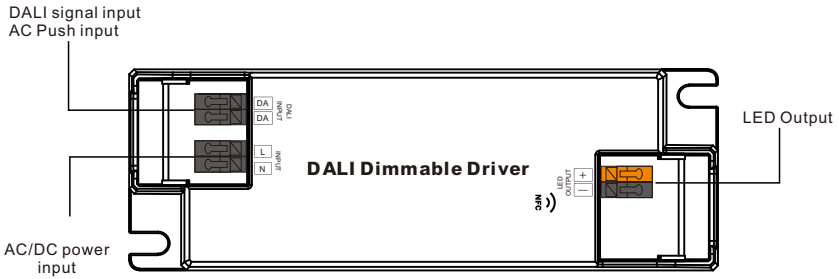
25W DALI DT6 NFC Enabled LED Driver(Constant Current)

Important: *Read All Instructions Prior to Installation*

Function introduction



Product Data

Output	LED Channel	1
	DC Voltage	6-54V
	Current	250-700mA via NFC setting; Min.current gear lower to 0.1mA
	Current Accuracy	±3%(±1%@Certain full load) @ full load
	Rated Power	Max. 25W
Input	Voltage Range	200-240VAC/200-240VDC
	Absolute Voltage Range	176-264VAC/176-280VDC
	Frequency Range	0/50/60Hz
	Power Factor (Typ.)	> 0.97 @ 230VAC Full load
	Total Harmonic Distortion	THD ≤ 9% (@ full load / 230VAC)
	Efficiency (Typ.)	> 85% @ 230VAC full load
	AC Current (Typ.)	0.2A @ 230VAC
	Inrush Current (Typ.)	Max. 5.64A at 230VAC; 72μs duration
	Leakage Current	< 5mA /230VAC
	Standby Power Consumption	< 0.5W
	Anti Surge	L-N:2KV
Control	Dimming Interface	DALI Device Type 6 (DALI consumption < 2mA)/ AC Push
	Dimming Range	0.01%-100%@ Max current
	Dimming Method	Amplitude/CCR dimming
	Dimming Curve	Linear/ Logarithmic optional
Protection	Short Circuit	Yes, recovers automatically after fault condition is removed
	Over Current	Yes, recovers automatically after fault condition is removed
	Over Temperature	Yes, recovers automatically after temperature drop
Environment	Working Temp.	-25℃ ~ +45℃
	Max. Case Temp.	TC=85℃ (Ta="45℃")
	Working Humidity	10% ~ 95% RH non-condensing
	Storage Temp. & Humidity	-40℃ ~ +80℃, 10% ~ 95% RH
Safety & EMC	Safety Standards	EN61347-1, EN61347-2-13
	Withstand Voltage	I/P-O/P: 3.75KVAC
	Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25℃ / 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
	Dimension	120x41x28mm (L*W*H)
	Warranty	5 Years

- In compliance with IEC 62386-101:2014, IEC 62386-102:2014, IEC 62386-207 Ed2,
- Built-in DALI-2 interface, DALI DT6 device
- Dimmable LED driver. Max. output power 25W
- 250-700mA 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 LED lighting luminaries
- 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 1 channel 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

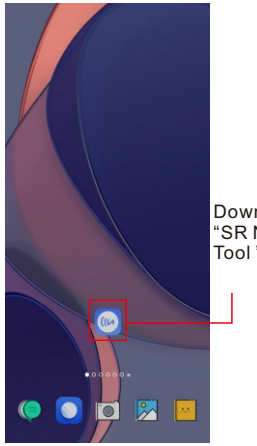
1) Do wiring according to the wiring diagram and power on the DALI system .

2) Recommend setting parameters without power-on the DALI devices .

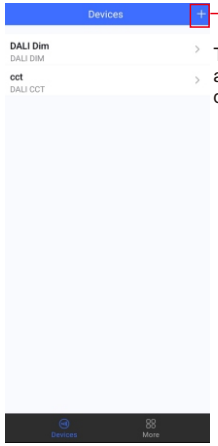
2) Please make sure your mobile phone has NFC function and enable it .

Working with “SR NFC Tool” APP

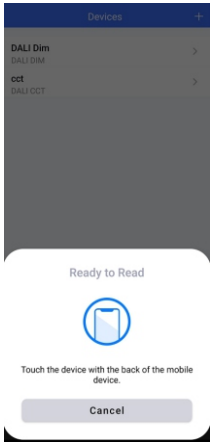
Step 1: Download the APP (searching “SR NFC Tool” from App Store and Google Play) . Then open the APP .



