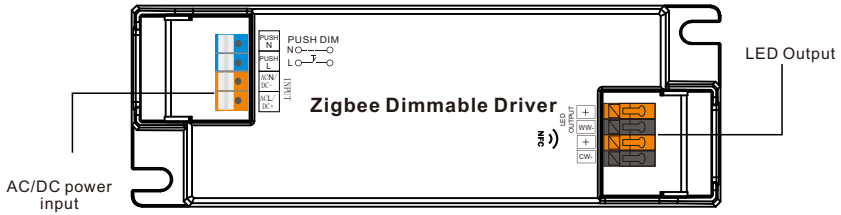
36W 2CH Zigbee NFC Enabled LED Driver(Constant Current)

Important: *Read All Instructions Prior to Installation*

Function introduction



Product Data

Output	LED Channel	2
	DC Voltage	6-54V, Max.60V
	Current	350-1050mA via NFC setting; Min.current gear lower to 0.1mA,Default 800mA
	Current Accuracy	±3%(±1%@Certain full load) @ full load
	Rated Power	Max. 36W
Input	Voltage Range	220-240VAC/220-240VDC
	Absolute Voltage Range	196-264VAC/196-264VDC
	Frequency Range	0/50/60Hz
	Power Factor (Typ.)	> 0.95 @ 230VAC Full load*
	Total Harmonic Distortion	THD ≤ 14% (@ full load / 230VAC)*
	Efficiency (Typ.)	> 86% @ 230VAC full load*
	AC Current (Typ.)	0.25A Max.
	Inrush Current (Typ.)	Max. 8.56A at 230VAC; 88μs duration
	Leakage Current	< 5mA /230VAC
	Anti Surge	L-N:2KV
Control	Dimming Interface	Zigbee
	Dimming Range	0.01%-100%@ Max current
	Dimming Method	Amplitude/CCR dimming
	Dimming Curve	Linear/ Logarithmic optional
Protection	Short Circuit	Yes, remove the fault conditions and re-power the device
	Over Current	Yes, remove the fault conditions and re-power the device
	Over Temperature	Yes, remove the fault conditions and re-power the device
Environment	Working Temp.	-25℃ ~ +45℃
	Max. Case Temp.	TC=85℃ (Ta=45℃)
	Working Humidity	10% ~ 95% RH non-condensing
	Storage Temp. & Humidity	-40℃ ~ +80℃, 10% ~ 95% RH
Safety & EMC	Safety Standards	EN61347-1, EN61347-2-13, GB/T 19510.1-2023, GB/T 19510.213-2023
	Withstand Voltage	I/P-O/P: 3.75KVAC
	Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25℃ / 70% RH
	EMC Emission	EN55015, EN61000-3-2, EN61000-3-3, GB 17625.1-2022, GB/T 17743-2021
	EMC Immunity	EN61547, EN61000-4-2,3,4,5,6,8,11
Others	MTBF	191350H, MIL-HDBK-217F @ 230VAC full load and 25°C ambient temperature
	Dimension	145x45x28mm (L*W*H)
	Warranty	5 Years

*: PF/THD/Eff shall be different per different testing setup and equipment.

- Dimmable LED driver, ZigBee device based on ZigBee 3.0 protocol
- Dimmable LED driver. Max. output power 36W
- 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 zigbee green power and can bind max. 20 zigbee green power switches
- Compatible with universal ZigBee gateway products
- Waterproof grade: IP20, suitable for indoor LED lighting applications
- 5 years warranty

Safety & Warnings

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

Operation--Zigbee Network

1.Do wiring according to connection diagram correctly.

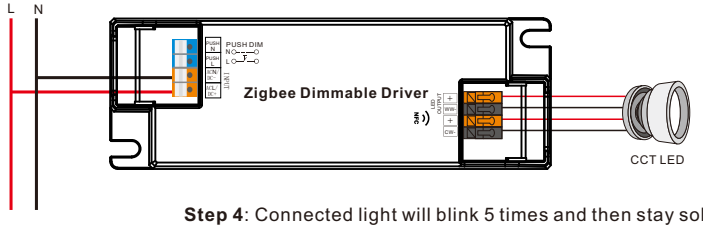
2.This ZigBee device is a wireless receiver that communicates with a variety of ZigBee compatible systems. This receiver receives and is controlled by wireless radio signals from the compatible ZigBee system.

