SRP-9101-36-C1050NFC

36W ZigBee 3.0, LED TREIBER CC 350-1050mA mit NFC

Eigenschaften / Features

Dimmbarer LED-Treiber. Max. Ausgangsleistung 36W

ZigBee 3.0-Protokoll

350-1050mA Strom wählbar über NFC Programm Tool. Min.Stromgang niedriger als 0.1mA

Dimmkurve/Einschaltzustand/Softstart/Softaus über NFC-Programmtool einstellbar.

Klasse II-Netzteil, vollisoliertes Kunststoffgehäuse

Hoher Leistungsfaktor und Wirkungsgrad

PUSH DIM-Funktion aktiviert

Kann die Helligkeit und Farbtemperatur von LED-Leuchten ein- und ausschalten und steuern

Amplituden/CCR-Dimmen, sanftes und tiefes Dimmen

ZigBee-Endgerät, das die Touchlink-Inbetriebnahme unterstützt

Kann über Touchlink direkt mit einer kompatiblen ZigBee-Fernbedienung gekoppelt werden

Unterstützt den Find- und Bindemodus zum Binden einer ZigBee-Fernbedienung

Unterstützt Zigbee Green Power und kann max. 20 Zigbee Green Power Schalter

Kompatibel mit universellen ZigBee-Gateway-Produkten

Wasserdichtigkeit: IP20

5 Jahre Garantie

Dimmable LED driver. Max. output power 36W

ZigBee 3.0 protocol

350-1050mA current selectable via NFC program tool. Min.current gear lower to 0.1mA

Dimming curve/Power on state/Soft start/Soft off via NFC program tool.

Class II power supply, full isolated plastic case

High power factor and efficiency

PUSH DIM function enabled

Able to On/Off and control LED lighting luminaries' brightness and color temperature

