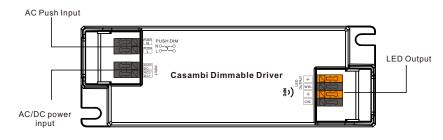
Casambi 45W 2CH NFC Enabled LED Driver(Constant Current)



Important: Read All Instructions Prior to Installation

Function introduction



Product Data

	LED Channel	2									
	DC Voltage	6-54V, Max. 60V									
	Current	500-1400mA via NFC setting; Min.current gear lower to 0.1mA									
Output	Current Accuracy	±3%(±1%@Certain full load) @ full load									
	Rated Power	Max. 45W									
	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 ≤ 12% (@ full load / 230VAC)*									
Input	Efficiency (Typ.)	> 85% @ 230VAC full load*									
	AC Current (Typ.)	0.3A Max.									
	Inrush Current (Typ.)	Max. 8.56A at 230VAC; 88µs duration									
	Leakage Current	< 5mA /230VAC									
	Standby Power Consumption	< 0.5W									
	Anti Surge	L-N:2KV									
	Dimming Interface	Casambi									
Control	Dimming Range	0.01%-100%@ Max current									
Control	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°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	145x45x28mm (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 45W
- 500-1400mA 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.

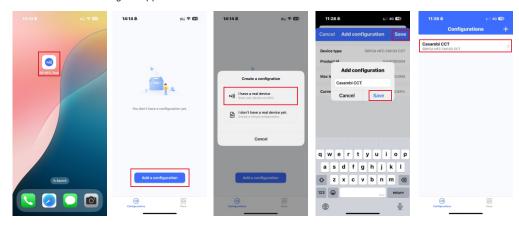
Operation

Configuration via NFC tool

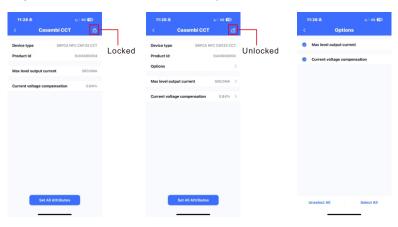
Note

- 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.

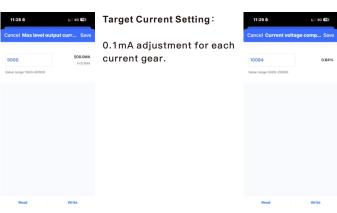
Step 1: Install SR NFC Tool app on your phone(search SR NFC Tool from Apple Store or Google Play), and add the device following the app instructions.



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



Parameters explained:

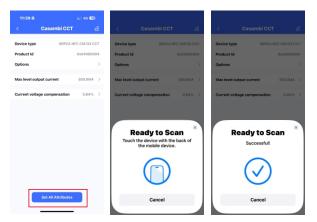


Current Compensation:

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

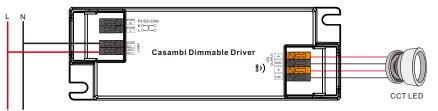
It is a method to realize fine lighting control for most constant-current luminaries in the market (such as downlight, spotlight, panel light, etc).

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



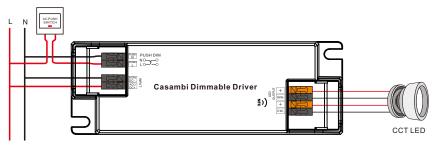
Wiring Diagram

Application 1 (Without PUSH)



Note: Avaliable with 3-wire CCT luminaries as well

Application 2 (With PUSH)

