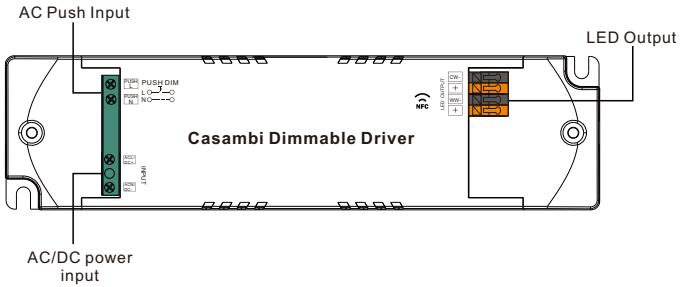
Casambi 15W 2CH NFC LED Driver(Constant Current)

SUNRICHER

Important: *Read All Instructions Prior to Installation*

Function introduction



Product Data

Output	LED Channel	2
	DC Voltage	6-42V, Max. 50V
	Current	100-700mA via NFC tool; Min.current gear lower to 0.1mA, default 350mA
	Current Accuracy	±3%(±1%@Certain full load) @ full load
	Rated Power	Max. 15W
Input	Voltage Range	220-240VAC/220-240VDC
	Absolute Voltage Range	196-264VAC/196-264VDC
	Frequency Range	0/50/60Hz
	Power Factor (Typ.)	> 0.96 @ 230VAC Full load*
	Total Harmonic Distortion	THD ≤ 12% (@ full load / 230VAC)*
	Efficiency (Typ.)	> 77% @ 230VAC full load*
	AC Current (Typ.)	0.1A Max.
	Inrush Current (Typ.)	Max. 3.96A at 230VAC; 90μs duration
	Leakage Current	< 5mA /230VAC
	Anti Surge	L-N:2KV
Control	Dimming Interface	Casambi
	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℃
	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	135x35x20mm (L*W*H)
	Warranty	5 Years

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

- Casambi dimmable LED driver, works with Casambi network
- 2 channels dimmable LED driver. Max. output power 15W
- 100-700mA current selectable via NFC program tool. Min.current gear lower to 0.1mA
- Class Ⅱ power supply, full isolated plastic case
- High power factor and efficiency
- ON/OFF, Dimming and Tunable White control
- Amplitude/CCR dimming, smooth and deep dimming
- IP20 rating, 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.

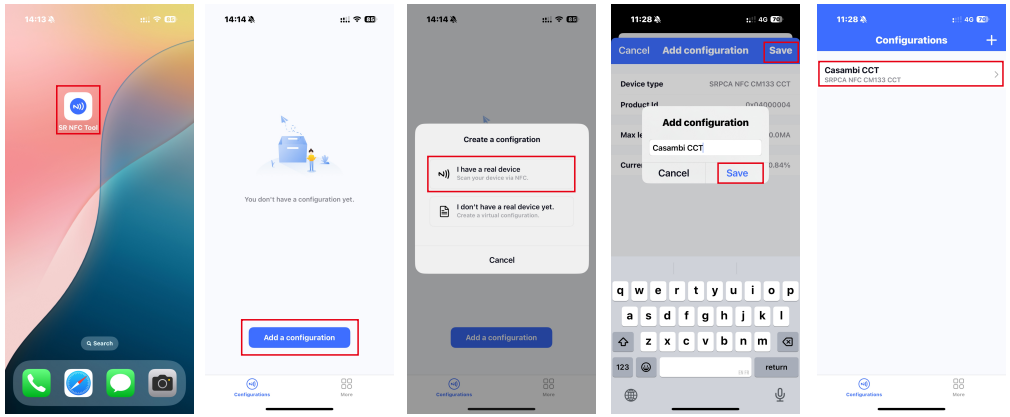
Operation

Configuration via NFC tool

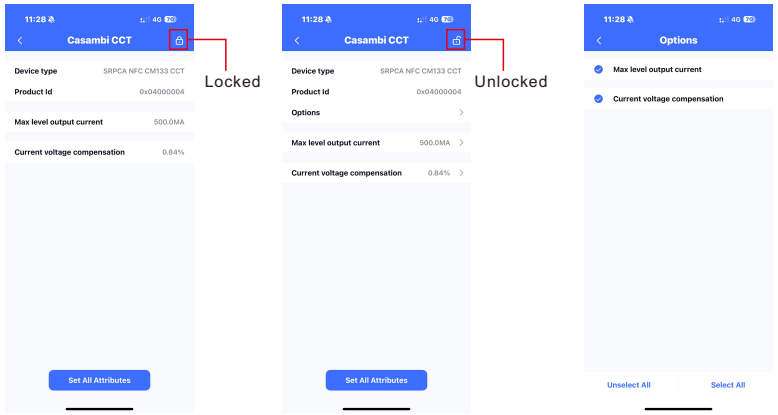
Note:

1) Please do not power on the device during the whole programming process.
2) Please make sure your phone has NFC function and enable it.
3) If you can't download the app, please contact us.

