

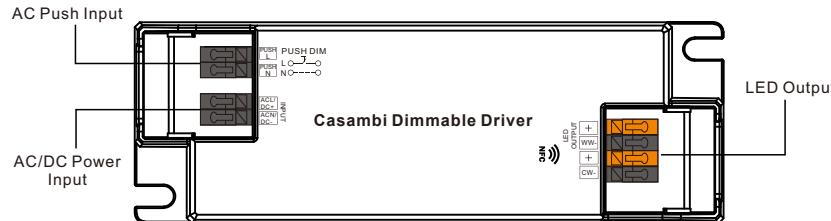
Article 214-225

## Casambi 25W 2CH 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	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
Control	Standby Power Consumption	< 0.5W
	Anti Surge	L-N:2KV
	Dimming Interface	Casambi/AC Push
	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°C ~ +45°C
	Max. Case Temp.	Tc=85°C
	Working Humidity	10% ~ 95% RH non-condensing
	Storage Temp. & Humidity	-40°C ~ +80°C, 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°C / 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
- 2 channels 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
- ON/OFF, Dimming and Tunable White control
- PUSH DIM function enabled
- 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.

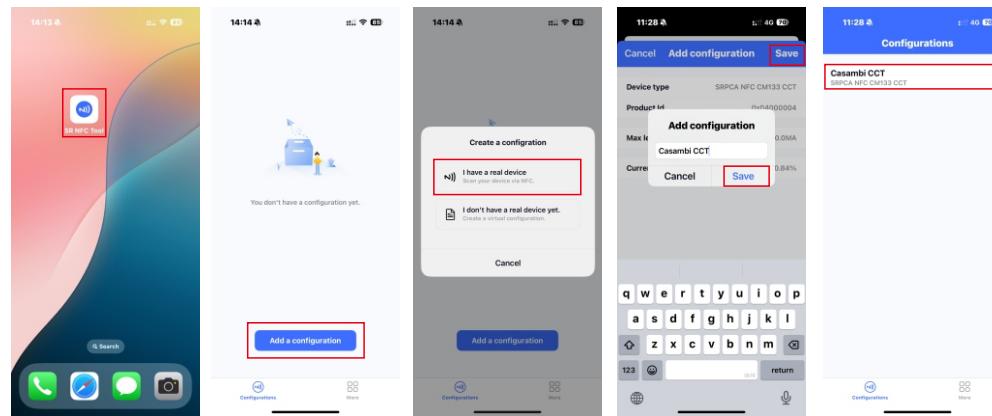
### Operation

#### Configuration via NFC tool

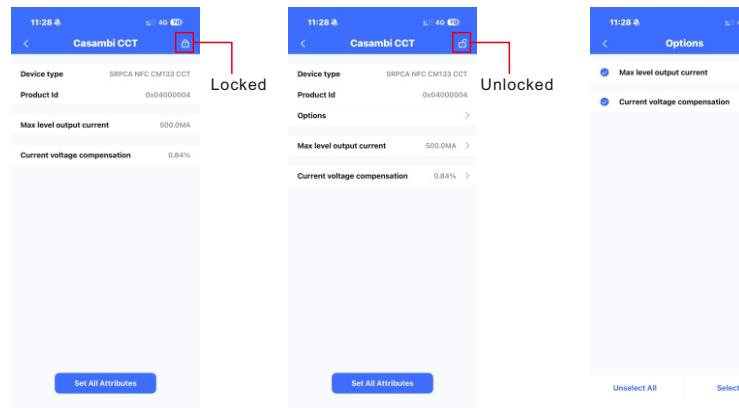
##### Note:

- 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.

