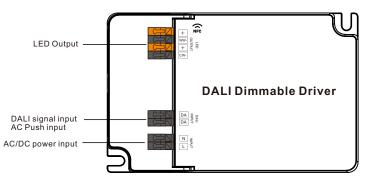
# 65W DALI DT8 NFC Enabled LED Driver(Constant Current)

# Important: Read All Instructions Prior to Installation

# **Function introduction**



# **Product Data**

	LED Channel	2
		۷۲
	DC Voltage	6-54V
	Current	500-1500mA via NFC setting; Min.current gear lower to 0.1mA
Output	Current Accuracy	±3%( ±1%@Certain full load) @ full load
	Rated Power	Max. 65W
	Voltage Range	200-240VAC/176-280VDC
	Frequency Range	0/50/60Hz
	Power Factor (Typ.)	> 0.98 @ 230VAC Full load
	Total Harmonic Distortion	THD $\leq$ 6% (@ full load / 230VAC)
	Efficiency (Typ.)	> 90% @ 230VAC full load
Input	AC Current (Typ.)	0.35A @ 230VAC
	Inrush Current (Typ.)	Max. 9.68A at 230VAC; 70µs 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°C ~ +45°C
<b>F</b>	Max. Case Temp.	TC=85℃ (Ta="45℃")
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
	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
	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	123.9x78.8x30mm (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 65W
- 500-1500mA current selectable via NFC program tool. Min.current gear lower to 0.1mA
- DALI Address/Group/Scene setting via NFC program tool.
- $\bullet$  Class  ${\rm I\!I}$  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 DT6 commands
- Error report function
- 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.

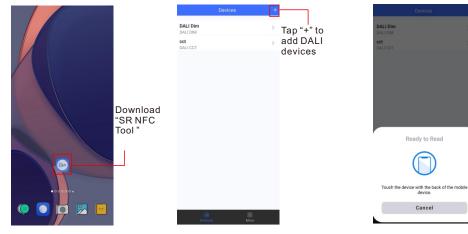
With NFC Programming devices

#### 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	guration
Cancel	Save

DALI DIM DALI DIM cct DALI CCT	Devices	
DALI Dim 2 DALI DIM	DALI Dim 2	

#### Step 3: Unlock device, enter parameters configuring page.

< DALI	Dim 2 🔒		<	DALI Dim 2	ර		<	Options
Device Type	DALI DIM	Locked	Device Type		DALI DIM	Unlock it	•	Max level Min level
Product Id	0x01000001	Looked	Product Id	Ox0	1000001	OTHOCK IL		
larget current	300.0mA		Options		>		0	Power on level System failure level
			Target current	30	0.0mA >		0	Short address Groups
							0	Fade time Fade rate
							۲	Dimming curve
							•	Scenes
							۲	Target current
							۲	Low side current error comper
Set All At	tributes		Se	et All Attributes				Unselect All Sele

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.

e level MASK > s 0 > s 0 > Set All Attributes System failure level Save Cancel Fade time	DALI	Dim 2 🖬
System failure lovel     Sove       System failure lovel     Sove       System failure lovel     MASK 2       System failure lovel     MASK 2       System failure lovel     MASK 2       System failure lovel     Sove       Sove     Sove       System failure lovel     Sove	Туре	DALI DIM
Nin level 0.100% > 100.0% > 0.100% > el evel MASK > el evel MASK > e level MASK > a 0 > s 0 > b Extended fude > 358stsp:/s > vel Logarithmic > > Set All Attributes          State fune Extended fude > 358stsp:/s > bimming curve Logarithmic > > Set All Attributes       Dimming curve Logarithmic > Scenes > Dimming curve Logarithmic > Scenes 0.100 > Cancol Fade time Save 0.100 > conspensation State fullue level Save 0.100 > conspensation 15 (2.8s) 15 1		0×01000001
0.100% > MASK > MASK > Nevel MASK > 0 > 0 > 2 > Extended fade > 3358teps/s > e Logarithmic > 3358teps/s > e Logarithmic > 300.0mA > 2 > et All Attributes          o       Target current arror 0.100 > 0       0.100 > 0         o       5 (2.5e)       - +       7 (44.7ster 10)         co       15       1		>
0.100%.5       el     MASK.5       el wel     MASK.5       s     0.5       s     0.5       State time     Extended fade.5       Statestar/s     5       vel     Logarithmic.5       Statestar/s     5       Statestar/s     7       Statestar/s     7       Statestar/s     7       Statestar/s     7       Statestar/s     7       Statestar/s <td></td> <td>100.0% &gt;</td>		100.0% >
e level MASK 2 s 0 2 Set All Attributes System failure level Save System failure level Save Syste	evel	
e level MASK > s 0 2 s 0 2 Set All Attributes Spritem failure level Save Spritem failure level Save Spritem failure level Save Set All Attributes Set All Attributes	r on level	MASK >
Fade rate     358steps//s       Extended fade >       358steps/s       ve     Logarithmic >       Secres     >       Secres     >       Logarithmic >       Secres     >       Secres     >       Secres     0.100 >       Secres     0.100 >       Set All Attributes     Secres       System failure level     Save       Set All Attributes     Save       Set All Attributes     Save       Set All Attributes     Save       Secres     1	tem failure level	
Extended fade > 358stepu/s > ve Logarithmic > Set All Attributes System failure level Save System failure level Save 5 (2.8s) ve time Save 5 (44.7stepu/s) 1	address	0 >
358steps//s >     Scenes     >       ve     Logarithmic >     >       >     Concel     Target current     300.0mA >       Low side current error     0.100 >       Set All Attributes     Set All Attributes       System failure level     Save     Cancel       Fade time     Save     Cancel       5 (2.8s)     - +     7 (44.7steps/s)       0     15     1	s	>
358step//s >     Scenes     >       ve     Logarithmic >     >       >     Cancel     Target current     300.0mA >       Low side current error     0.100 >       System failure level     Save     Cancel     Fade time       System failure level     Save     Cancel     Fade time       System failure level     Save     Cancel     Fade time       0     15     1	ime	Extended fade >
ve         Logarithmic >           >         >           Set All Attributes         Set All Attributes           System failure level         Save           Cancel         Fade time           Sign - +         7 (44.7steps/s)           0         15           255           ve	ate	358steps/s >
>         Low side current error componsation         0.100 >           Set All Attributes         Set All Attributes         Set All Attributes           System failure level         Save         Cancel         Fade time           Sign - +         7 (44.7steps/n)         -           0         15         1	ing curve	Logarithmic >
Set All Attributes         Cancel         Fade time         Save         Save <th< td=""><td></td><td>&gt;</td></th<>		>
System failure level Save Cancel Fade time Save Cancel Fade rate 5 (2.5a) - + 7 (44.7steps/s) 0 15 1 255 ve		
system 1 minute week 1 2255	Set All A	ttributes
system 1 minute week 1 2255		
ASC) - + 0 15 1 255 we	el System f	ailure level Save
ASC) - + 0 15 1 255 we		
0 15 1 255 ve	(MASK)	- +
255 <b>ve</b>	(MASK)	
255 <b>ve</b>		
ve		255
	g curve	
nic 🔿 Linear	ogarithmic	Linear