Download “SR NFC Tool ”



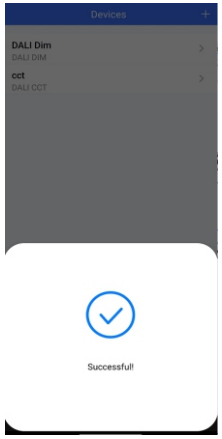
Tap “+” to add DALI devices

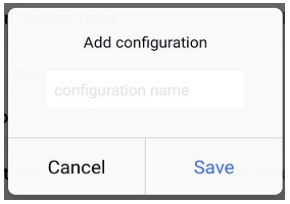


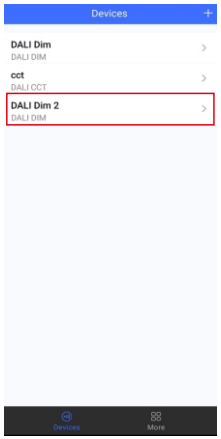
Note: 1. Please Make sure that you have enabled NFC function with your mobile phone/ tablet .

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.

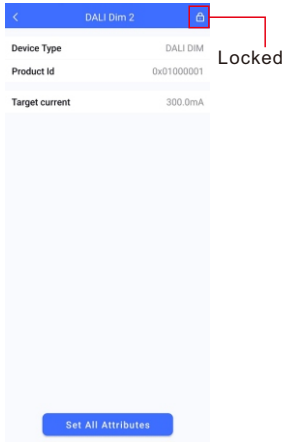
Step 2: Add device, and name it as you wish.



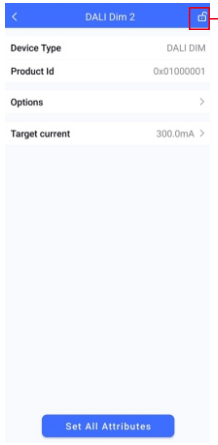




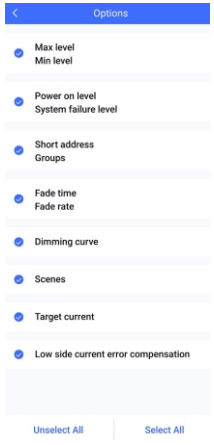
Step 3: Unlock device, enter parameters configuring page.



Locked



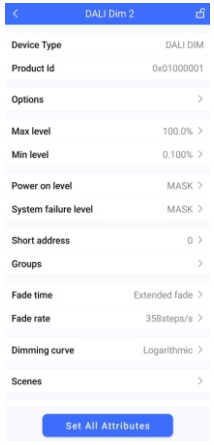
Unlock it

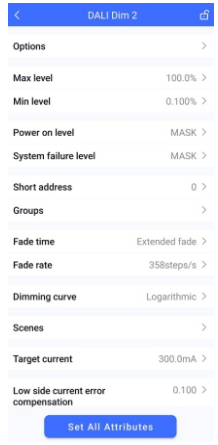


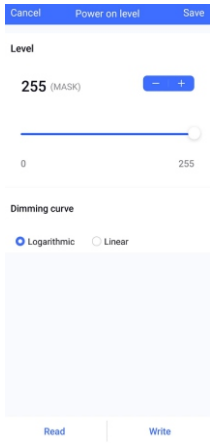
Note: 1. You have to unlock the device then do some settings

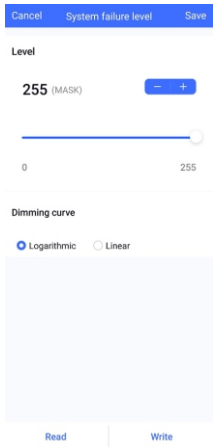
2. Only when the corresponding function is selected, the function interface will be displayed.

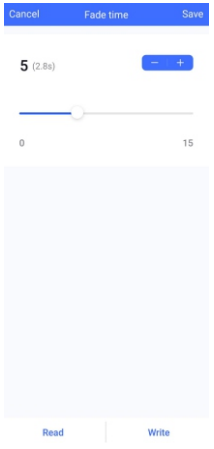
Step 4: Few parameter interface, you can choose the setting based on your requirements.