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.

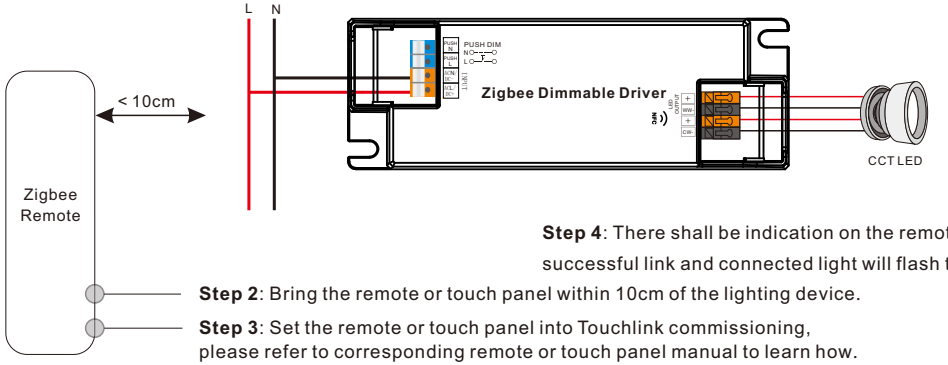


Step 4: Connected light will blink 5 times and then stay solid on, then the device will appear in your controller's menu and can be controlled through controller or hub interface.

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.



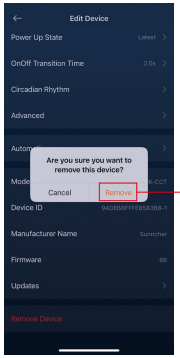
Step 4: There shall be indication on the remote for successful link and connected light will flash twice.

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.

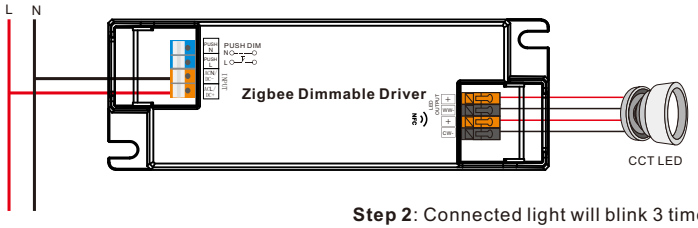
5. Removed from a Zigbee Network through Coordinator or Hub Interface



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 .

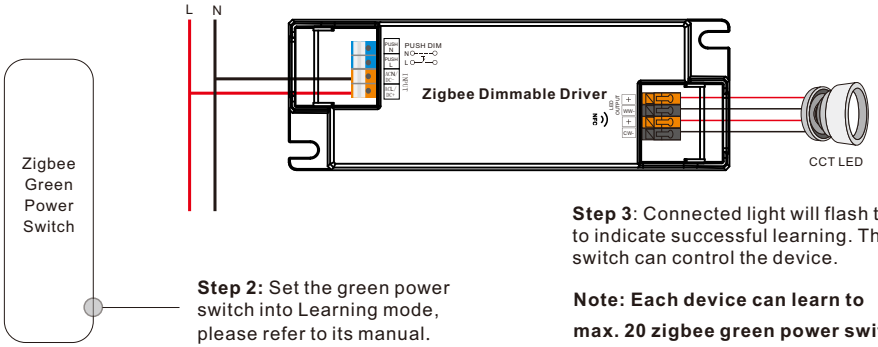


Step 2: Connected light will blink 3 times to indicate successful reset.

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. 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.



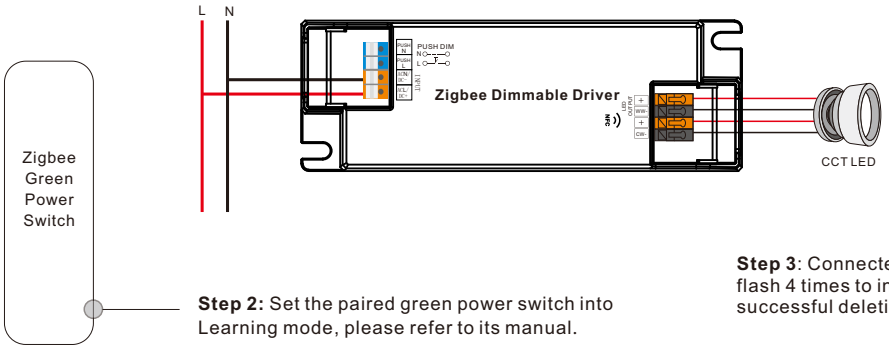
Step 2: Set the green power switch into Learning mode, please refer to its manual.