Amplitude/CCR dimming, smooth and deep dimming

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

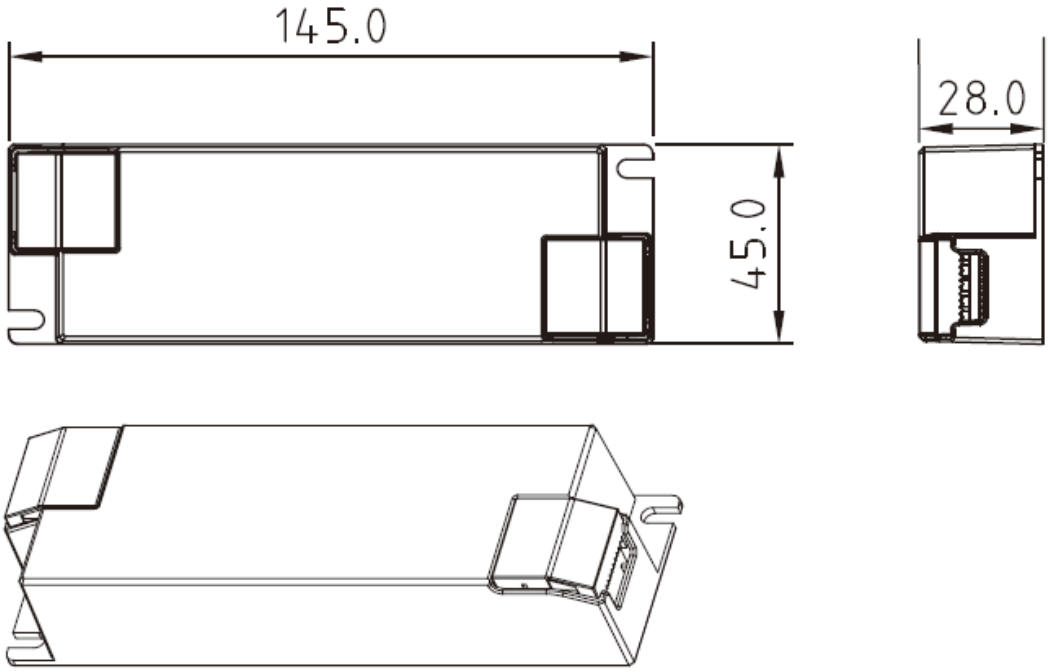
Waterproof grade: IP20

5 years warranty

Technische Daten / Technical Data

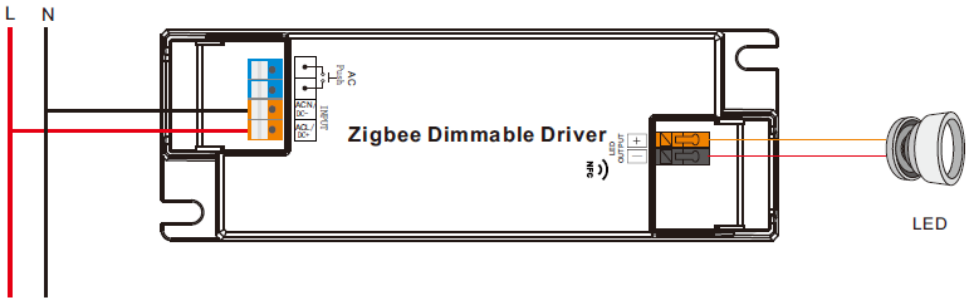
INPUT	Voltage Range	200-240VAC / 200-240VDC
	Frequency range	0/50/60Hz
	Power Factor (Typ.)	> 0.98 @ 230VAC Full load
	Total harmonic distortion	THD ≤ 10% (@ full load / 230VAC)
	Efficiency (Typ.)	> 86% @ 230VAC full load
	Standby Power consumption	< 0.5W
	Inrush Current (typ)	COLD START Max. 8.56A @ 230VAC; 88us duration
	Input Current	0.25A @ 230VAC
OUTPUT	LED Channel	1
	DC Voltage	6-54V
	Current	350-1050mA via NFC setting; Default 800mA, Min.current gear lower to 0.1mA,
	Rated Power	max. 36W
	Current Accuracy	+/-3% (+/-1% @ Certain full load) @full load
PROTECTION	Short Circuit	Yes, remove the fault conditions and re-power the device
	Over Temperature	
	Over Current	
CONTROL	Dimming Interface	Zigbee 3.0
	Dimming Range	0.01% - 100% @ Max current
	Dimming Methode	Amplitude / CCR dimming
	Dimming Curve	Linear/ Logarithmic optional
ENVIRONMENT	Working Temperature	-20°C - + 45°C
	Max. Case Temperature	TC = 85°C (Ta= „45°C“)
	Working Humidity	10%-95% RH non-condensing
	Storage Temperature	-40°C - +80°C
	Storage Humidity	10% - 95% RH
	IP Rating	IP20
SAFETY & EMC	Safety Standards	ENEC EN61347-1, EN61347-2-13 approved
	Withstand Voltage	I/P-O/P: 3.75KVAC
	Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH
	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	191350H, MIL-HDBK-217F @ 230VAC full load and 25°C ta
	Dimension	145*45*28mm (L*W*H)
	Warranty	5 years

Abmessungen / Dimension

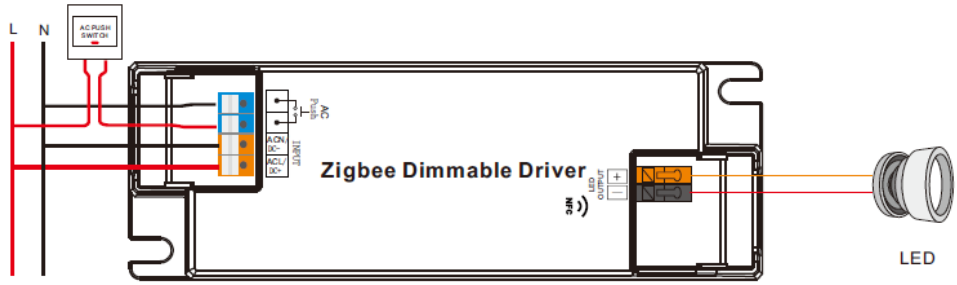


Anschlussschema / Wiring Diagram

Application 1（Without PUSH）



Application 2（With PUSH）



Operation Zigbee Network

1.Do wiring according to connection diagram correctly.