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.

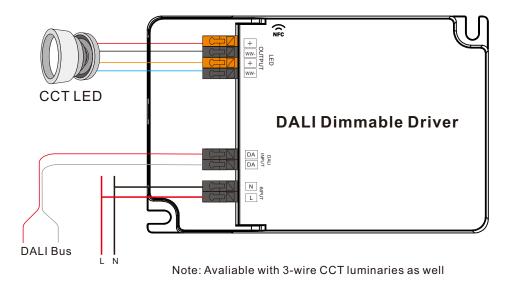
2. Many functions can be configured by NFC. Kindly check your desired functions.

3. All of our DALI drivers are in the best performance within our DALI master/ gateway.

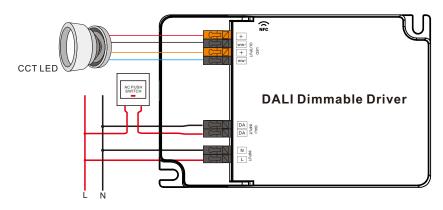
### Wiring Diagram

1. With DALI bus

1) With single color LED luminarie



2. With PUSH dimmer



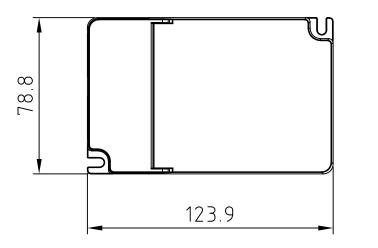
Note: Avaliable with 3-wire CCT luminaries as well

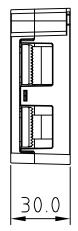
# **AC Push Function**

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%.

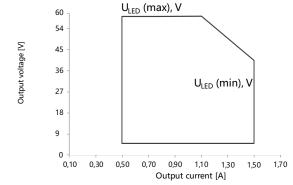
# **Product Dimension**

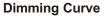


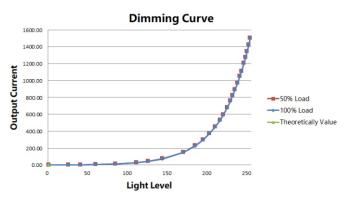


### **Operating window**

### **Driver Performance**



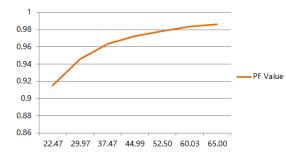




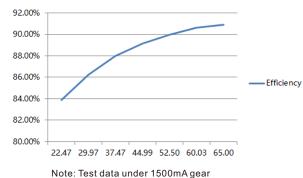
Note: Test data under 1500mA gear

### **Driver Performance**

**Typical Power Factor** 

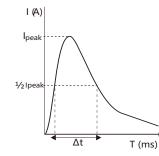


Note: Test data under 1500mA gear



### **MCB Load Quantity**

Module Number	lpeak	Twidth				Max	.qua	ntity	ofL	ED D	river	per	мсв				
			B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
SRP-2305N-65CC500-1500	9.68A	70µs	15	20	24	30	38	20	26	32	40	50	22	29	36	45	57
SRP-2309N-65CCT500-1500	9.68A	70µs	15	20	24	30	38	20	26	32	40	50	22	29	36	45	57



#### 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

#### Update log

[	Date	Version	Update content	Update by
	2022-10-26	V1.1	Parameter modification	Romeo

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

# **Typical Efficiency**