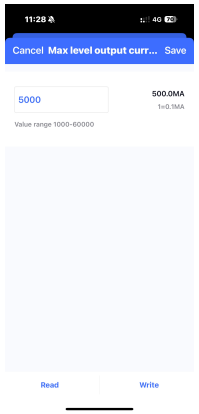
Step 1: Install **SR NFC Tool** app on your phone(search SR NFC Tool from Apple Store or Google Play), and add the device following the app instructions.



Step 2: Unlock the device and set the wanted parameters.

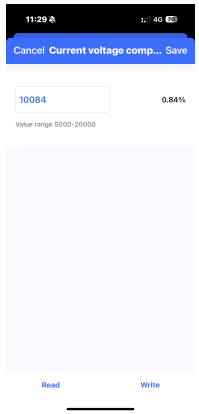


Parameters explained:



Target Current Setting:

0.1mA adjustment for each current gear.

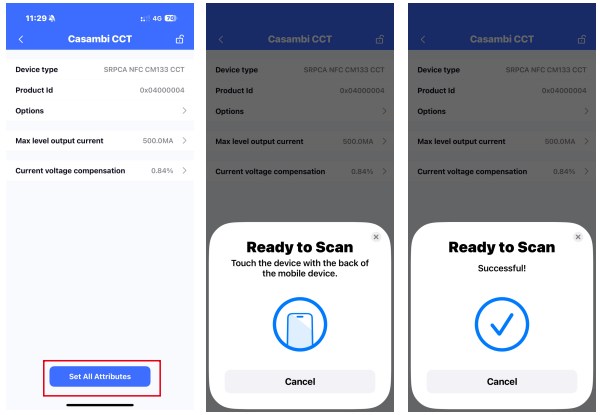


Current Compensation:

It is realized by setting different levels of current compensation for NFC drivers in different power segments and different currents of the driver.

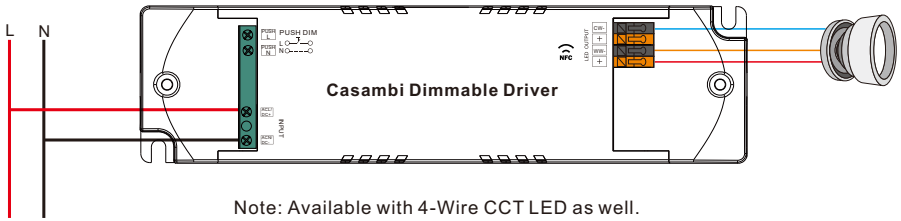
It is a method to realize fine lighting control for most constant-current luminaries in the market (such as downlight, spotlight, panel light, etc).

Step 3: After setting, write all configurations to the device.



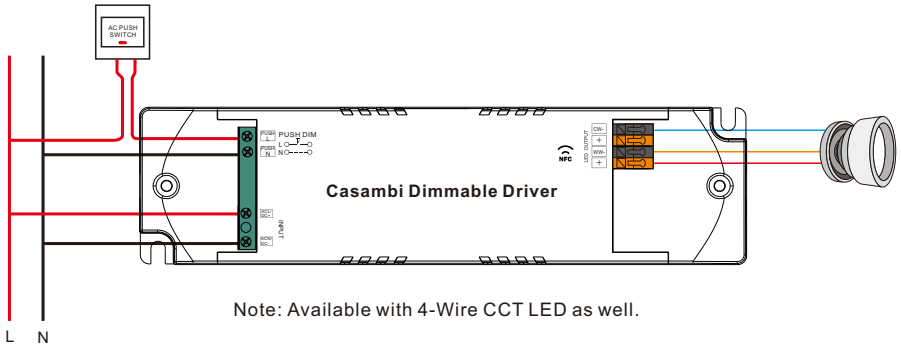
Wiring Diagram

Application 1 (Without PUSH)



Note: Available with 4-Wire CCT LED as well.

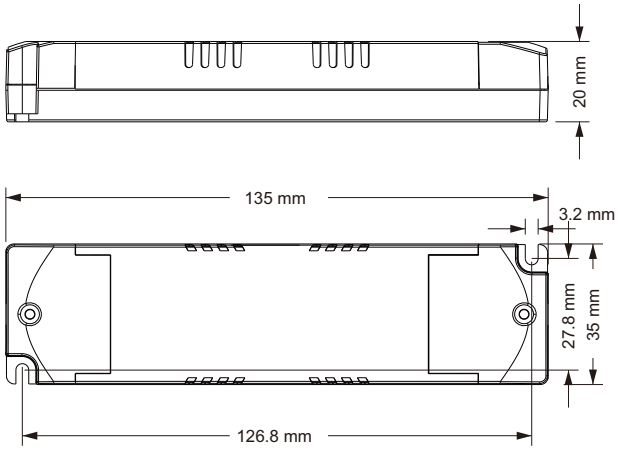
Application 2 (With PUSH)



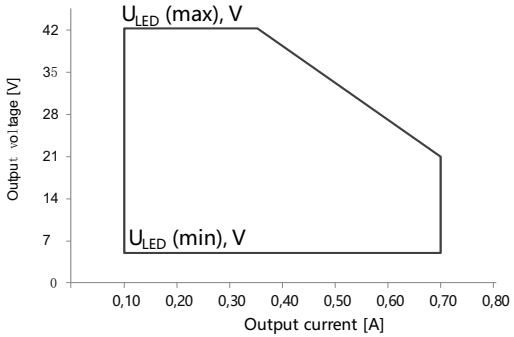
Note: Available with 4-Wire CCT LED as well.