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.

8. 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.

9. 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

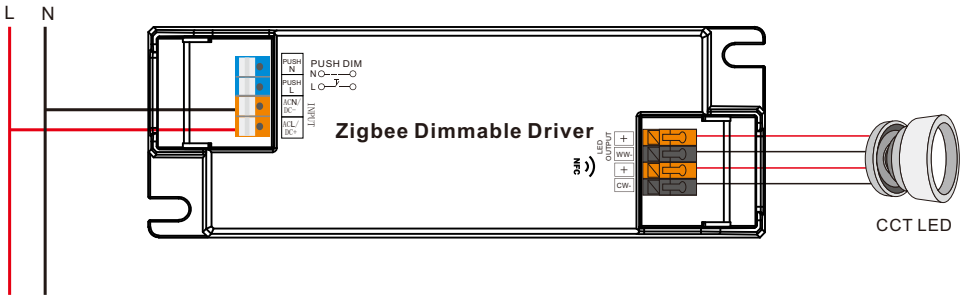
• 0x0019: OTA

10. OTA

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

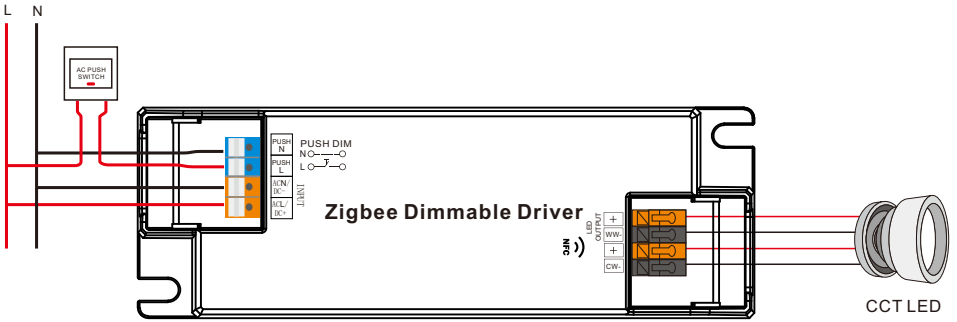
Wiring Diagram

Application 1（Without PUSH）

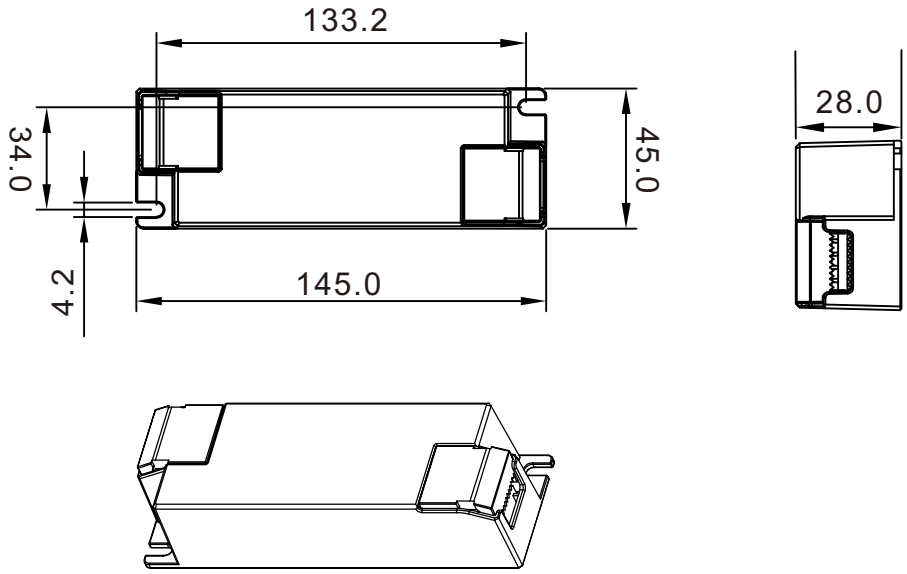


Note: Avaliable with 3-wire CCT luminaries as well

Application 2（With PUSH）



Product Dimension



With NFC Programming devices

Note

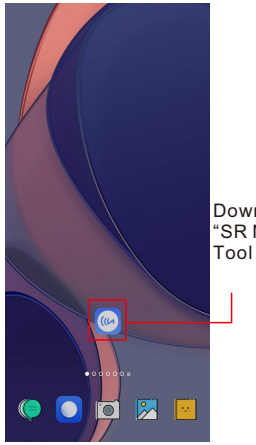
1) Do wiring according to the wiring diagram .

