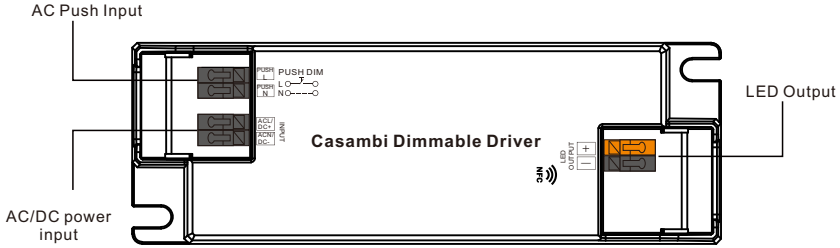
TRONIX

Article 214-226
Casambi 25W 1CH NFC Enabled LED Driver(Constant Current)

CASAMBI SELV warranty 5 years RoHS COMPLIANT

Important: *Read All Instructions Prior to Installation*

Function introduction



Product Data

Output	LED Channel	1
	DC Voltage	6-54V, Max. 60V
	Current	250-700mA via NFC tool; Min.current gear lower to 0.1mA, default 500mA
	Current Accuracy	±3%(±1%@Certain full load) @ full load
	Rated Power	Max. 25W
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 ≤ 13% (@ full load / 230VAC)*
	Efficiency (Typ.)	> 83% @ 230VAC full load*
	AC Current (Typ.)	0.2A Max.
	Inrush Current (Typ.)	Max. 5.64A at 230VAC; 72μs duration
	Leakage Current	< 5mA /230VAC
	Standby Power Consumption	< 0.5W
	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	120x41x28mm (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
- 1 channel dimmable LED driver. Max. output power 25W
- 250-700mA 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
- To switch and dim LED lighting luminaries
- 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.

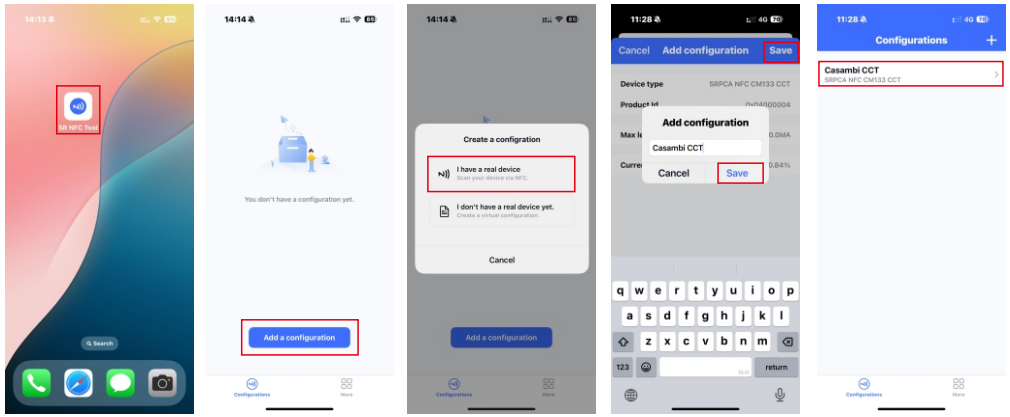
Operation

Configuration via NFC tool

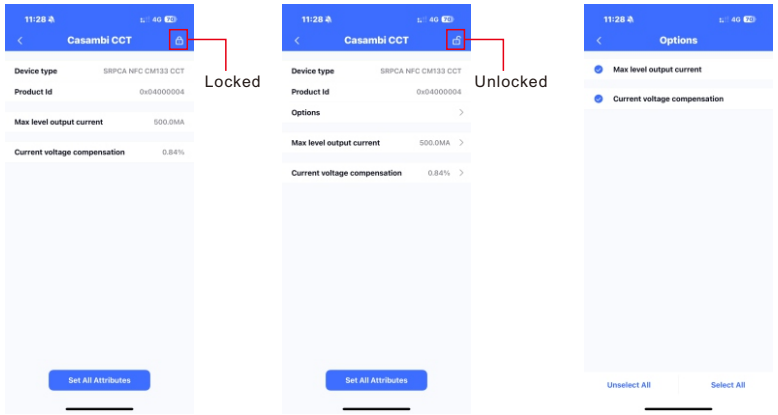
Note:

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.

