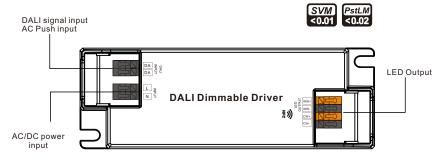
10W DALI DT8 NFC Enabled LED Driver(Constant Current)



Important: Read All Instructions Prior to Installation

Function introduction



Product Data

	LED Channel	2						
	DC Voltage	3-42V, Max. 50V						
	Current	100-500mA via NFC tool; Min.current gear lower to 0.1mA, default 250mA						
Output	Current Accuracy	±3%(±1%@Certain full load) @ full load						
	Rated Power	Max. 10W						
	Voltage Range	220-240VAC/220-240VDC						
	Absolute Voltage Range	196-264VAC/196-264VDC						
	Frequency Range	0/50/60Hz						
	Power Factor (Typ.)	> 0.945 @ 230VAC Full load*						
	Total Harmonic Distortion	THD ≤ 15% (@ full load / 230VAC)*						
Input	Efficiency (Typ.)	>77% @ 230VAC full load*						
	AC Current (Typ.)	0.1A Max.						
	Inrush Current (Typ.)	Max. 4.32A at 230VAC; 80µs duration						
	Leakage Current	< 5mA/230VAC						
	Standby Power Consumption	< 0.5W						
	Anti Surge	L-N:2KV						
	Dimming Interface	DALI Device Type 8 (DALI consumption < 2mA)/ AC Push						
Control	Dimming Range	0.01%-100%@ Max current						
Control	Dimming Method	Amplitude/CCR dimming						
	Dimming Curve	Linear/ Logarithmic optional						

	Short Circuit	Yes, remove the fault conditions and re-power the device.						
Protection	Over Current	Yes, remove the fault conditions and re-power the device.						
	Over Temperature	Yes, remove the fault conditions and re-power the device.						
	Working Temp.	-25℃ ~ +45℃						
Environment	Max. Case Temp.	Tc=85℃						
Environment	Working Humidity	10% ~ 95% RH non-condensing						
	Storage Temp. & Humidity	-40°C ~ +80°C, 10% ~ 95% RH						
	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						
Safety & EMC	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						
Others	Dimension	101x36x25mm (L*W*H)						
	Warranty	5 Years						

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

- In compliance with IEC 62386-101:2014, IEC 62386-102:2014, IEC 62386-207 Ed2, IEC 62386-209:2011
- Built-in DALI-2 interface, DALI DT8 device
- Dimmable LED driver. Max. output power 10W
- 100-500mA current selectable via NFC program tool. Min.current gear lower to 0.1mA
- DALI Address/Group/Scene setting via NFC program tool.
- Class II power supply, full isolated plastic case
- High power factor and efficiency
- On/off, Dimming, Tunable White control
- Amplitude/CCR dimming, smooth and deep dimming
- Compatible with universal DALI masters that support DT8 commands
- Error report function
- DALI-251/252/253 Enabled, DALI data inside
- 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

With DALI master

1. DALI Address

1 DALI address for 2 channels output are assigned by DALI Master controller automatically, please refer to user manuals of compatible DALI Masters for specific operations.

With NFC Programming devices

Note

- 1) Do wiring according to the wiring diagram and power on the DALI system .
- 2) Recommend setting parameters without power-on the DALI 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 Play) . Then open the APP .



- 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.





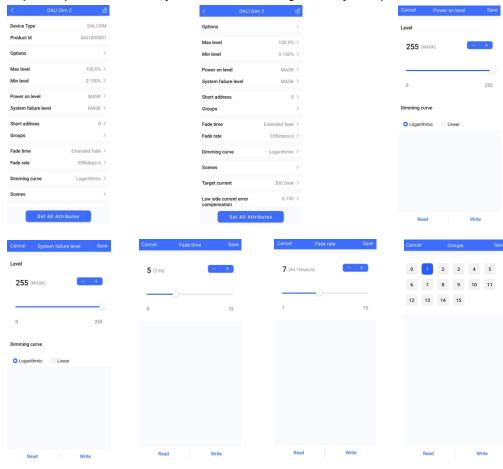


Step 3: Unlock device, enter parameters configuring page.

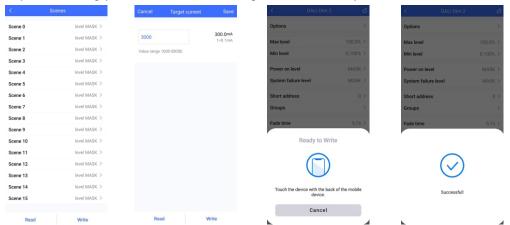


- Note: 1. You have to unlock the device then do some settings
 - 2. Only when the corresponding function is selected, the function interface will be displayed.

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



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

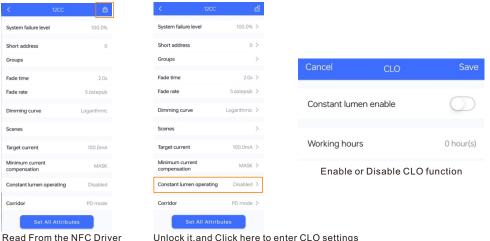


Tips

- 1. NFC function doesn't require any power driver.
- 2. Many functions can be configured by NFC. Kindly check your desired functions.
- 3. All of our DALI drivers are in the best performance within our DALI master/ DALI IoT gateway.
- 4. This is a 2-channel output product, so we recommend ensuring that both loads are connected and have the same loads for each channel at the same time during testing.
- 4.1If you have to connect 1 channel to test, please follow the following moves (before powering on).
- 4.1.1If you are connected to "+/WW" (signal channel), please make sure to set "power on CCT" of NFC Driver to 2700k (DALI default value), and write to the device.
- 4.1.2If you are connected to "+/CW" (signal channel), please make sure to set "power on CCT" of NFC Driver to 6500k (DALI default value), and write to the device.