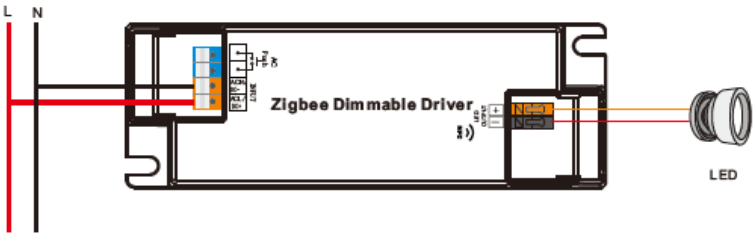
2.This ZigBee device is a wireless receiver that communicates with a variety of ZigBee compatible systems. This receiver receives and is controlled by wireless radio signals from the compatible ZigBee system.

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.

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: power on the device, it will be set into network pairing mode (connected light flashes twice slowly), the network pairing mode will last until the device is added to a zigbee network.

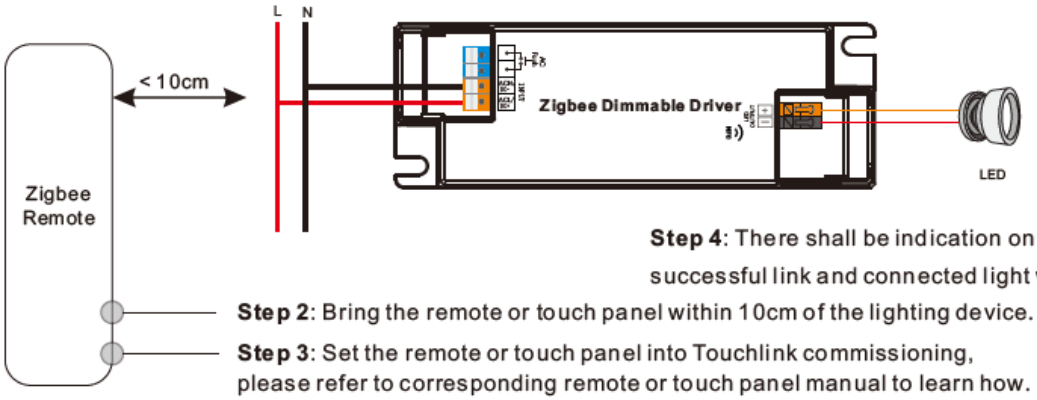


Step 4: Connected light will blink 5 times and then stay solid on, then the device will appear in your controller's menu and can be controlled through controller or hub interface.

4. TouchLink to a Zigbee Remote

Step 1: Method 1: re-power on the device 4 times to start Touchlink commissioning immediately, 180S timeout, repeat the operation.

Method 2: If the device is already added to a network, it will be set into Touchlink commissioning immediately, 180S timeout. Once timeout, re-power on the device to set it into touchlink commissioning again.



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

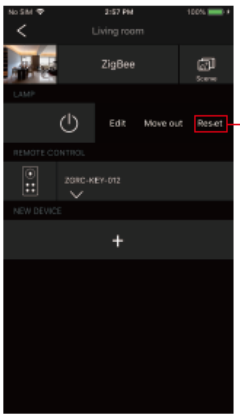
Step 2: Bring the remote or touch panel within 10cm of the lighting device.

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) To control by both gateway and remote, add remote and device to network first then TouchLink.
4) After TouchLink, the device can be controlled by the linked remotes.

Operation Zigbee Network

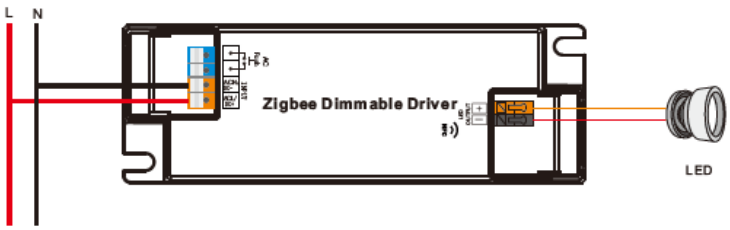
5. Removed from a Zigbee Network through Coordinator or Hub Interface



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: Enable Pairing via NFC App or re-power on the device for 5 times continuously .

