

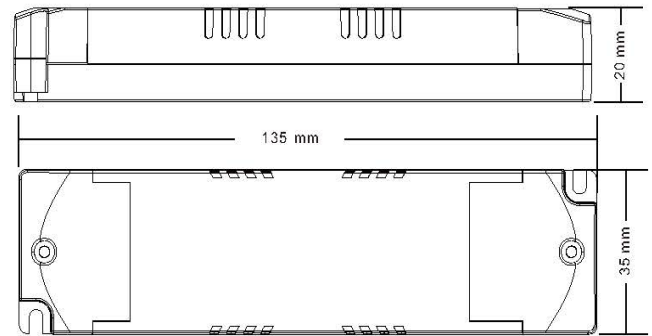
ORL-DALI_NFC-15CC-300MA

ITEM NO. DRIVER - 34809

15W DALI DT6 NFC Enabled LED Driver (Constant Current)



Dimension



Function Introduction



Technical Specification

Output	LED Channel	1
	DC Voltage	6-42V
	Current	100-700mA via NFC setting; Min. current gear lower to 0.1mA
	Current Accuracy	±3% (±1%@Certain full load) @ full load
	Rated Power	Max. 15W
	Output PstLM	<0.02
	Output SVM	< 0.01
Input	Voltage Range	200-240VAC/176-280VDC
	Frequency Range	0/50/60Hz
	Power Factor (Typ.)	> 0.96 @ 230VAC Full load
	Total Harmonic Distortion	THD ≤ 8% (@ full load / 230VAC)
	Efficiency (Typ.)	>80% @ 230VAC full load
	AC Current (Typ.)	0.1A @ 230VAC
	Inrush Current (Typ.)	Max. 3.96A at 230VAC; 90μs duration
	Leakage Current	< 5mA /230VAC
	Standby Power Consumption	<0.5W
	Anti Surge	L-N:2KV

ORL-DALI_NFC-15CC-300MA

Technical Specification Continued

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°C ~ +45°C
	Max. Case Temp.	TC=85°C (Ta="45°C")
	Working Humidity	10% ~ 95% RH non-condensing
	Storage Temp. Humidity	-40°C ~ +80°C, 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°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
	Dimension	135x35x20mm (L*W*H)

- 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 15W
- 100-700mA 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

Safety & Warnings

- DO NOT install with power applied to the device.
- DO NOT expose the device to moisture.

ORL-DALI_NFC-15CC-300MA

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.

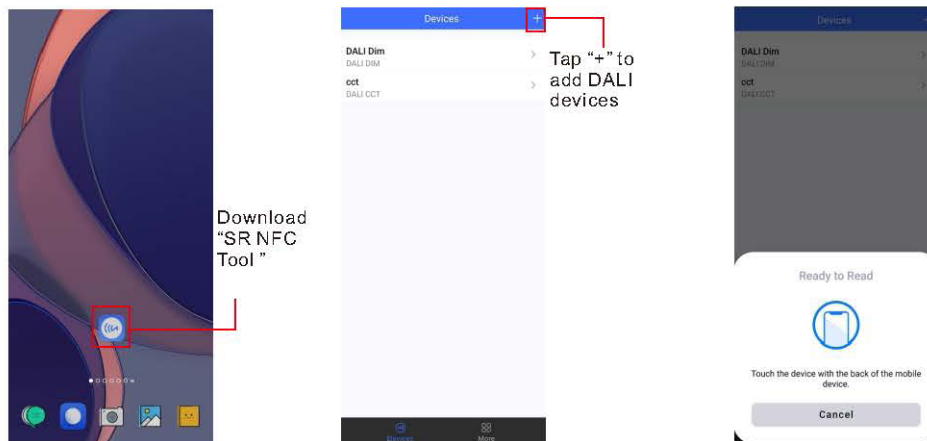
With NFC Programming devices

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 .
3. 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.

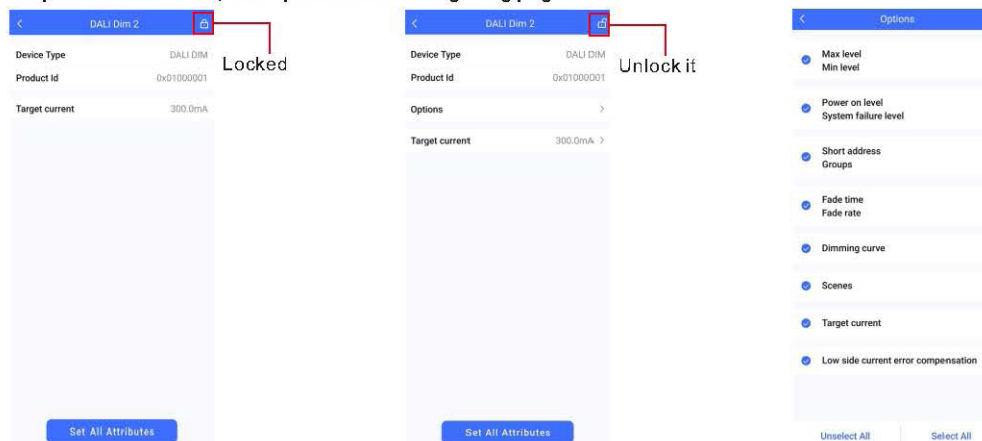
Step 2: Add device, and name it as you wish.



