NORD LICHT
Beleuchtungssysteme

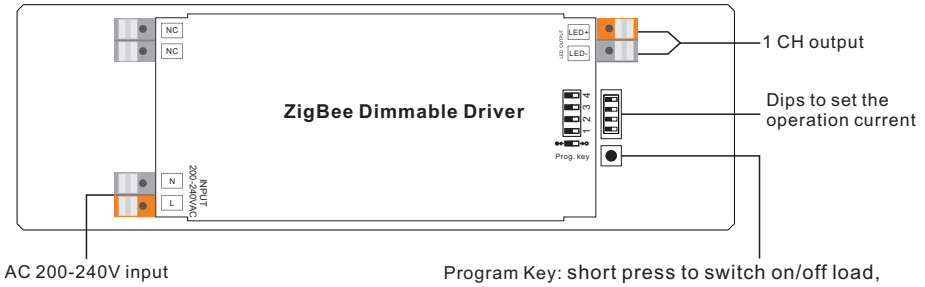
NL-SHZB-30MP Art: 910665

09.ZG9105CT.04021

30W ZigBee LED Driver(constant current)

Important: *Read All Instructions Prior to Installation*

Function introduction



Product Data

Output	Selectable Current	250mA	300mA	350mA	400mA	450mA	500mA	550mA	600mA
	DC Voltage Range	8-48V	8-48V	8-48V	8-48V	8-48V	8-48V	8-48V	8-48V
	Selectable Current	650mA	700mA	750mA	800mA	850mA	900mA	950mA	1000mA
	DC Voltage Range	8-46V	8-42V	8-40V	8-37V	8-35V	8-33V	8-31V	8-30V
	Rated Power	30W max.							
Input	Voltage Range	200-240V AC							
	Frequency Range	50/60Hz							
	Power Factor (Typ.)	> 0.9 @ 230VAC							
	Total Harmonic Distortion	THD ≤ 15% (@ full load / 230VAC)							
	Efficiency (Typ.)	83% @ 230VAC full load							
	AC Current (Typ.)	0.17A @ 230VAC							
	Inrush Current (Typ.)	COLD START 2A max. at 230VAC							
	Leakage Current	< 0.5mA /230VAC							
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℃ ~ +45℃							
	Max. Case Temp.	85℃							
	Working Humidity	10% ~ 95% RH non-condensing							
	Storage Temp. & Humidity	-40℃ ~ +80℃, 10% ~ 95% RH							
Safety&EMC	Safety Standards	ENEC EN61347-1, EN61347-2-13 approved							
	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 1KV							
Others	MTBF	193.6K hrs min.@ 230VAC at full load and 25℃ ambient temperature							
	Dimension	210*50*32mm (L*W*H)							

Dips to set the operation current

	1	2	3	4
250mA	●	●	●	●
300mA	●	●	●	○
350mA	●	●	○	●
400mA	●	●	○	○
450mA	●	○	●	●
500mA	●	○	●	○
550mA	●	○	○	●
600mA	●	○	○	○

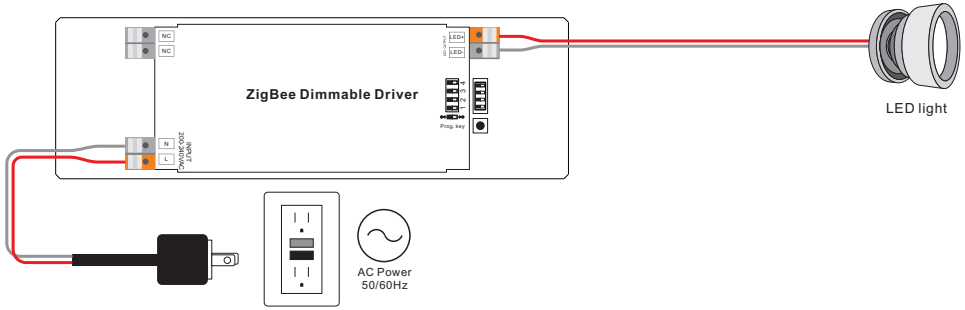
	1	2	3	4
650mA	○	●	●	●
700mA	○	●	●	○
750mA	○	●	○	●
800mA	○	●	○	○
850mA	○	○	●	●
900mA	○	○	●	○
950mA	○	○	○	●
1000mA	○	○	○	○

- Dimmable LED driver for tunable white, ZigBee device based on ZigBee 3.0 protocol
- Max. output power 30W total, 1 channels 250-1000mA constant current output
- Dips to select multi operation current
- Class Ⅱ power supply, full isolated plastic case
- Built-in active PFC function, high power factor and efficiency
- Deep and smooth dimming to 0.1%, flicker free, no noise
- Enables to control ON/OFF, light intensity of connected single color 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 remotes
- Compatible with universal ZigBee gateway products
- Compatible with universal dim 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 expose the device to moisture.