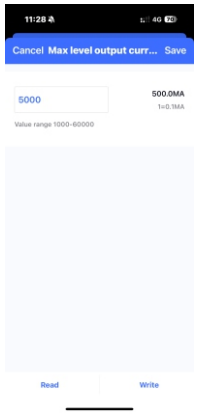
Step 1: Install **SR NFC Tool** app on your phone(search SR NFC Tool from Apple Store or Google Play), and add the device following the app instructions.



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

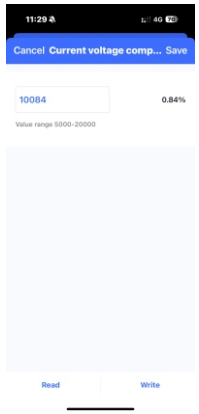


Parameters explained:



Target Current Setting:

0.1mA adjustment for each current gear.

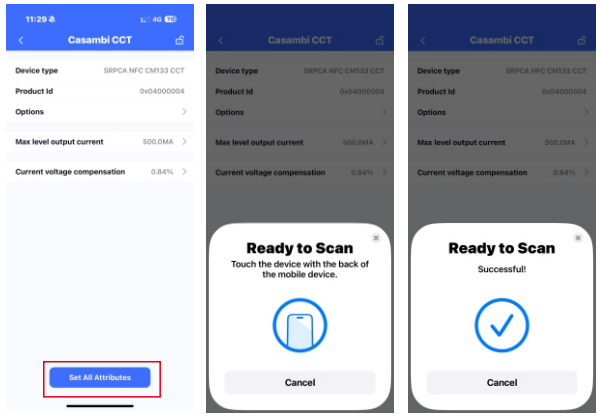


Current Compensation:

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

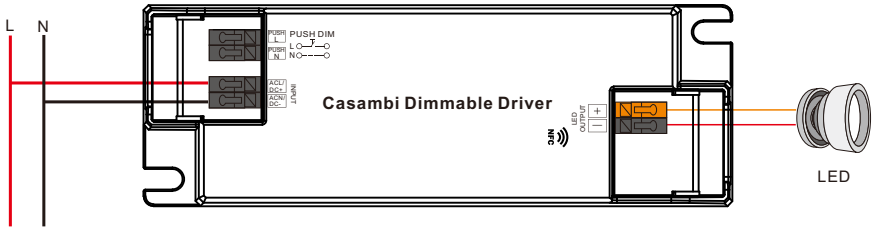
It is a method to realize fine lighting control for most constant-current luminaries in the market (such as downlight, spotlight, panel light, etc).

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

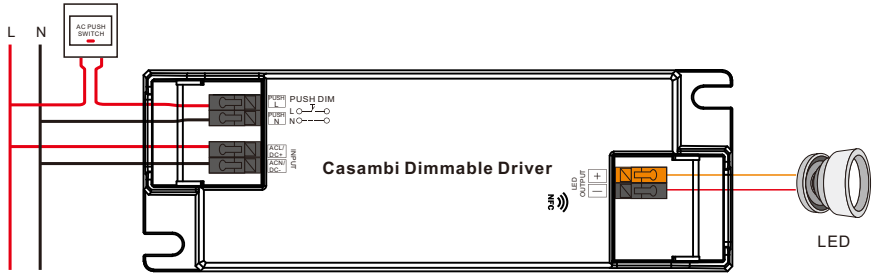


Wiring Diagram

Application 1 (Without PUSH)

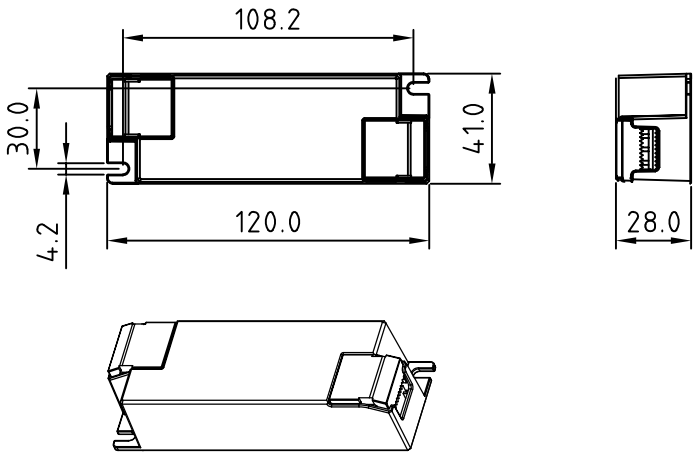


Application 2 (With PUSH)

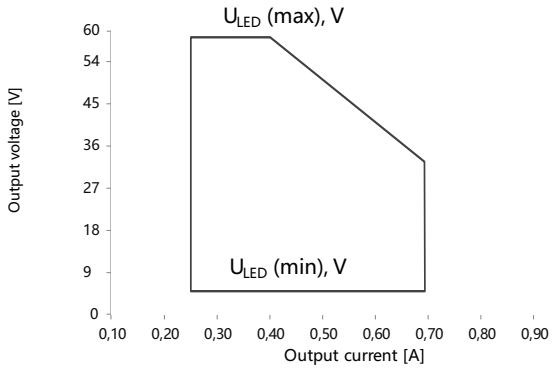


Push Dim
1) Short press to switch on or off.
2) Long press to dim up or dim down.