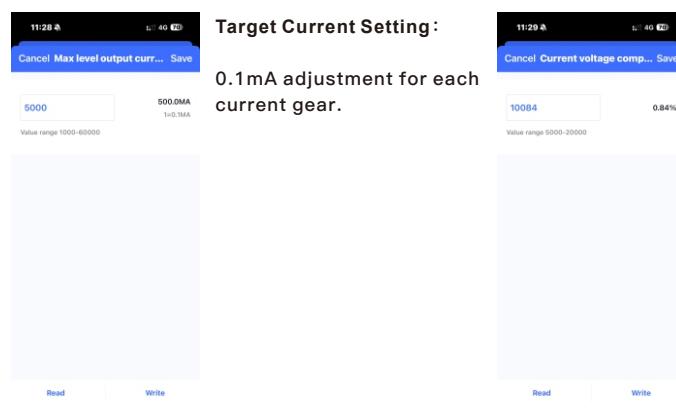
**Step 1:** Install **SR NFC Tool** app on your phone(search SR NFC Tool from Apple Store or Google Play), and add the device following the app instructions.



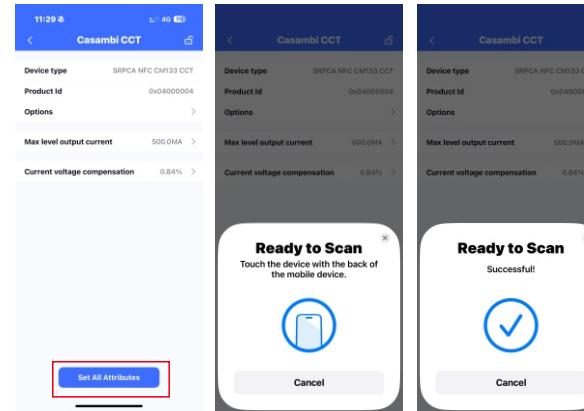
**Step 2: Unlock the device and set the wanted parameters.**