2) Recommend setting parameters without power-on devices .

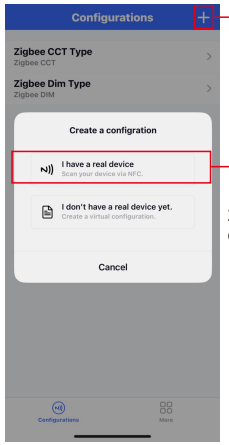
2) Please make sure your mobile phone has NFC function and enable it .

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 .

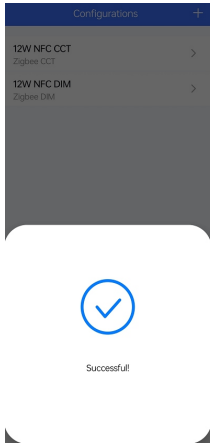


Download “SR NFC Tool ”



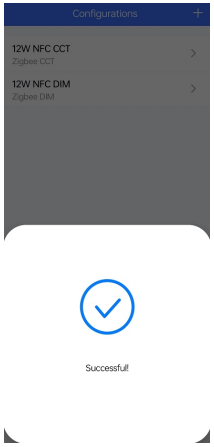
1) Tap “+” to add devices.

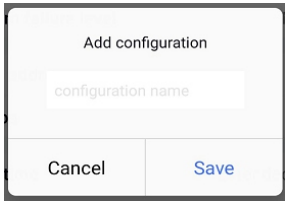
2) Copy from a device.

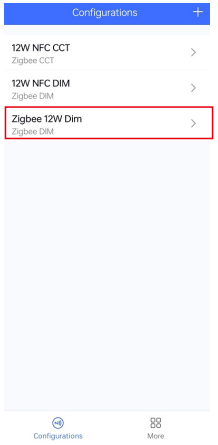


Note: 1. Please Make sure that you have enabled NFC function with your mobile phone/ tablet .
2. Please Make sure that the “NFC position” is matched.
3. Please do not power on the device before setting.
4. If you can’t download “SR NFC Tool”. Please contact with us.

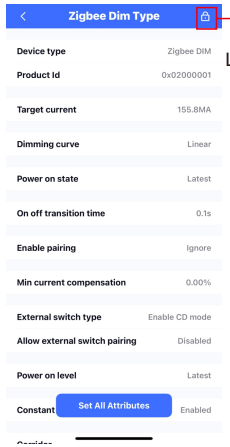
Step 2: Add device, and name it as you wish.



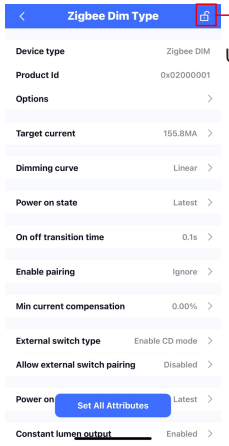




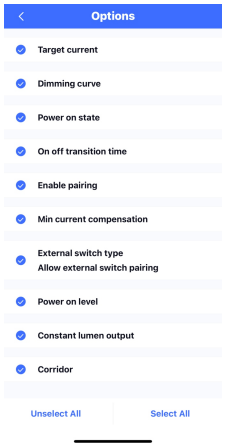
Step 3: Unlock device, enter parameters configuring page.



Locked

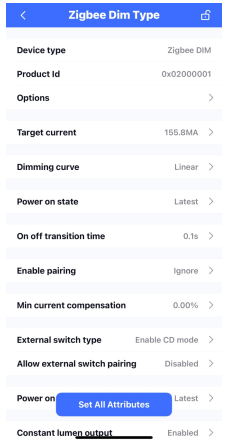


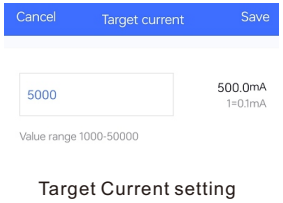
Unlock it



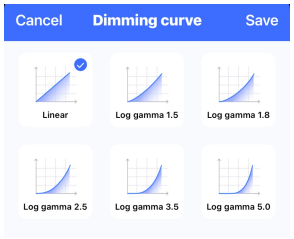
Note: 1. You have to unlock the device then do some settings
2. Only when the corresponding function is selected, the function interface will be displayed.

