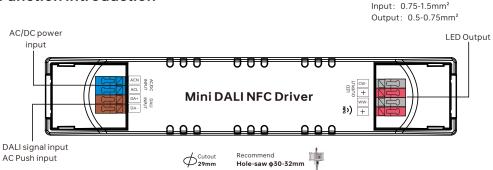
10W Mini DALI DT8 NFC LED Driver(Constant Current)

Wire Gauge:

Important: Read All Instructions Prior to Installation

Function introduction



Product Data

	LED Channel	2
	DC Voltage	3-42V
	Current	100-450mA via NFC tool; Min.current gear lower to 0.1mA, default 350mA
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.)	> 0.93 @ 230VAC Full load
	Total Harmonic Distortion (Typ.)	THD ≤ 15% (@ full load / 230VAC)
Input	Efficiency (Typ.)	> 75% @ 230VAC full load
	AC Current (Typ.)	0.1A Max.
	Inrush Current (Typ.)	Max. 3.18A at 230VAC; 22µs duration
	Leakage Current	< 5mA /230VAC
	Standby Power Consumption	< 0.5W
	Anti Surge	L-N:1KV
	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℃			
Fouriroomoot	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 & FMC	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℃ ambient temperature			
Others	Dimension	122x23x21mm (L*W*H)			
	Warranty	5 Years			

• 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
- 100-450mA 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
- To switch and dim CCT LED lighting luminaries
- Amplitude/CCR dimming, smooth and deep dimming
- Compatible with universal DALI masters that support DT8 commands
- DALI-251/252/253 Enabled, DALI data inside
- Error report function
- LED Driver has Class A sound ratings per Energy-star regulated
- 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

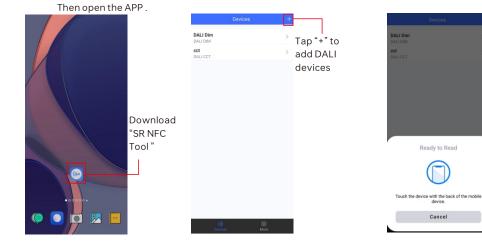
1) Do wiring according to the wiring diagram and power on the DALI system .

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).



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.



llans level	
Add confi	guration
Cancel	Save

>
>
>

Step 3: Unlock device, enter parameters configuring page.

<	DALI Dim 2		<		6		<	Options
Device Type	DALI DIM	Locked	Device Type		DALI DIM	Linda als M	0	Max level Min level
Product Id	0x01000001	LOCKEU	Product Id		0x01000001	Unlock it		Mill level
Target current	300.0mA		Options		>		0	Power on level System failure level
			Target current		300.0mA >		•	Short address Groups
							•	Fade time Fade rate
							0	Dimming curve
							0	Scenes
							0	Target current
							0	Low side current error comp
Set	t All Attributes		s	et All Attribute	5			Unselect All Se

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.

	m 2 🗗
Device Type	DALI DIM
oduct Id	0x01000001
ions	
x level	100.0% >
in level	0.100% >
ower on level	MASK >
ystem failure level	MASK >
nort address	0 >
roups	>
ade time	Extended fade >
de rate	358steps/s >
mming curve	Logarithmic >
	as gent in the s
Scenes Set All Att	>
Set All Att	ure level Save
Set All Att	
Set All Att	ure level Save
Set All Att cel System fail el 255 (MASK)	ure level Save
Set All Att	ure level Save
Set All Att	ure level Save

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

	Scenes	Cancel	Target current	Save	< DALI Dim	2 යි	< DALI Din	12
ne O	level MASK >				Options	>	Options	
ne 1	level MASK >	3000		300.0mA 1=0.1mA	Max level	100.0% >	Max level	
ne 2	level MASK >	Value range	1000-50000		Min level	0.100% >	Min level	
3	level MASK >							
4	level MASK >				Power on level	MASK >	Power on level	
5	level MASK >				System failure level	MASK >	System failure level	
6	level MASK >				Short address	0 >	Short address	
7	level MASK >				Groups	>	Groups	
3	level MASK >				Fade time	5.7s >	Fade time	
	level MASK >				rade unie	5.78 7	Fade time	
	level MASK >				Ready to V	/rite		
	level MASK >				\sim		\sim	
	level MASK >))
	level MASK >						Ċ	/
	level MASK >				Touch the device with the b	ack of the mobile	Successfr	
5	level MASK >				device.		Successi	10
					Cancel			
Read	Write	Rea	id V	Write			L	

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.