Wiring Diagram



Operation

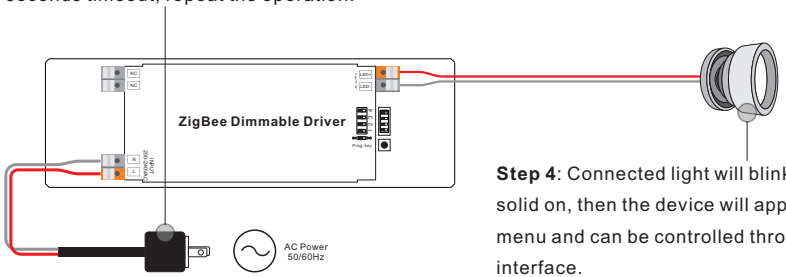
1.Do wiring according to connection diagram correctly.

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.

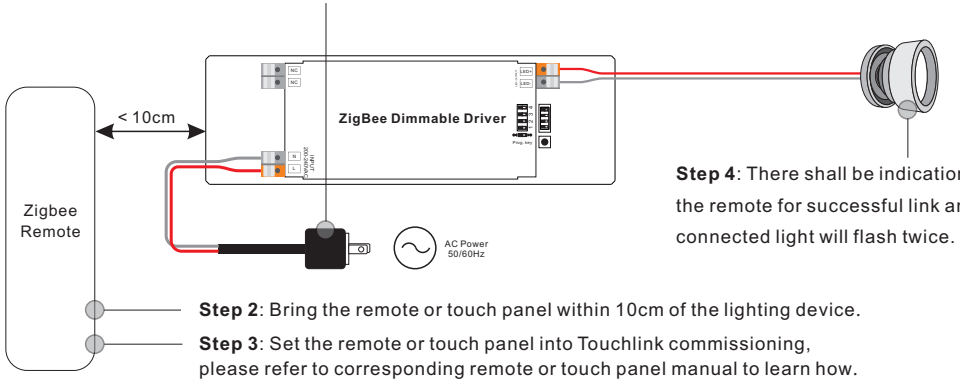
Step 3: Re-power on the device to set it into network pairing mode (connected light flashes twice slowly), 15 seconds timeout, repeat the operation.



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

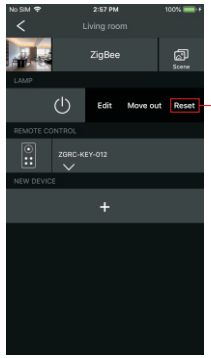


Step 4: There shall be indication on the remote for successful link and connected light will flash twice.

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.

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.

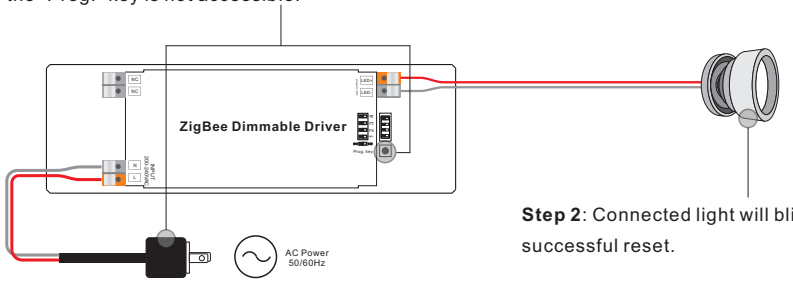
5. Removed from a Zigbee Network through Coordinator or Hub Interface



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.



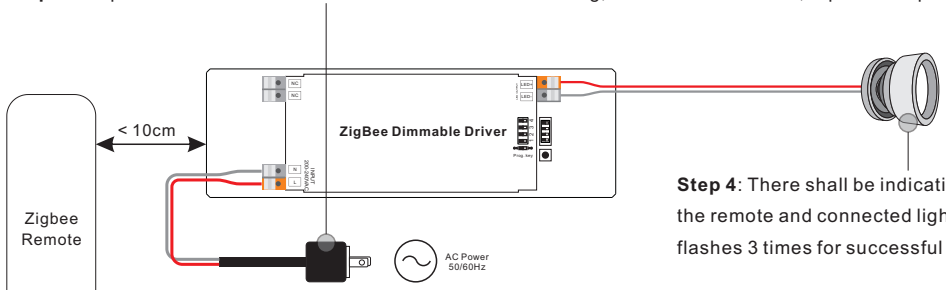
Step 2: Connected light will blink 3 times to indicate successful reset.

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)

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

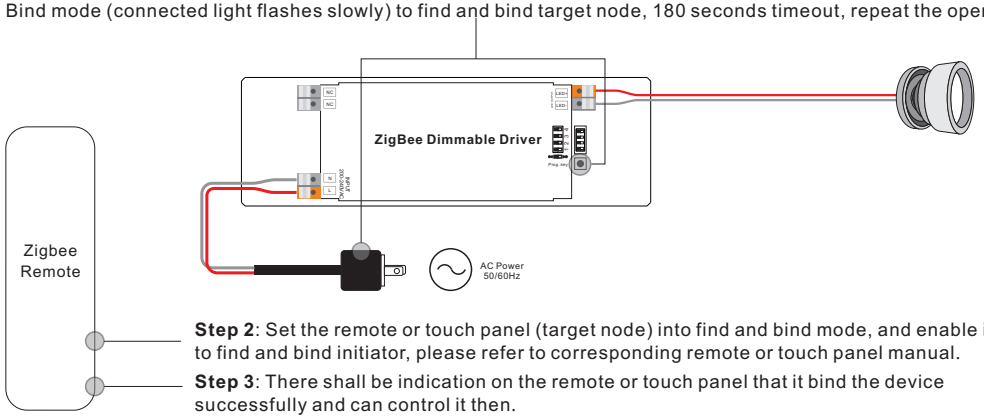


Step 4: There shall be indication on the remote and connected light flashes 3 times for successful reset.