**Parameters explained:**



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



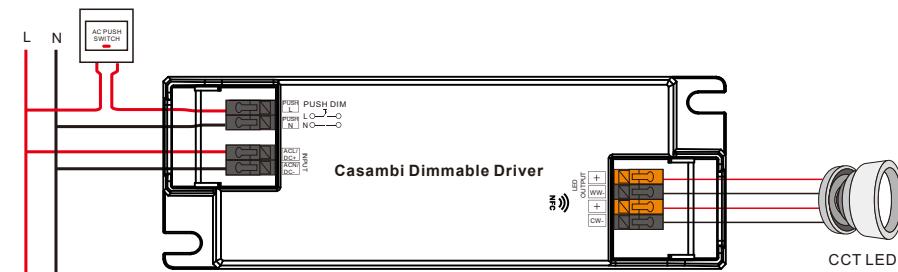
## Wiring Diagram

### Application 1 (Without PUSH)



Note: Available with 3-wire CCT luminaries as well

### Application 2 (With PUSH)

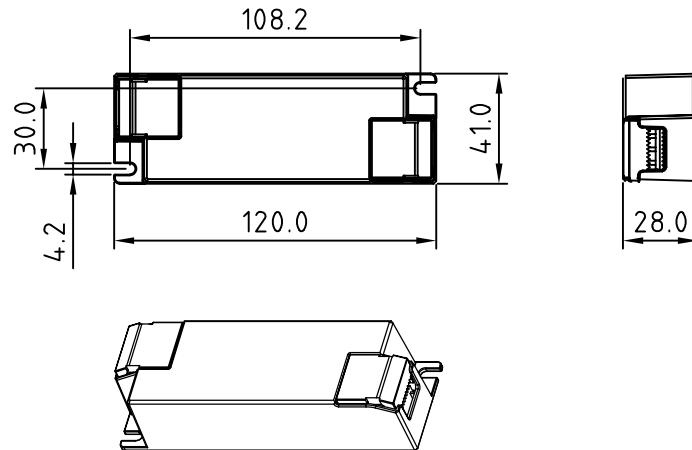


Note: Available with 3-wire CCT luminaries as well

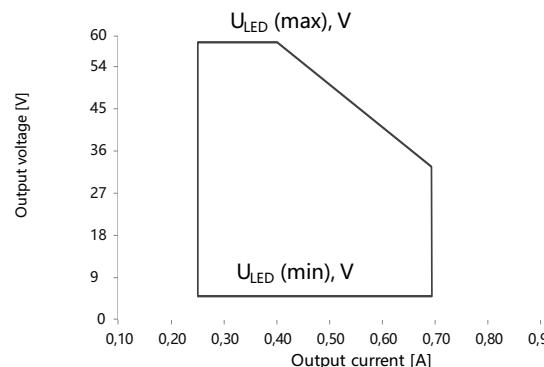
#### Push Dim

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

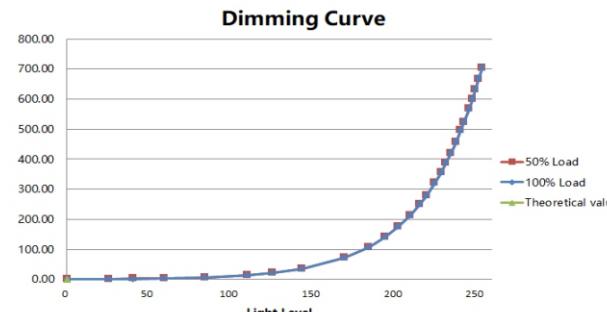
## Product Dimension



## Operating window



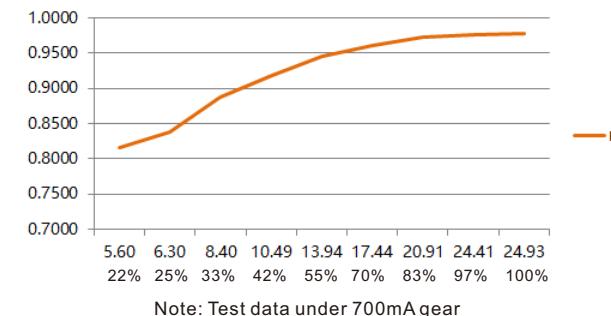
## Dimming Curve



Note: Test data under 700mA gear

## Driver Performance

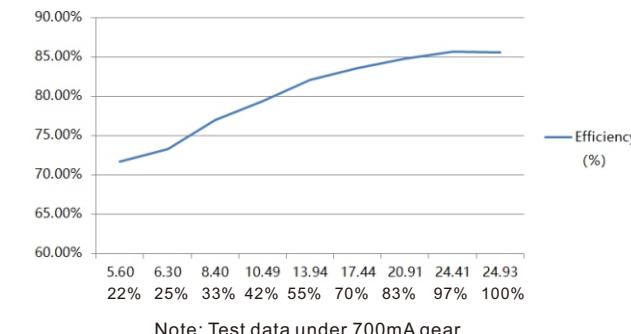
### Typical Power Factor



Note: Test data under 700mA gear

## Driver Performance

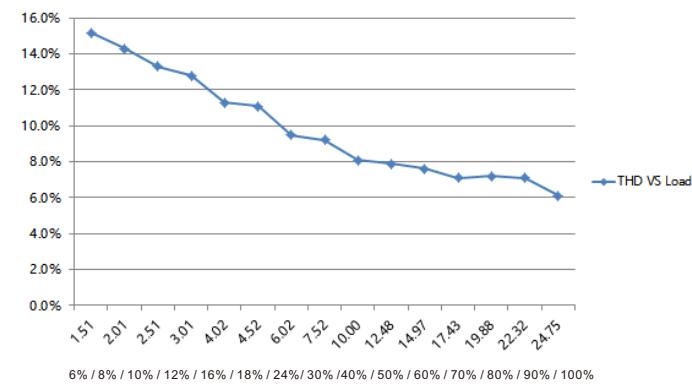
### Typical Efficiency



Note: Test data under 700mA gear

## Driver Performance

### THD VS Load



Note: Test data under 700mA gear

## Expected Lifetime

Module Number=T	Output current	Ta	30 °C	40 °C	45 °C	***
214-227	250 – 700 mA	Tc	50 °C	60 °C	70 °C	***
						85 °C

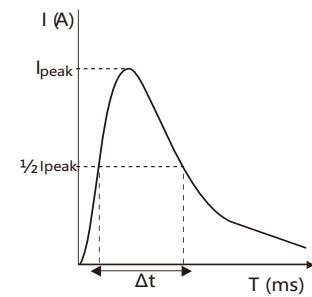
Lifetime	> 100,000 h	> 100,000 h	> 100,000 h	> 40,000 h
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The LED driver is designed for a lifetime stated above under reference conditions.

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
214-227	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