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

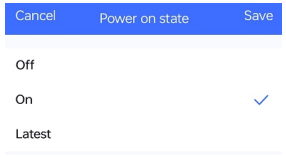




Target Current setting

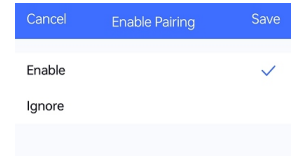


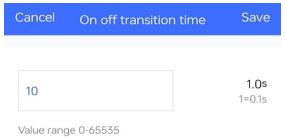
Dimming Curve



Power-on state

Pairing

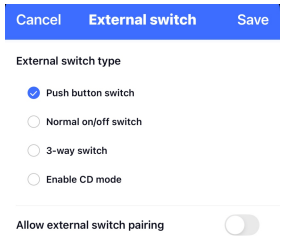




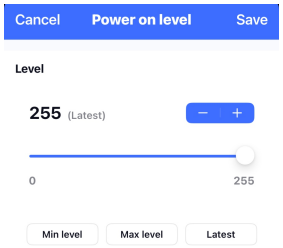
Fade time

Current Compensation

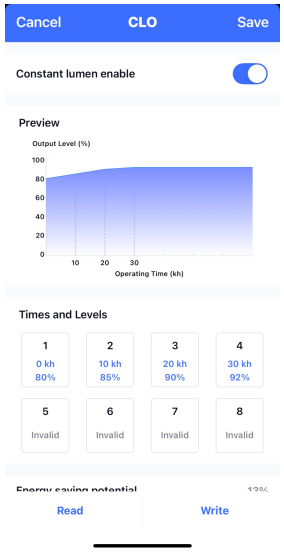




Select external switch type



Power on level



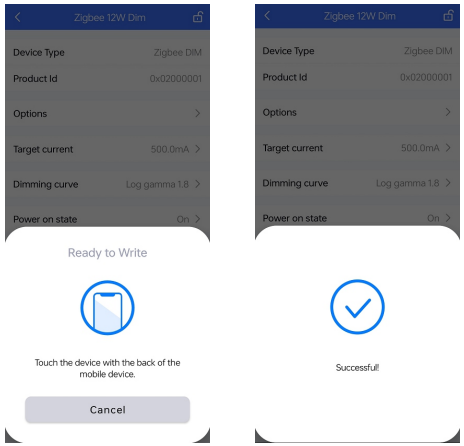
Constant lumen output function



Corridor dim function

*Under this mode, please make sure the CD mode is enabled.

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



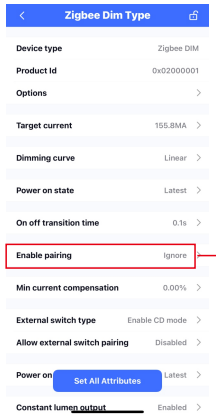
Tips

1. NFC function doesn't require any power driver.

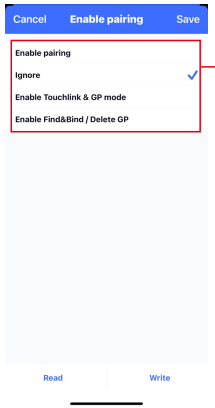
2. Many functions can be configured by NFC. Kindly check your desired functions.

3. You can create a default profile with the "+" button.

Function setting Via "SR NFC TOOL"



Enter Zigbee Functions



4 Different settings.

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) Enable Touchlink & GP mode

A. 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.

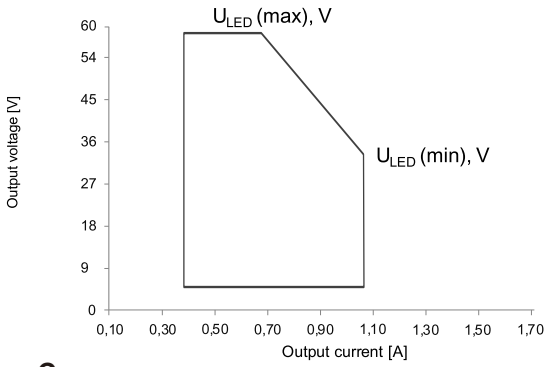
B. Besides, you can re-power the device 4 times to enable this section as well.