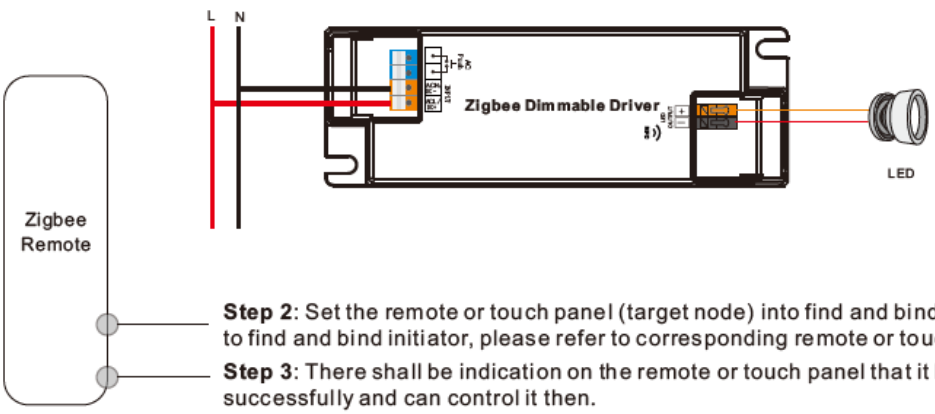


Step 2: Connected light will blink 3 times to indicate successful reset.

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. Find and Bind Mode

Step 1: 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.



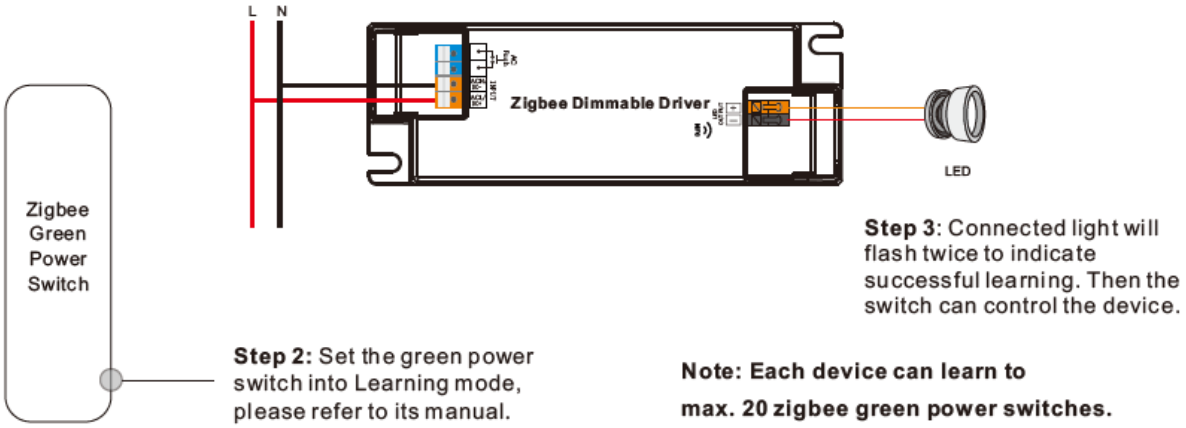
Step 2: Set the remote or touch panel (target node) into find and bind mode, and enable it to find and bind initiator, please refer to corresponding remote or touch panel manual.

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

Operation Zigbee Network

8. Learning to a Zigbee Green Power Switch

Step 1: Re-power on the device 4 times to start Learning to GP switch mode (connected light flashes twice), 180 seconds timeout, repeat the operation.



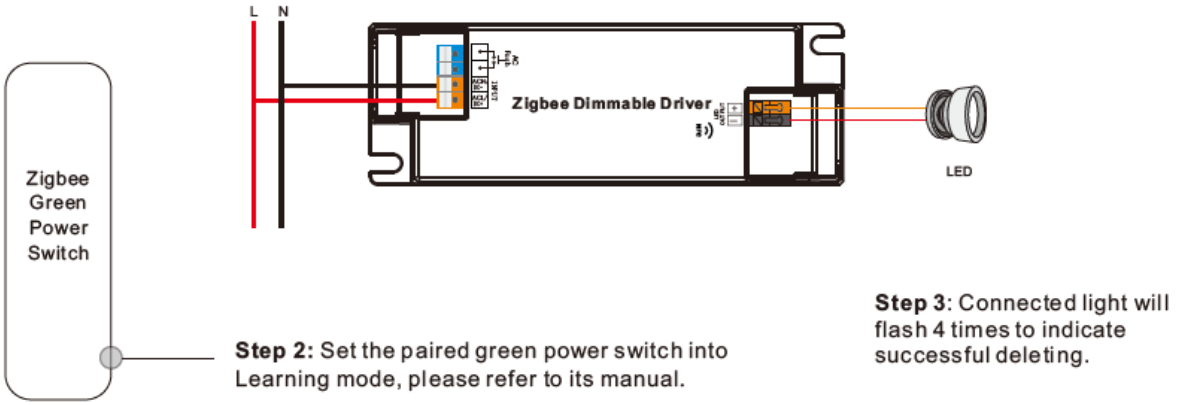
Step 2: Set the green power switch into Learning mode, please refer to its manual.