ORL-DALI_NFC-15CC-300MA

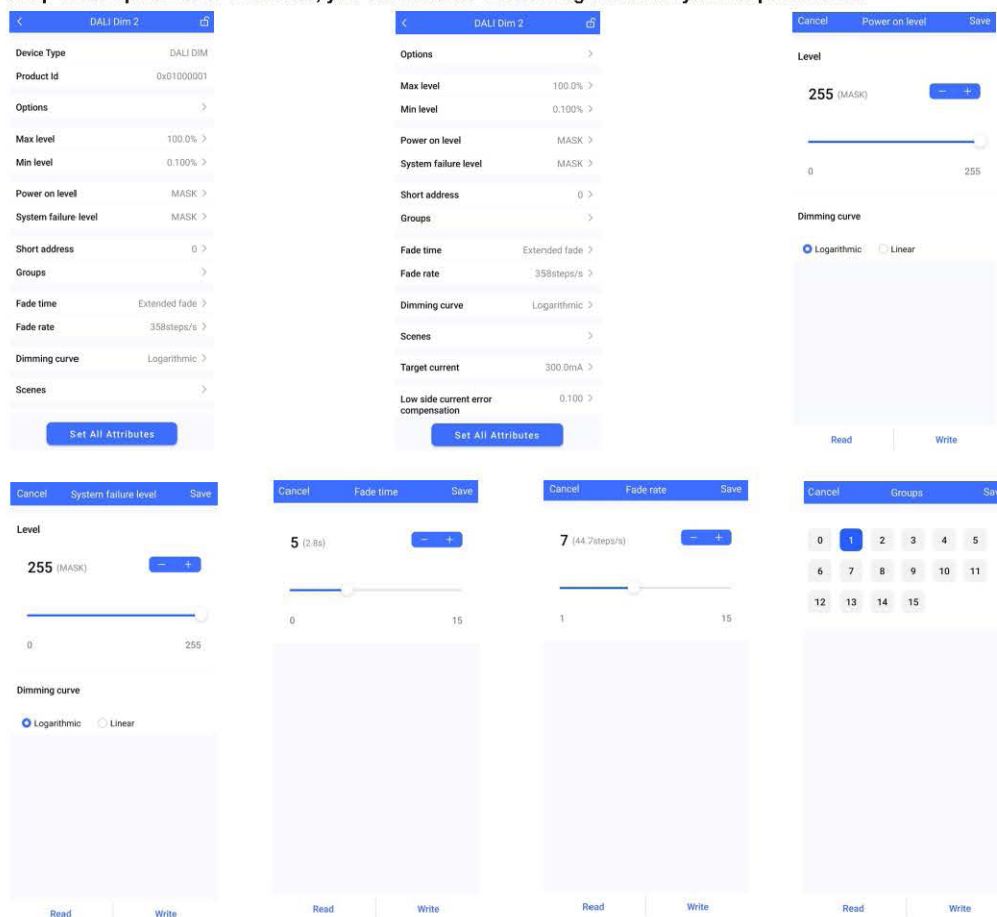
Working with "SR NFC Tool" APP Continued

Step 3: Unlock device, enter parameters configuring page.



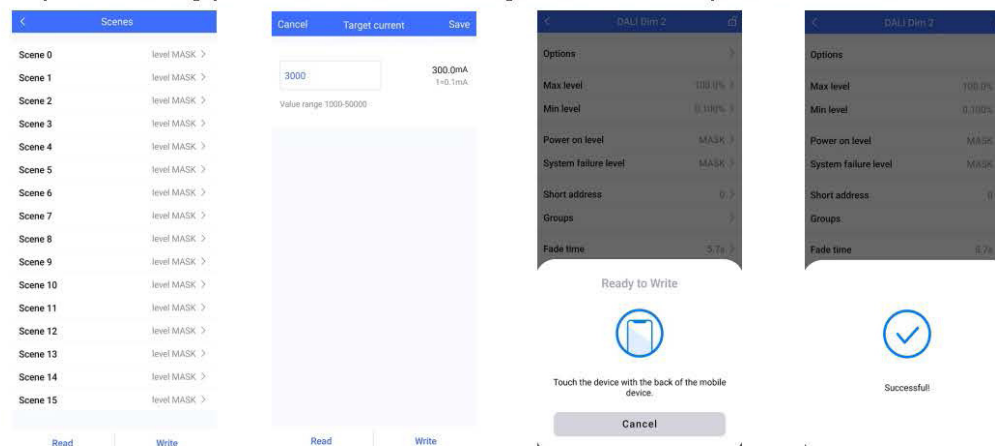
Note: 1. You have to unlock the device then do some settings
2. Only when the corresponding function is selected, the function interface will be displayed.