4) Enable Find&Bind / Delete GP

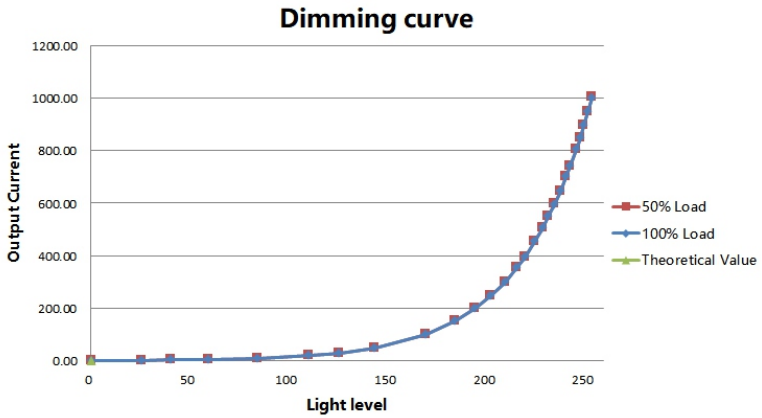
A. Select this section and write it into the Zigbee NFC driver, the driver will enter Find&Bind mode,and it will delete previous GP bonding .

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

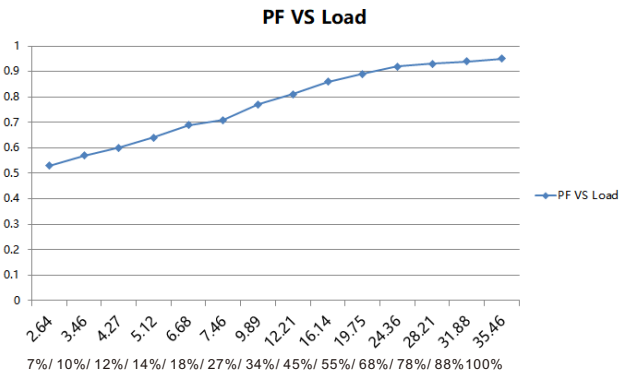
Operating window



Dimming Curve

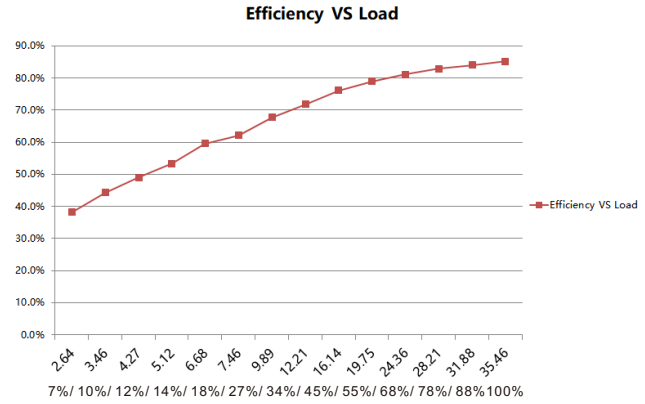


Driver Performance



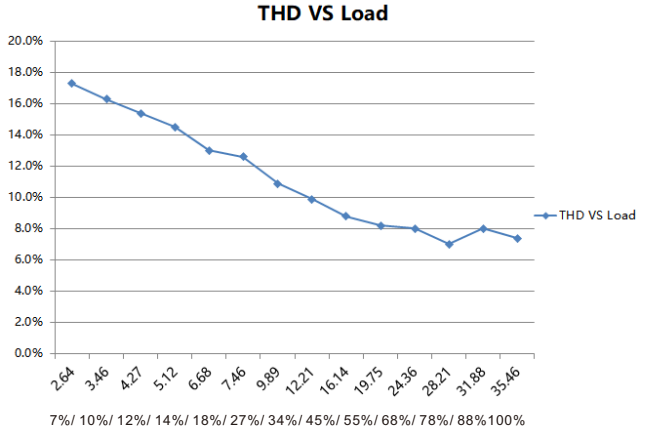
Note: Test data under 800mA gear

Driver Performance



Note: Test data under 800mA gear

Driver Performance



Note: Test data under 800mA gear

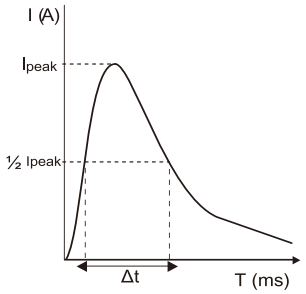
Expected Lifetime

Module Number	Output current	Ta	30 °C	40 °C	45 °C	•••	
SRP-ZG9105N-36CC350-1050	350 – 1050 mA	Tc	50 °C	60 °C	66 °C	•••	85 °C
SRP-ZG9105N-36CCT350-1050	350 – 1050 mA	Lifetime	> 100,000 h	> 100,000 h	> 100,000 h		> 40,000 h

