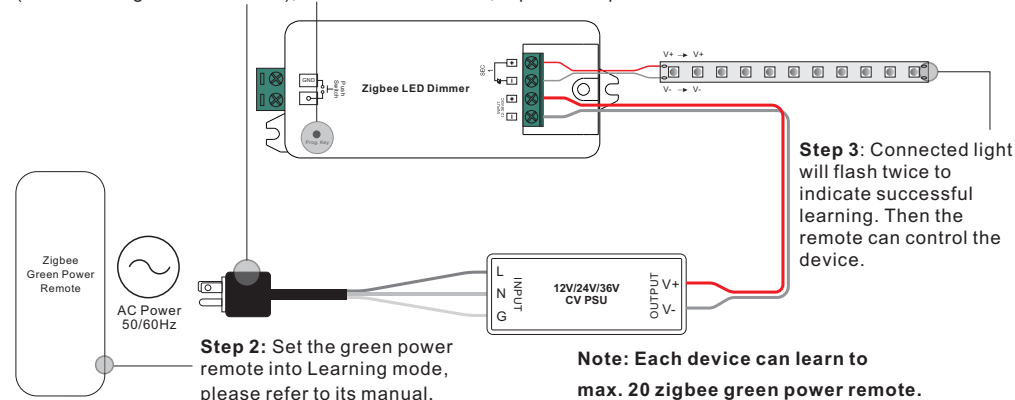
8. Find and Bind Mode

The diagram illustrates the wiring for a Zigbee LED Dimmer. On the left, a Zigbee Remote is connected to the dimmer's antenna. The dimmer is powered by AC Power (50/60Hz) and is connected to a 12V/24V/36V CV PSU. The PSU's output is connected to the dimmer's V+ and V- terminals. The dimmer's output is connected to a load (represented by a series of squares) via V+ and V- terminals. The dimmer's internal components, including a switch and a relay, are shown in detail.

Step 2: Set the remote or touch panel (target node) into find and bind mode, and enable the remote or touch panel 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.

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.

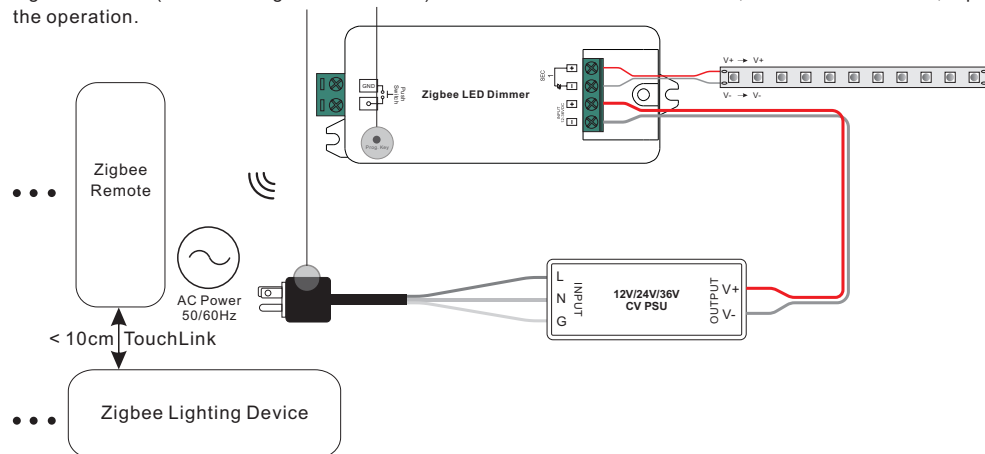


10. Delete Learning to a Zigbee Green Power Remote

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

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

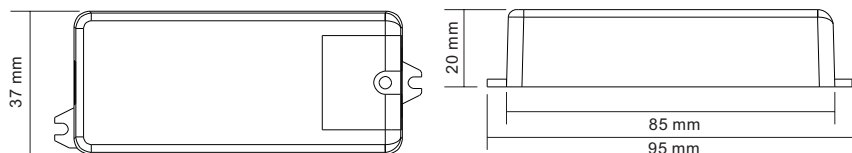
13. OTA

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

14. 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.

Product Dimension



Wiring Diagram