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.

9. Delete Learning to a Zigbee Green Power Switch

Step 1: Re-power on the device 3 times to start delete Learning to GP switch mode (connected light flashes slowly), 180 seconds timeout, repeat the operation.



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.

10. 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

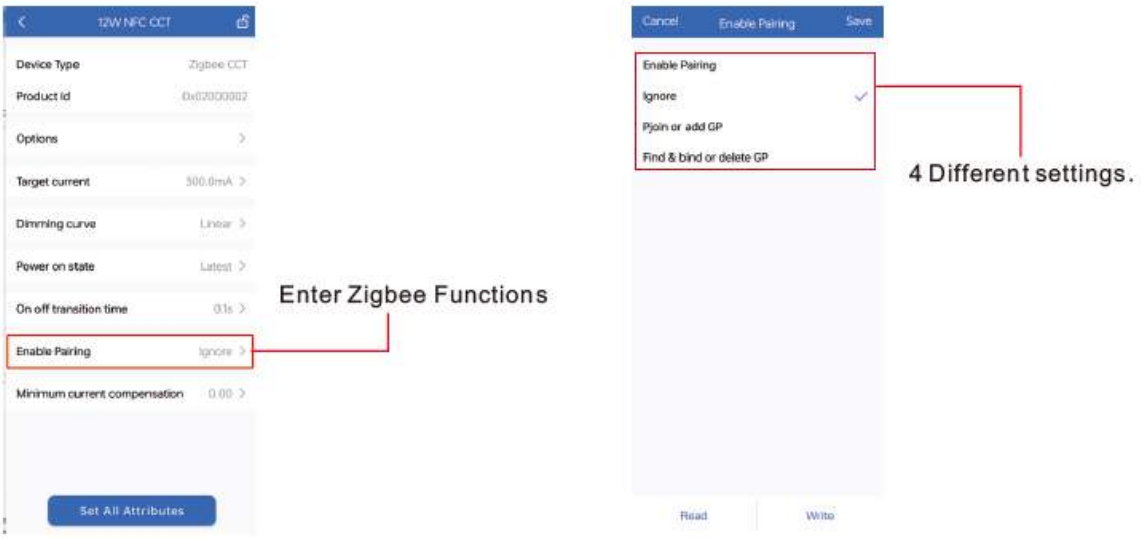
• 0x0019: OTA

11. OTA

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

Operation Zigbee Network

Function setting Via "SR NFC TOOL"



1) Enable Pairing

A. Enable the Zigbee NFC drivers enter the pairing mode and add it into the Zigbee network.

B. Factory reset. Enable the configured Zigbee NFC driver into configuring mode.

C. Besides, you can re-power the device 5 times to enable this section as well.

2) Ignore

A. Remember, once you need to write other parameters into the NFC driver, you should select this section, so as not to change the driver's state.

3) Pjoin or add GP

A. This section as known as " Enable Touchlink & GP mode".

B. Select this section and write it into the Zigbee NFC driver, the driver will enter Touchlink mode and GP Mode.

Note: You can both have Touchlink and GP functions as long as you matched with Touchlink function first.

C. Besides, you can re-power the device 4 times to enable this section as well.

4) Find & bind or delete GP

A. This section as known as " Enable Find&Bind / Delete GP ".

B. Select this section and write it into the Zigbee NFC driver, the driver will enter Find&Bind mode,and it will delete previous GP bonding .