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.

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.

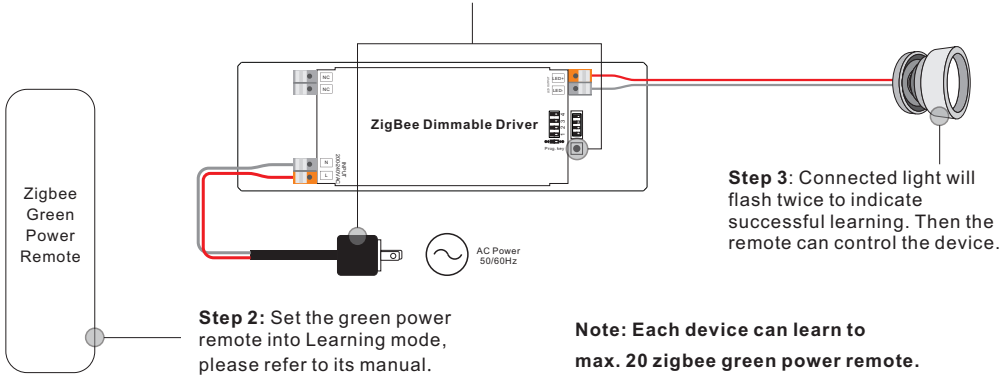


Step 2: Set the remote or touch panel (target node) into find and bind mode, and enable it to find and bind initiator, please refer to corresponding remote or touch panel manual.

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.



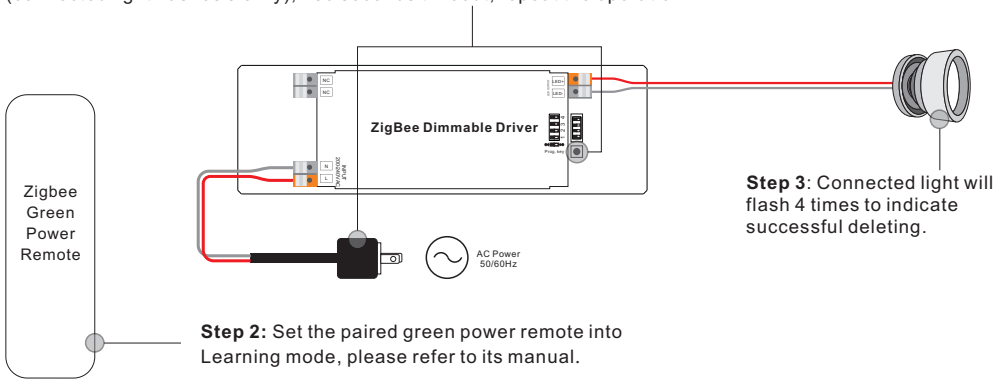
Step 2: Set the green power remote into Learning mode, please refer to its manual.

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.

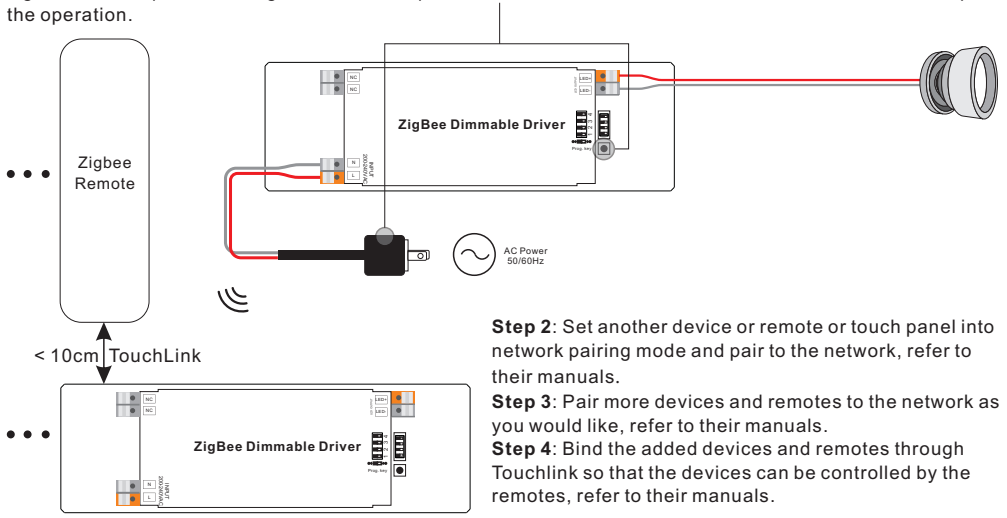


Step 2: Set the paired green power remote into Learning mode, please refer to its manual.

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

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.

Product Dimension