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



Working with "SR NFC Tool" APP Continued

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



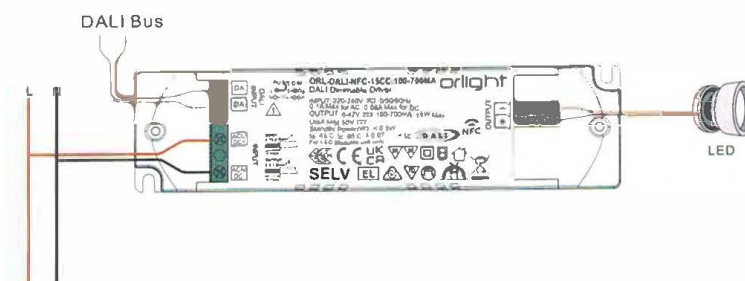
Tips:

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

With single color LED luminarie



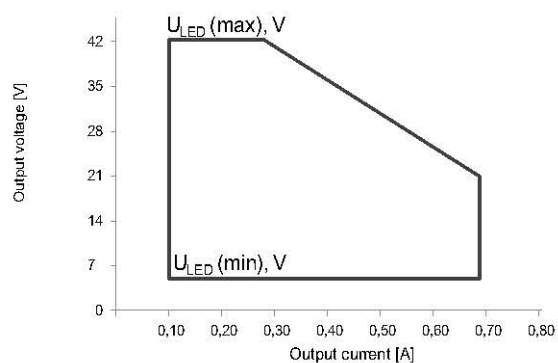
2. With PUSH dimmer



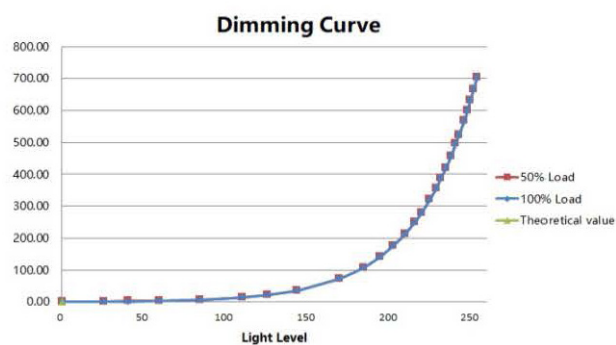
AC Push Function

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%.

Operating window

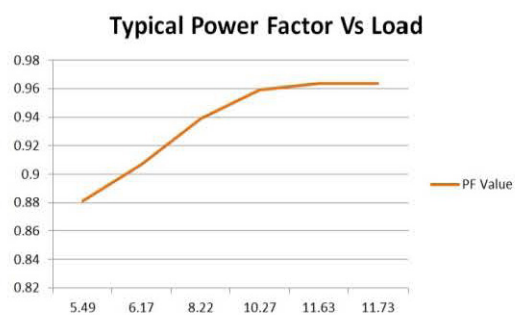


Dimming Curve



Note: Test data under 700mA gear

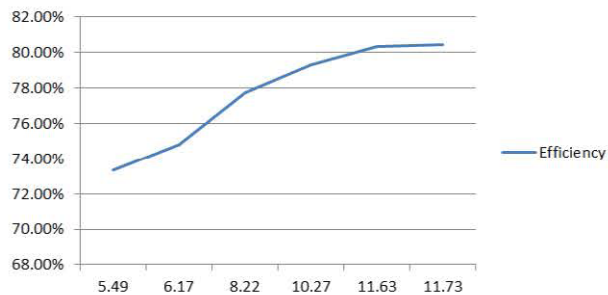
Driver Performance



Note: Test data under 700mA gear

Driver Performance Continued

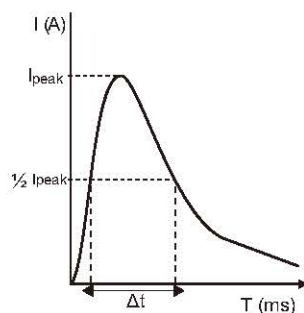
Typical Efficiency Vs Load



Note: Test data under 700mA gear

MCB Load Quantity

Module Number	I _{peak}	T _{width}	Max.quantity of LED Driver per MCB															
			B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25	
SRP-2305N-15CC100-700	3.96A	90μs	37	49	60	75	94	63	81	100	125	156	80	104	128	160	200	
SRP-2309N-15CCT100-700	3.96A	90μs	37	49	60	75	94	63	81	100	125	156	80	104	128	160	200	



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
2022-9-8	V1.0	Initial Version	Romeo

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