C. Besides, you can re-power the device 3 times to enable this section as well.

Operation Zigbee Network

With NFC Programming devices

Note

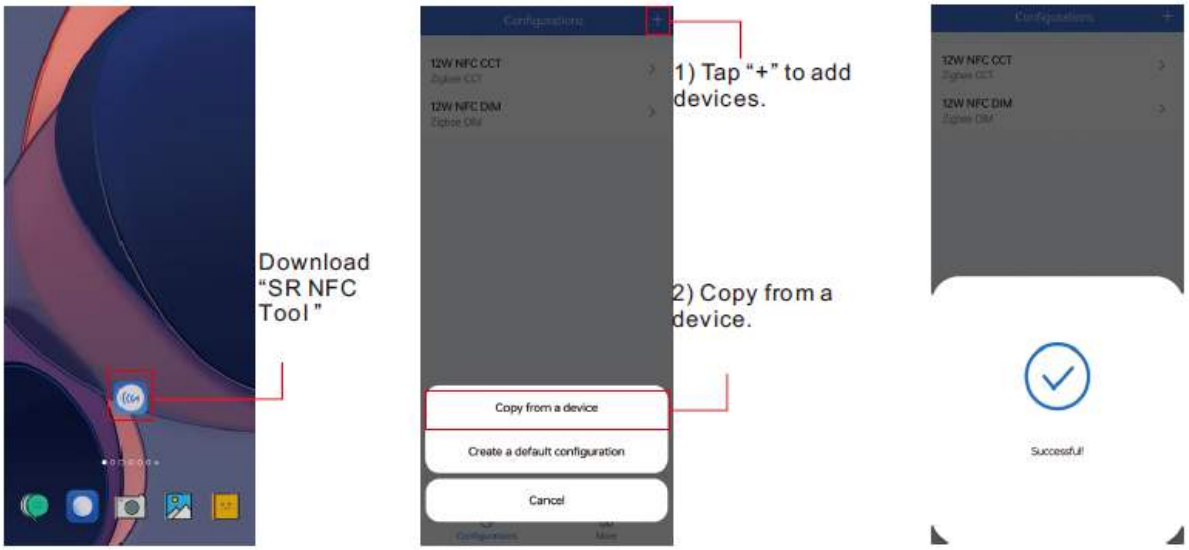
1) Do wiring according to the wiring diagram .

2) Recommend setting parameters without power-on devices .

2) Please make sure your mobile phone has NFC function and enable it .

Working with "SR NFC Tool" APP

Step 1: Download the APP (searching "SR NFC Tool" from App Store and Google Playstore) . Then open the APP .

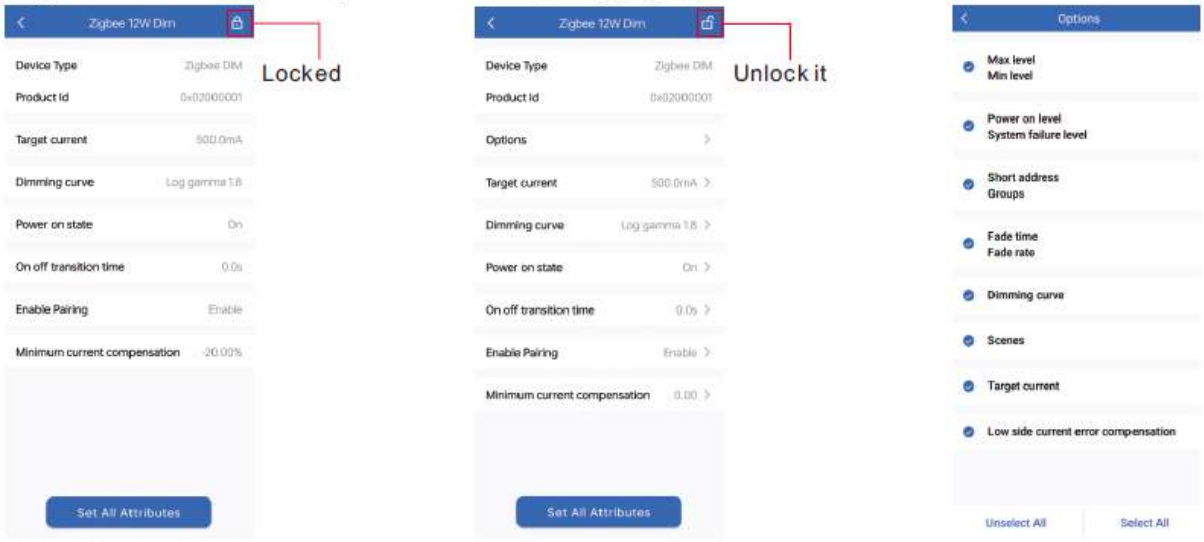


Note: 1. Please Make sure that you have enabled NFC function with your mobile phone/ tablet .
2. Please Make sure that the "NFC position" is matched.
3. Please do not power on the device before setting.
4. If you can't download "SR NFC Tool". Please contact with us.