4.1 If you have to connect 1 channel to test, please follow the following moves (before powering on).

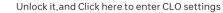
4.1.1If you are connected to "+/WW" (signal channel), please make sure to set **"power on CCT"** of NFC Driver to 2700k (DALI default value), and write to the device.

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 FUNCTION INSTRUCTION

1. Open APP, and Find the CLO function

Read From the NFC Driver



2.Enter CLO Setting homepage

Preview			
Dutput Level (%)			
100			
80			
60	Inve	-E-d	
40		310	
20			
0			
	Operating	Time (kh)	
Times and	Levels		
Times and 1 Invalid	Levels 2 Invalid	3 Irwalid	4 Invalid
1	2	-	
Invalid	2 Invalid 6 Invalid	Invalid 7	invalid 8
1 Invalid 5 Invalid	2 Invalid 6 Invalid	Invalid 7 Invalid	Invalid 8 Invalid





Set your desired time and levels. Graphic display

Tips:

4

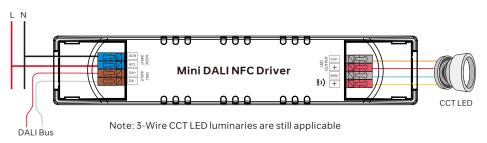
0 hour(s)

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

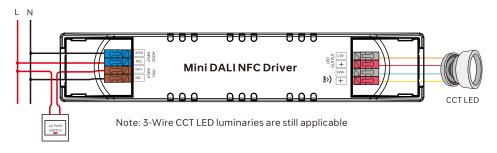
Wiring Diagram

1. With DALI bus

1.1 With CCT LED luminarie



2. With PUSH dimmer



AC Push Function

1) Click the button to switch ON/OFF

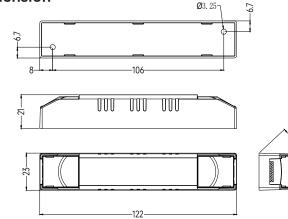
2) Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the

operation to adjust light intensity to opposite direction. The dimming range is from 1% to 100%.

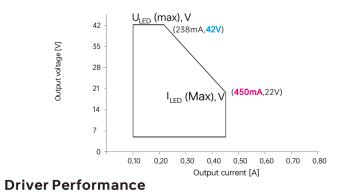
3) Double click the button to switch between brightness mode and color temperature mode.

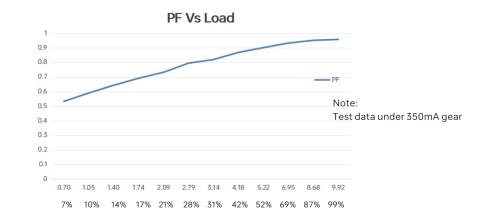
4) Press and hold down the button to change color temperature under color temperature mode.

Product Dimension

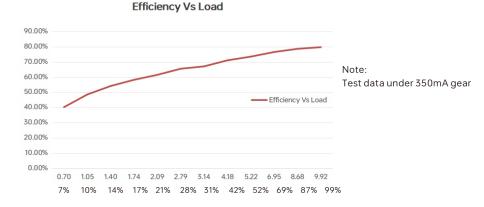


Operating window

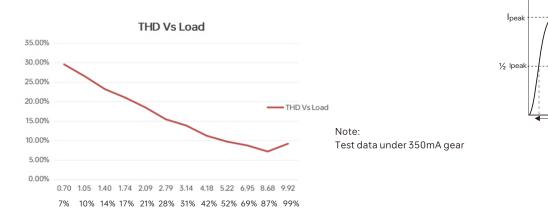




Driver Performance



Driver Performance



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

Expected Lifetime

Module Number	Output current	Та	30 °C	40 °C	45 °C	
SRPM-2305N-10CC100-45	0 100 – 450 mA	Тс	65 °C	77 °C	85 °C	
SRPM-2309N-10CCT100-4	50100 - 450 mA	Lifetime	> 100,000 h	> 80,000 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	B10	B13	B16	Max B20	.qua B25	ntity C10	of LE C13	D Dri C16	iver p C20	oer M C25	CB D10	D13	D16	D20	D25
SRPM-2305N-10CC100-450	3.18A	22µs	86	111	137	171	214	100	130	160	200	250	114	149	183	229	286
SRPM-2309N-10CCT100-450	3.18A	22µs	86	111	137	171	214	100	130	160	200	250	114	149	183	229	286

Update log

I (A)

Δt

T (ms)

Date	Version	Update content	Update by
2024-8-8	V1.0	Initial Version	Romeo

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