The LED driver is designed for a lifetime stated above under reference conditions .
The relation of tc to ta temperature depends also on the luminaire design.

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
2025-7-7	V1.1	NFC Function Update	Romeo

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

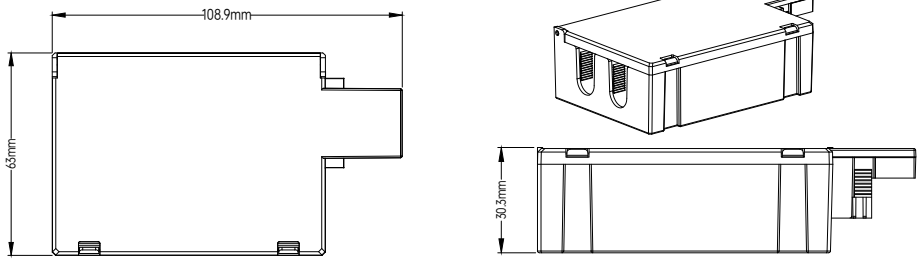
Quick Connector Box (Optional for Order)

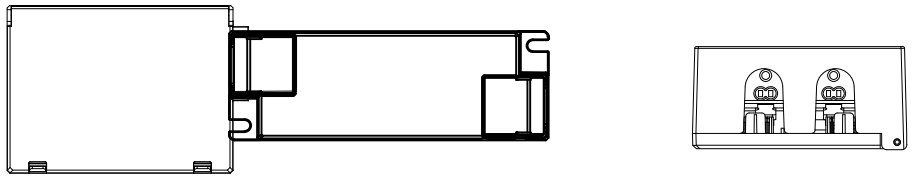
SRP-Loopbox-01

Loop in & Loop Out design

1x DALI Loop in 1x AC Loop in
1x DALI Loop out 1x AC Loop out

Wiring capability:
0.5-2.5mm²(AWG 14-20)

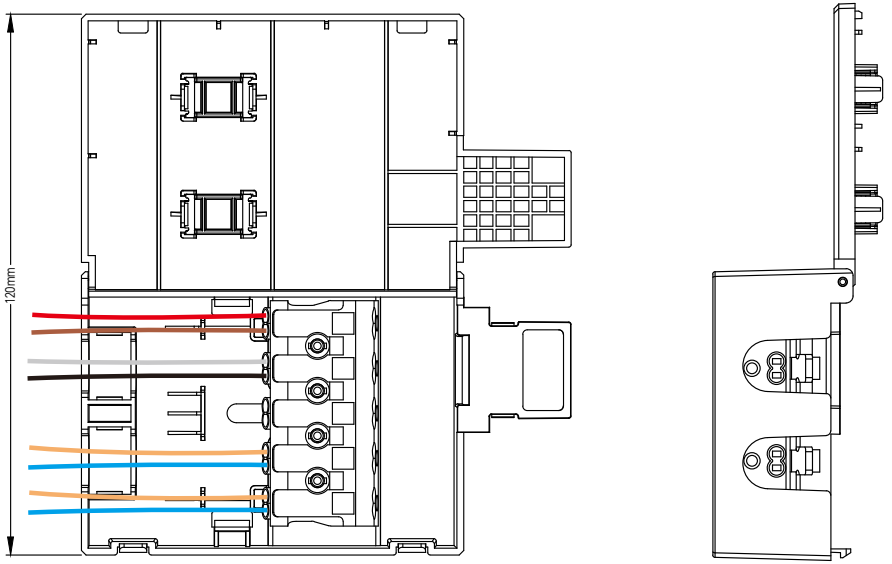




Combined(Top View)

Combined(Side View)

Note: Because the height of the 36W enclosure is slightly lower than that of the Loop box (Due to its own compact design) , it may be necessary to add a gasket on the plane (to maintain balance), not necessarily depending on site conditions.

