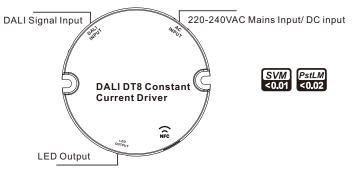
25W DALI DT8 NFC Round LED Driver(Constant Current)

Important: Read All Instructions Prior to Installation

Function introduction



Product Data

	LED Channel	2							
	DC Voltage	10-42V, Max.48V							
	Current	300-850mA via NFC tool; Min.current gear lower to 0.1mA, default 700mA							
Output	Current Accuracy	±3%(±1%@Certain full load) @ full load							
	Rated Power	Max. 25W							
	Voltage Range	220-240VAC/220-240VDC							
	Absolute Voltage Range	198-264VAC/198-264VDC							
	Frequency Range	0/50/60Hz							
	Power Factor (Typ.)	> 0.96 @ 230VAC Full load*							
	Total Harmonic Distortion	THD ≤ 13% (@ full load / 230VAC)*							
Input	Efficiency (Typ.)	> 82% @ 230VAC full load*							
	AC Current (Typ.)	0.15A Max.							
	Inrush Current (Typ.)	Max. 5.94A at 230VAC; 64µs 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, recovers automatically after fault condition is removed
Protection	Over Current	Yes, recovers automatically after fault condition is removed
	Over Temperature	Yes, recovers automatically after temperature drop
	Working Temp.	-25℃ ~+60℃
Environment	Max. Case Temp.	Tc=90℃
	Working Humidity	10% ~ 95% RH non-condensing
	Storage Temp. & Humidity	-40℃ ~ +80℃, 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°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
Others	Dimension	φ65x30mm (D*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

• Built-in DALI-2 interface, DALI DT8 device

- Dimmable LED driver. Max. output power 25W
- 300-850mA current selectable via NFC program tool. Min.current gear lower to 0.1mA
- DALI Address/Group/Scene setting via NFC program tool.
- ullet Class $I\!\!I$ 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
- Compatible with universal DALI masters that support DT8 commands
- CLO function for a further upgraded experience
- 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.

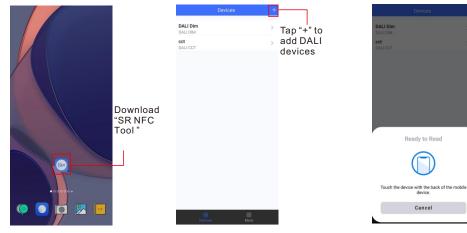
With NFC Programming devices

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.



Add confi	iguration
Cancel	Save

Devices	+
DALI Dim DALI DIM	>
CCT DALI CCT	>
DALI Dim 2 DALI DIM	>

Step 3: Unlock device, enter parameters configuring page.

LI Dim 2 🔒]	< 0	DALI Dim 2 ක්		<	
DALI DIM	Locked	Device Type	DALI DIM	Unlock it	0	Max level Min level
0x01000001	2001104	Product Id	0x01000001	Onioekn		
300.0mA		Options	>		0	Power on level System failure
		Target current	300.0mA >		•	Short address Groups
					•	Fade time Fade rate
					0	Dimming curve
					0	Scenes
					0	Target current
						Low side curre
	0x01000001	0x01000001	0x01000001 Product Id 300.0mA Options	Locked Product Id 0x0100001 300.0mA Options >	Locked Product Id Gx01000001 Unlock it 300.0mA Options >	0x01000001 Unlock it 300.0mA Options

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.

	Dim 2 🗗
се Туре	DALI DIM
Id	0×01000001
	>
x level	100.0% >
in level	0.100% >
wer on level	MASK >
ystem failure level	MASK >
ort address oups	0 >
de time de rate	Extended fade > 358steps/s >
imming curve	Logarithmic >
enes	>
Set All A Cancel System fi	ilure level Save
_evel	
255 (MASK)	- +
	255
0 mming curve	

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 Dim	2 ස්
Scene 0	level MASK >				Options	>	Options	
Scene 1	level MASK >	3000		300.0mA 1=0.1mA	Max level	100.0% >	Max level	
Scene 2	level MASK >	Value range 1	000-50000		Min level	0.100% >	Min level	
icene 3	level MASK >				D			
ene 4	level MASK >				Power on level	MASK >	Power on level	MASK >
ene 5	level MASK >				System failure level	MASK >	System failure level	
cene 6	level MASK >				Short address	0 >	Short address	
cene 7	level MASK >				Groups	>	Groups	
ene 8	level MASK >				Fade time	5.7s >	Fade time	
ene 9	level MASK >				r due time		Tode unit	0.75 7
cene 10	level MASK >				Ready to V	/rite		
cene 11	level MASK >				\sim		\sim	
ene 12	level MASK >)	(\checkmark))
ene 13	level MASK >						Ċ	
cene 14	level MASK >				Touch the device with the I	ack of the mobile	Successful	
cene 15	level MASK >				device.		Guccessia	
					Cancel			
Read	Write	Read		Write				

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.
- Note: Within Our NFC tech design, you shall probably have one of the largest NFC sensing area. The More sensitive you're able to touch, the more convenient you can have.