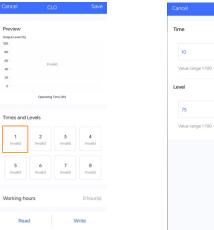
CLO AND CORRIDOR DIM(CD) FUNCTION INSTRUCTION

1. Open APP, and Find the CLO/CD functions



Unlock it, and Click here to enter CLO settings

2.Enter CLO Setting homepage







Enable CLO function

Click "1".and set its time and level

Set your desired time and levels. Graphic display

Tips:

Working hours: Ability to calculate the working hours of a single driver.

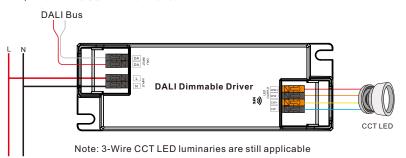
Additional Remarks



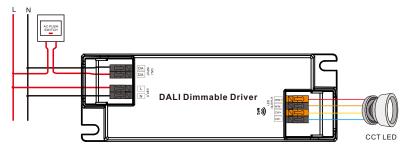
- 1. Please make sure your APP version is 1.0.10 or higher.
- 2. Please make sure NFC driver's firmware is available with **CLO** functions.

Wiring Diagram

- 1. With DALI bus
 - 1) With 4-wire CCT LED luminarie



2. With PUSH dimmer

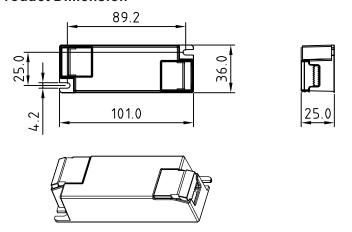


Note: 3-Wire CCT LED luminaries are still applicable

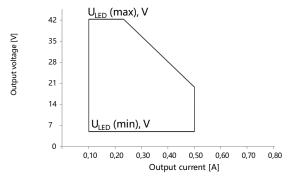
AC Push Function

- 1) Click the button to switch ON/OFF
- 2) Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the operation to adjust light intensity to opposite direction. The dimming range is from 1% to 100%.
- 3) Double click the button to switch between brightness mode and color temperature mode.
- 4) Press and hold down the button to change color temperature under color temperature mode.

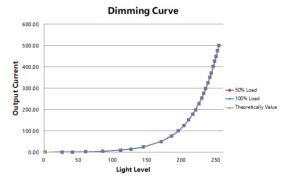
Product Dimension



Operating window

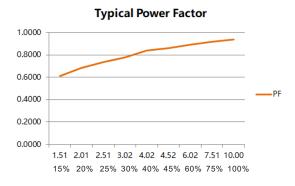


Dimming Curve



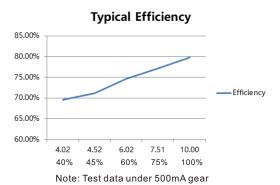
Note: Test data under 500mA gear

Driver Performance

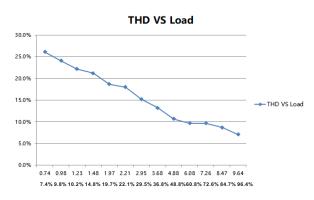


Note: Test data under 500mA gear

Driver Performance



Driver Performance



Note: Test data under 500mA gear

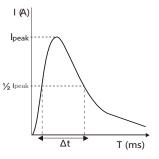
Expected Lifetime

Module Number	Output current	Та	30 °C	40 °C	45 °C	•••	
SRP-2305N-10CC100-500	100 – 500 mA	Tc	50 ℃	60 °C	65 °C	•••	85 °C
SRP-2309N-10CCT100-500	100 – 500 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	lpeak	Twidth				Max	.qua	ntity	of L	ED D	rivei	per	мсв	1			
			B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
SRP-2305N-10CC100-500	4.32A	80µs	34	45	55	69	86	57	75	920	115	144	80	104	128	160	200
SRP-2309N-10CCT100-500	4.32A	80µs	34	45	55	69	86	57	75	92	115	144	80	104	128	160	200



Note:

- 1. Those MCB parameters are based on ABB S200 series circuit breakers.
- For different brands and models of miniature circuit breakers, the quantity of drivers will have difference.
- 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		
2023-6-17	V1.6	Update CLO function	Romeo		

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

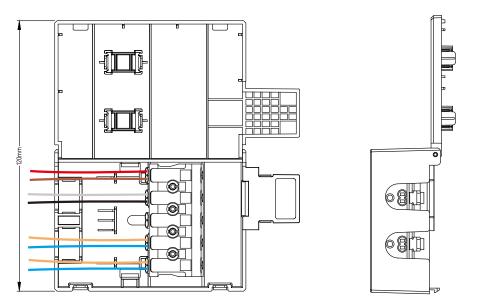
Quick Connector Box (Optional for Order)

SRP-Loopbox-01

Loop in & Loop Out design 1x DALILoop in 1x ACLoop in 1x ACLoop out 1x

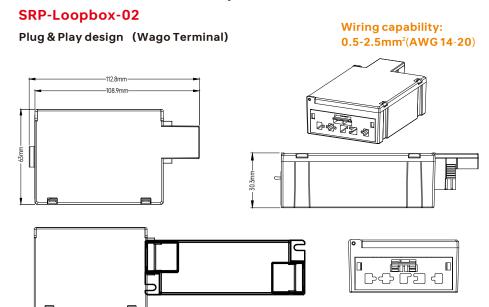
Wiring capability:

Note: Because the height of the 10W 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)

Combined(Top View)



Note: Because the height of the 10W 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.

Combined(Side View)