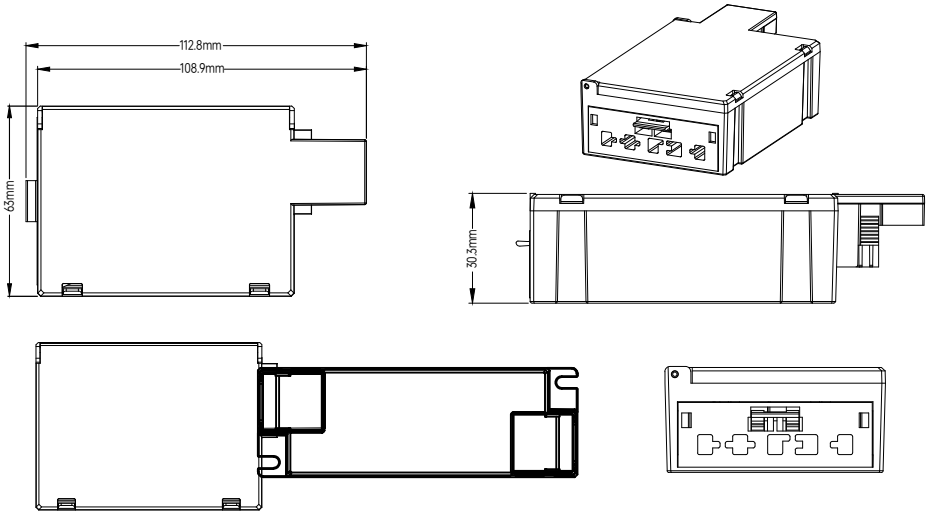


Quick Connector Box (Optional for Order)

SRP-Loopbox-02

Plug & Play design （Wago Terminal)

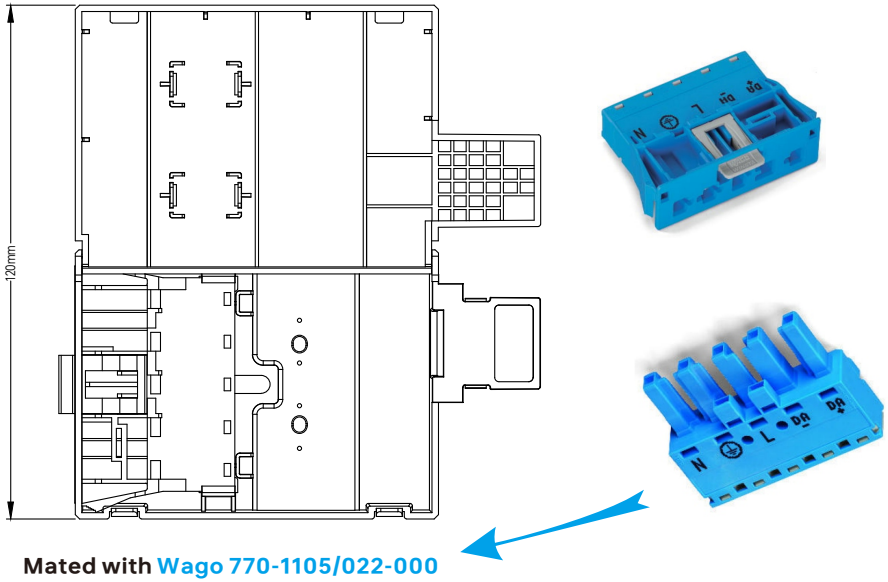
Wiring capability:
0.5-2.5mm²(AWG 14-20)



Combined(Top View)

Combined(Side View)

Note: Because the height of the 36W enclosure is slightly lower than that of the Loop box（Due to its own compact design）, it may be necessary to add a gasket on the plane (to maintain balance)， not necessarily depending on site conditions.



Mated with Wago 770-1105/022-000

http://www.wago.com/770-1105/022-000