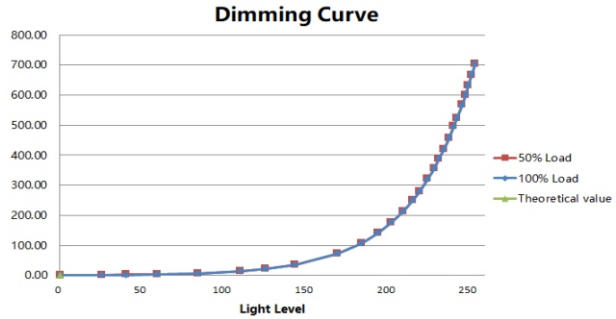
Product Dimension



Operating window

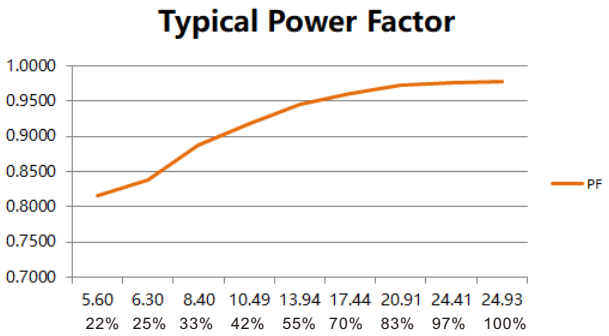


Dimming Curve



Note: Test data under 700mA gear

Driver Performance



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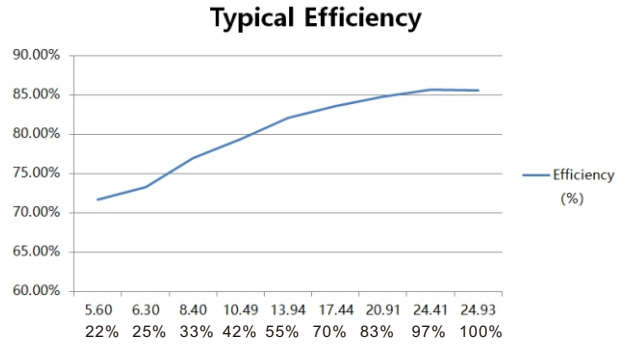

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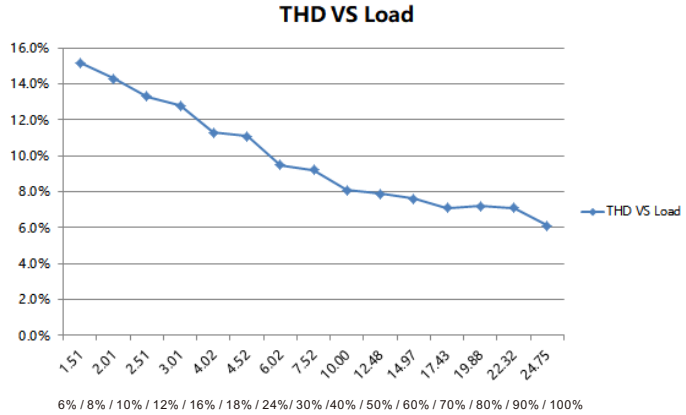
Driver Performance



Note: Test data under 700mA gear

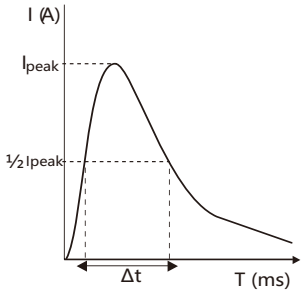
Expected Lifetime

Module Number	Output current	Ta	30 °C	40 °C	45 °C	•••	
214-226	250 – 700 mA	Tc	50 °C	60 °C	70 °C	•••	85 °C
		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
214-226	5.64A	72μs	26	34	42	53	66	35	45	56	70	87	40	52	64	80	100



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