Step 2: Add device, and name it as you wish.

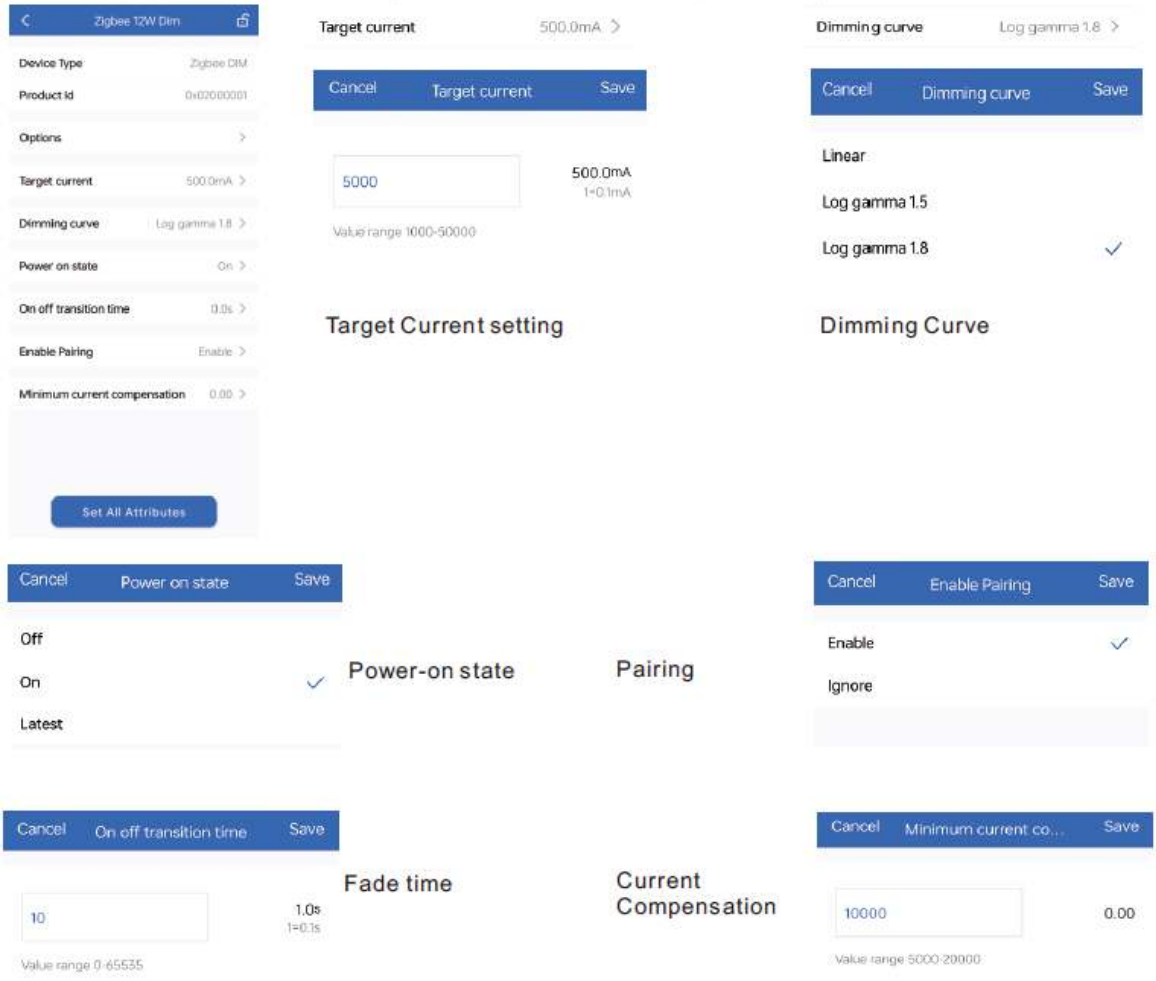
Operation Zigbee Network

Step 3: Unlock device, enter parameters configuring page.