Push Dim
1) Short press to switch on or off.
2) Long press to dim up or dim down.

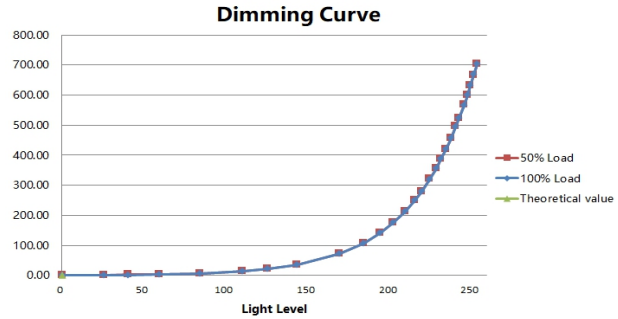
Product Dimension



Operating window

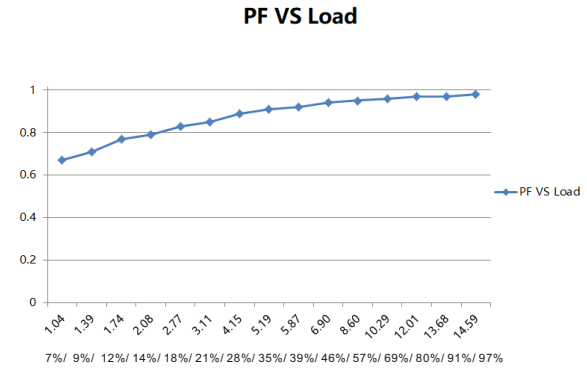


Dimming Curve



Note: Test data under 700mA gear

Driver Performance



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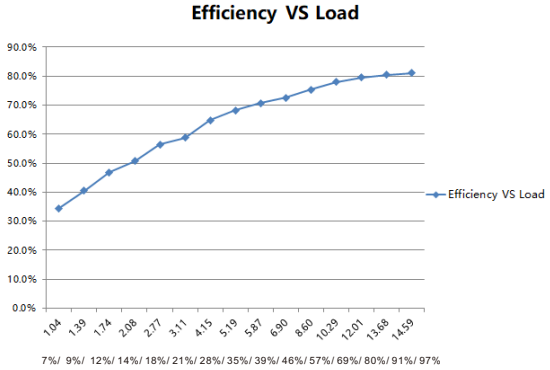

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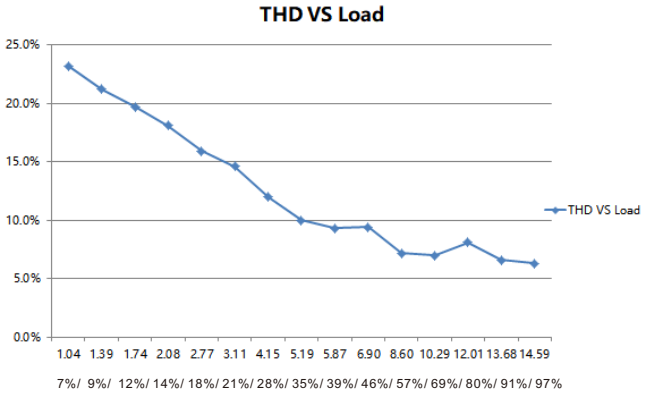


Note: Test data under 700mA gear

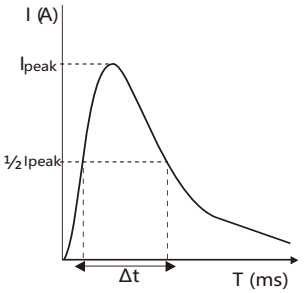
Expected Lifetime

Module Number	Output current	Ta	30 °C	40 °C	45 °C	•••	
SRP-CA9105N-15CC100-700	100 – 700 mA	Tc	50 °C	60 °C	70 °C	•••	85 °C
SRP-CA9105N-15CCT100-700	100 – 700 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-CA9105N-15CC100-700	3.96A	90μs	37	49	60	75	94	63	81	100	125	156	80	104	128	160	200
SRP-CA9105N-15CCT100-700	3.96A	90μs	37	49	60	75	94	63	81	100	125	156	80	104	128	160	200



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