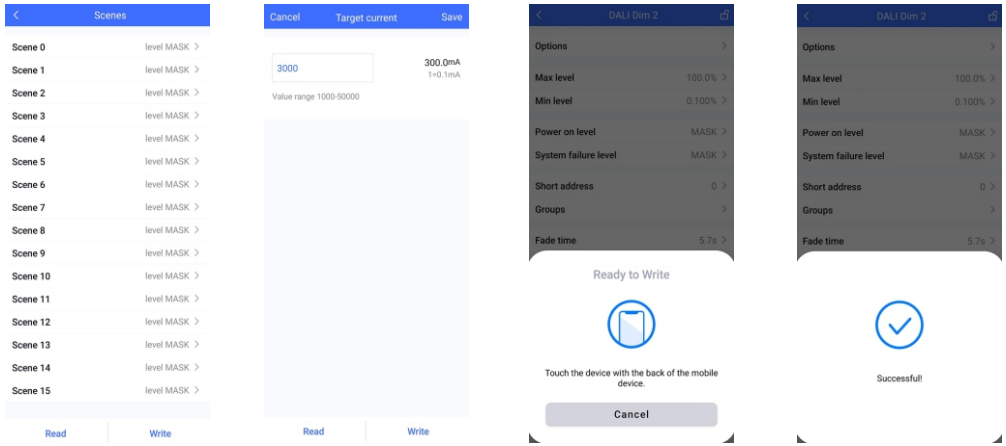








Step 5: After setting, please save the selected configuration via NFC and power on the device.



Tips

1. NFC function doesn't require any power driver.

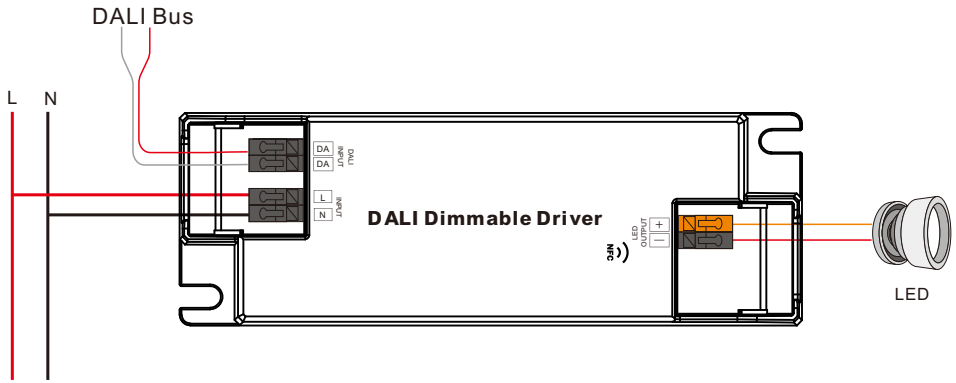
2. Many functions can be configured by NFC. Kindly check your desired functions.