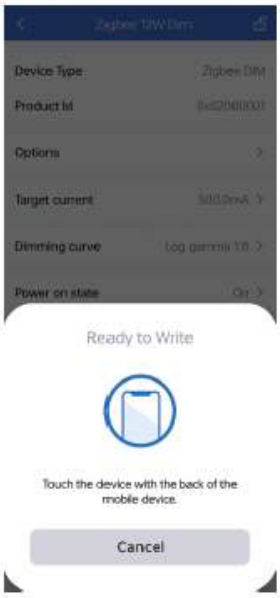
Note: 1. You have to unlock the device then do some settings
2. Only when the corresponding function is selected, the function interface will be displayed.

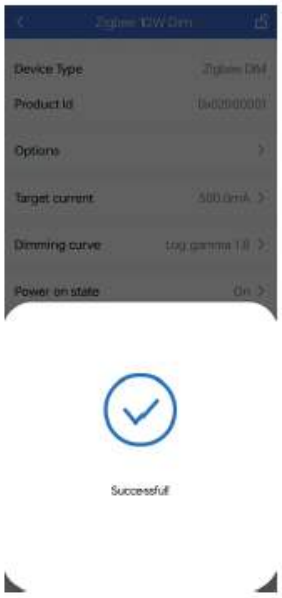
Step 4: Few parameter interface, you can choose the setting based on your requirements.



Operation Zigbee Network

Step 5: After setting, please save the selected configuration via NFC and power on the device.



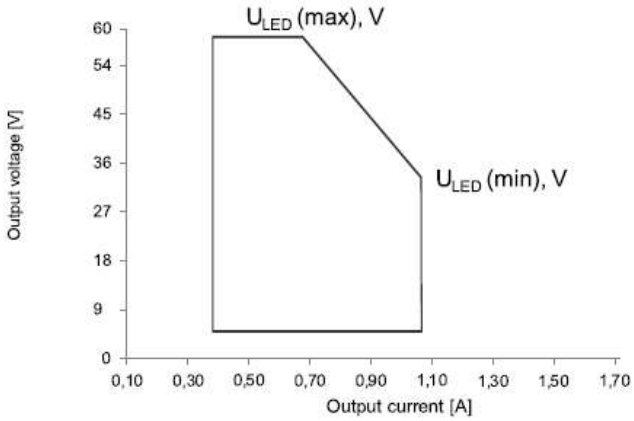


Tips

1. NFC function doesn't require any power driver.
2. Many functions can be configured by NFC. Kindly check your desired functions.
3. You can create a default profile with the "+" button.

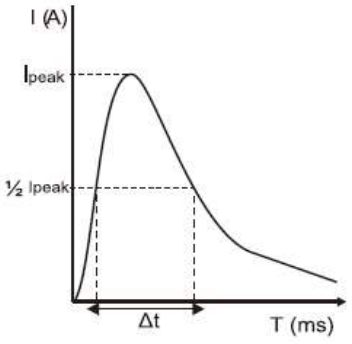
Operation Zigbee Network

Operating window



MCB Load Quantity

Module Number	Ipeak	Twidth	Max.quantity of LED Driver per MCB													
			B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
SRP-ZG9105N-36CC350-1050	8.56A	88μs	17	22	28	35	43	28	36	44	56	70	32	41	51	64	80
SRP-ZG9105N-36CCT350-1050	8.56A	88μs	17	22	28	35	43	28	36	44	56	70	32	41	51	64	80



Note:

1. Those MCB parameters are based on ABB S200 series circuit breakers.
2. For different brands and models of miniature circuit breakers, the quantity of drivers will have difference.
3. Please do not exceed the above-mentioned quantity during on-site installation, and the specific load quantity shall be subject to on-site installation.
4. When the installation environment temperature of MCBs exceeds 30°C or when multiple MCBs are installed side by side, the number of mounted drives will be reduced, which requires recalculation.
5. Type C MCB's are strongly recommended to use with LED lighting

Update log

Date	Version	Update content	Update by
2023-9-28	V1.0	Initial Version	Romeo

Note: Subject to change without notice. Please contact us if you have any questions.