2.Enter CLO Setting homepage

Cancel CI	LO Save	Cancel 1	Done	Cancel	CL	_0	Sav
Preview Output Level (%)		Time		Preview Output Level (%)			
0 10 10 10	aid	10 Value range 1-100	kh	60 40 20			
) Time (kh)	Level 75	%	0 10	20 30 Operating	40 Time (kh)	
Times and Levels	3 Invalid Invalid	Value range 1-100		Times and 1 10kh 75%	2 20kh 80%	3 30kh 85%	4 40kh 90%
5 6 Invalid	7 8 Invalid Invalid			5 Invalid	6 Invalid	7 Invalid	8 Invalid
/orking hours	0 hour(s)			Working ho	ours		0 hour(:
Read	Write			Rea	d	w	/rite

Tips:

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

CLO FUNCTION INSTRUCTION

1.Open APP, and Find the CLO function

K 12CC	۵	< 12CC	ස්			
System failure level	100.0%	System failure level	100.0% >			
Short address	0	Short address	0 >			
Groups		Groups	>	Cancel	CLO	
Fade time	2.0s	Fade time	2.0s >	Caricer	CLO	
Fade rate	5.6steps/s	Fade rate	5.6steps/s >			
Dimming curve	Logarithmic	Dimming curve	Logarithmic >	Constant lum	en enable	C
Scenes		Scenes	>			
Target current	100.0mA	Target current	100.0mA >	Working hour	ſS	0 h
Minimum current compensation	MASK	Minimum current compensation	MASK >	Enable o	or Disable CLO	functio
Constant lumen operating	Disabled	Constant lumen operating	Disabled >			
Corridor	PD mode	Corridor	PD mode >			
Set All Attribu	tes	Set All Attrib	utes			
Read From the I	NFC Driver	Unlock it.and C	lick here to	enter CLO settings	i	

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** function.

Read From the NFC Driver

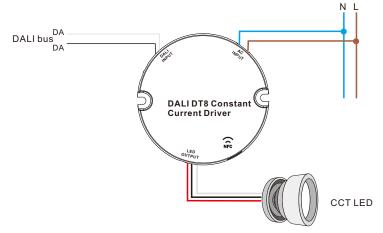
Unlock it, and Click here to enter CLO settings

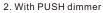
Wiring Diagram

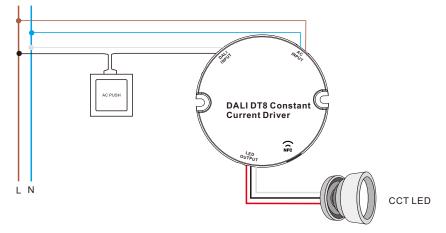
Notes:

Function	Color	Wire Gauge	Wire Length	Strip Length
ACL/DC+	Brown	28 AWG	170 mm	3 mm
ACN/DC-	Blue	28 AWG	170 mm	3 mm
LED+	Red	20 AWG	130 mm	7 mm
WW-	Black	20 AWG	130 mm	7 mm
CW-	White	20 AWG	130 mm	7 mm
DA	Black	20 AWG	130 mm	7 mm
DA	White	20 AWG	130 mm	7 mm

1. With DALI bus





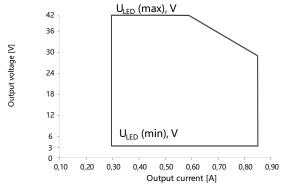


AC Push Function

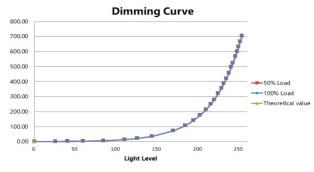
1) Click the button to switch ON/OFF

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%.

Operating window

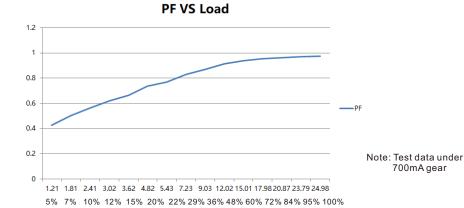




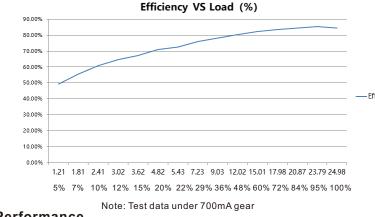


Note: Test data under 700mA gear

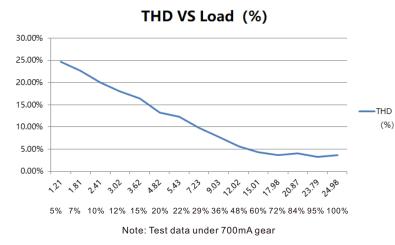




Driver Performance







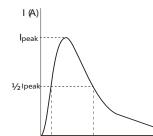
Expected Lifetime

Module Number	Output current	Та	30 °C	40 °C	45 °C •	• 60 °C
SRPY-2305N-25CC300-850	300 – 850 mA	Tc	50 °C	60 °C	70 °C ••	• 90 °C
SRPY-2309N-25CCT300-850) 300 – 850 mA	Lifetime	> 100,000 h	> 80,000 h	> 60,000 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	B10	B13	B16	Max B20	.qua	ntity	of L	ED D C16		per	MCB	D13	D16	D20	D25
-	SRPY-2305N-25CC300-850	5.94A	64µs	40	52	64	80	100	46	60	74	93	116	53	69	85	106	133
-	SRPY-2309N-25CCT300-850	5.94A	64µs	40	52	64	80	100	46	60	74	93	116	53	69	85	106	133



Δt

Note:

1. Those MCB parameters are based on ABB S200 series circuit breakers.

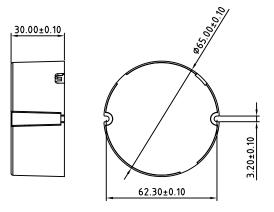
2.For different brands and models of miniature circuit breakers, the quantity of drivers will have difference.

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

Product Dimension



T (ms)

Packaging

1 PCS/Box	51 PCS/Carton
86x86x45mm	380x270x280mm

Update log

Date	Version	Update content	Update by
2023-8-3	V1.2	Update PF/THD/Eff/MCB Load/ Lifetime	Romeo

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