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

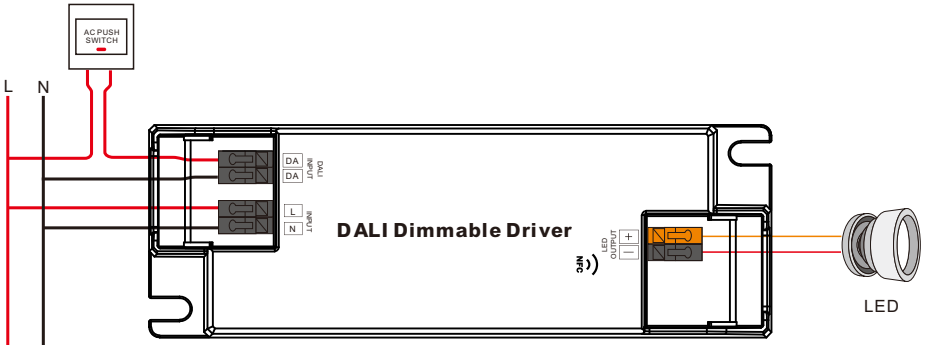
Wiring Diagram

1. With DALI bus

1） With single color LED luminarie



2. With PUSH dimmer

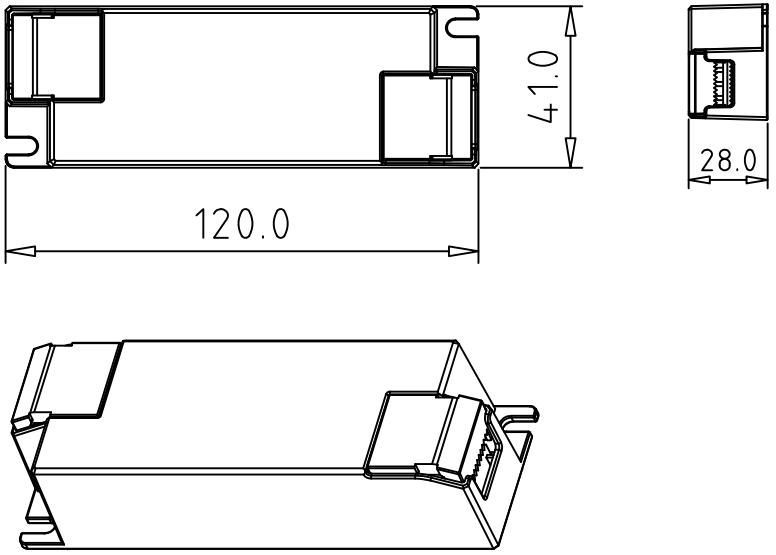


AC Push Function

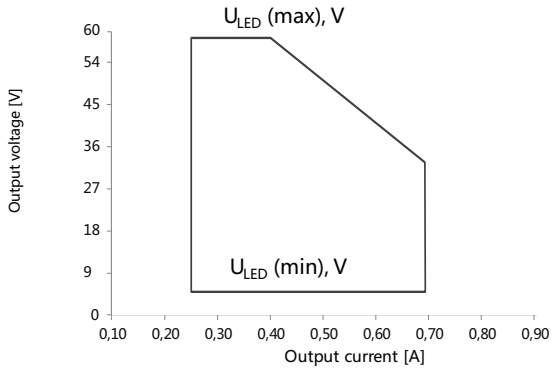
1) Click the button to switch ON/OFF

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%.

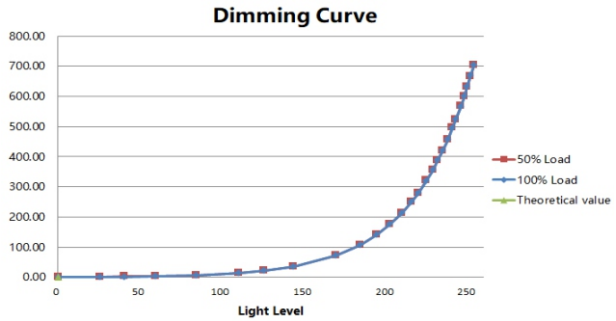
Product Dimension



Operating window

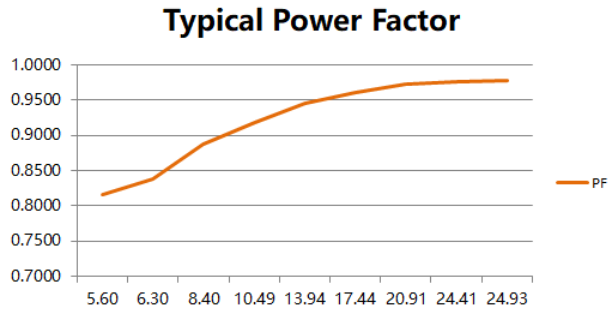


Dimming Curve



Note: Test data under 700mA gear

Driver Performance



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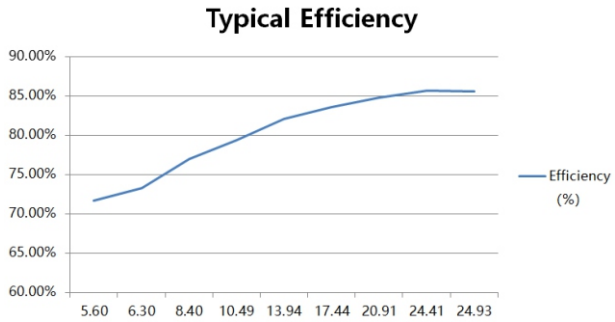
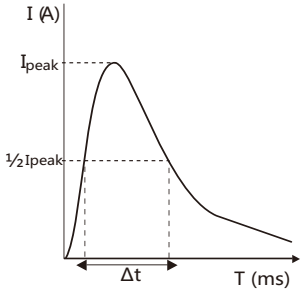
Driver Performance



Note: Test data under 700mA gear

MCB Load Quantity

module number	Ipeak	Twidth	Max.quantity of LED Driver per MCB													
			B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
EV25D-250-700-CC	5.64A	72μs	26	34	42	53	66	35	45	56	70	87	40	52	64	80	100



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
2022-12-12	V1.2	Parameter Update	Romeo

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