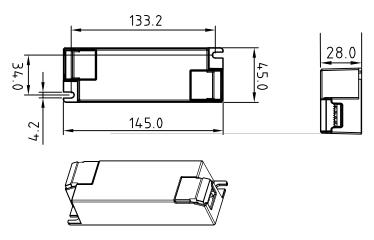


Note: Avaliable with 3-wire CCT luminaries as well

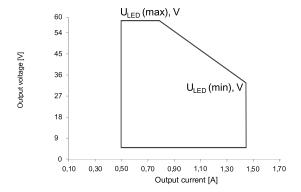
Push Dim

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

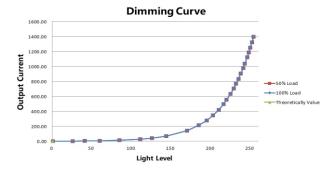
Product Dimension



Operating window



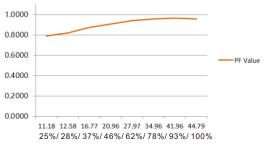
Dimming Curve



Note: Test data under 1400mA gear

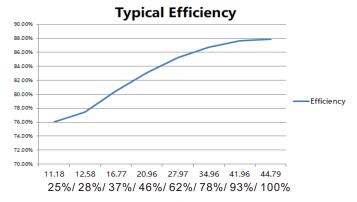
Driver Performance

Typical Power Factor



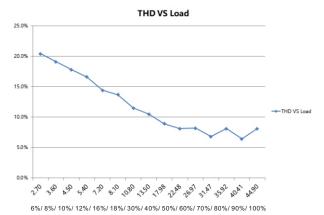
Note: Test data under 1400mA gear

Driver Performance



Note: Test data under 1400mA gear

Driver Performance



N-t-- T--t d-t- --- d-- 1100-- A --- --

Note: Test data under 1400mA gear

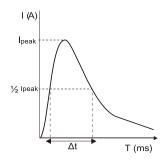
Expected Lifetime

Module Number	Output current	Та	30 °C	40 °C	45 °C	•••	
SRP-CA9105N-45CC500-1400	500 – 1400 mA	Тс	50 °C	60 °C	68 °C	•••	85 ℃
SRP-CA9105N-45CCT500-140	0 500 – 1400 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	h Max.quantity of LED Driver per MCB														
			B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
SRP-CA9105N-45CC500-1400	8.56A	88µs	17	22	28	35	43	28	36	44	56	70	32	41	51	64	80
SRP-CA9105N-45CCT500-1400	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
- 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

Quick Connector Box (Optional for Order)

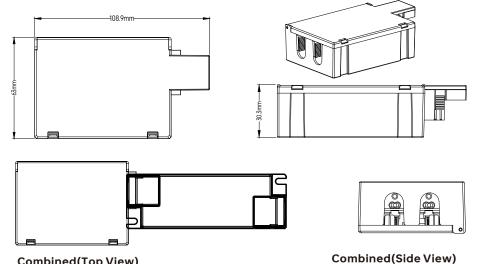
SRP-Loopbox-01

Loop in & Loop Out design

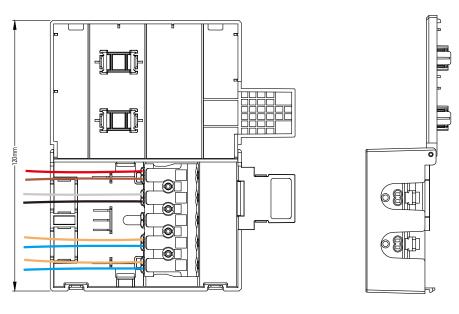
1x DALI Loop in 1x AC Loop in 1x DALI Loop out 1x AC Loop out

Combined(Top View)

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



Note: Because the height of the 45W 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.

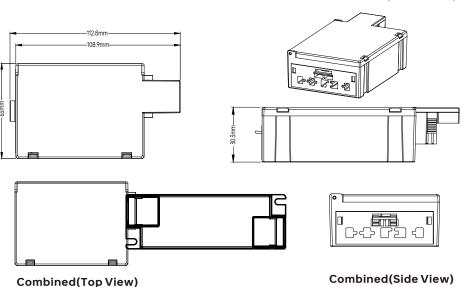


Quick Connector Box (Optional for Order)

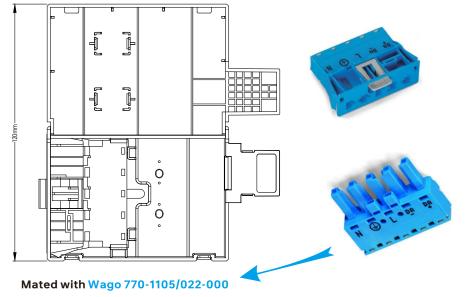
SRP-Loopbox-02

Plug & Play design (Wago Terminal)

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



Note: Because the height of the 45W 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.



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