SUNRICHER DT8 NFC Enabled LED Driver User Guide

Contents

SUNRICHER

SUNRICHER DT8 NFC Enabled LED Driver

Specifications

- **LED Channel**: 2
- **DC Voltage**: DC
- **Output Current**: Constant Current
- **Current Accuracy:** N/A
- **Rated Power:** 40W
- **Input Voltage Range:** AC
- **Frequency Range:** N/A
- **Power Factor (Typ.):** N/A
- **Total Harmonic Distortion:** N/A
- **Efficiency (Typ.):** N/A
- **Working Temperature:** -25°C to +60°C
- **Max. Case Temperature:** N/A
- **Working Humidity:** 10% to 95% RH non-condensing
- **Safety Standards:** EN61347-1, EN61347-2-13
- **Warranty:** 5 Years

Product Usage Instructions

Operation with DALI Master

1. DALI Address Assignment: DALI addresses for 2 channel output are assigned by the DALI Master controller automatically. Refer to user manuals of compatible DALI Masters for specific operations.

Operation with NFC Programming Devices

1. **Wiring and Power On:**

- Wire according to the wiring diagram and power on the DALI system.
- Recommend setting parameters without powering on the DALI devices.

2. **NFC Functionality:**
   - Ensure your mobile phone has NFC function enabled.
   - Download the SR NFC Tool App from App Store or Google Play.
   - **Note:** Enable NFC function on your mobile device and ensure the NFC position is matched.
   - Add device, name it as desired, unlock device, and enter parameters configuring page
   - **Note:** Unlock the device before making settings.
   - Select desired settings and save the configuration via NFC, then power on the device.

CLO Function Instruction

1. Open the APP and find the CLO function.
2. Enable CLO function, set time and level as desired with graphical display.

FAQ

1. **Q: What if I can't download the SR NFC Tool App?**
   A: If you encounter difficulties downloading the app, please contact us for assistance.
2. **Q: Do I need to power on the device before making settings with NFC?**
   A: It is recommended to set parameters without powering on the DALI devices when using NFC for configuration.

40W DALI DT8 NFC Enabled LED Driver(Constant Current)

Important: Read All Instructions Prior to Installation

Function introduction

DALI signal input
AC Push input

Product Data

Output	LED Channel	2
	DC Voltage	10-54V
	Current	500-1050mA via NFC setting; Min. current gear lower to 0.1mA
	Current Accuracy	±3%@ full load
	Rated Power	Max. 40W
Input	Voltage Range	120-277VAC
	Frequency Range	50/60Hz
	Power Factor (Typ.)	> 0.95 @ 230VAC Full load
	Total Harmonic Distortion	THD ≤ 10% (@ full load / 230VAC)
	Efficiency (Typ.)	87% @ 230VAC full load
	AC Current (Typ.)	0.3A @ 230VAC
	Inrush Current (Typ.)	Max. 9.38A at 230VAC; 96μs duration
	Leakage Current	< 5mA /230VAC
	Standby Power Consumption	0.5W
	Anti Surge	L-N:2.5KV
Control	Dimming Interface	DALI Device Type 8 (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℃ ~ +60℃
	Max. Case Temp.	TC=90℃
	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℃ ambient temperature
	Dimension	245x30x21mm (L*W*H)
	Warranty	5 Years

- 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 with linear metal housing. Max. output power 40W
- 500-1050mA 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, isolated design
- High power factor and efficiency
- To switch and dim LED lighting luminaries, enable tunable white control
- Amplitude/CCR dimming, smooth and deep dimming
- Compatible with universal DALI masters that support DT8 commands
- DALI-251/252/253 Enabled
- 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

DALI Address

1. **DALI** address for 2 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

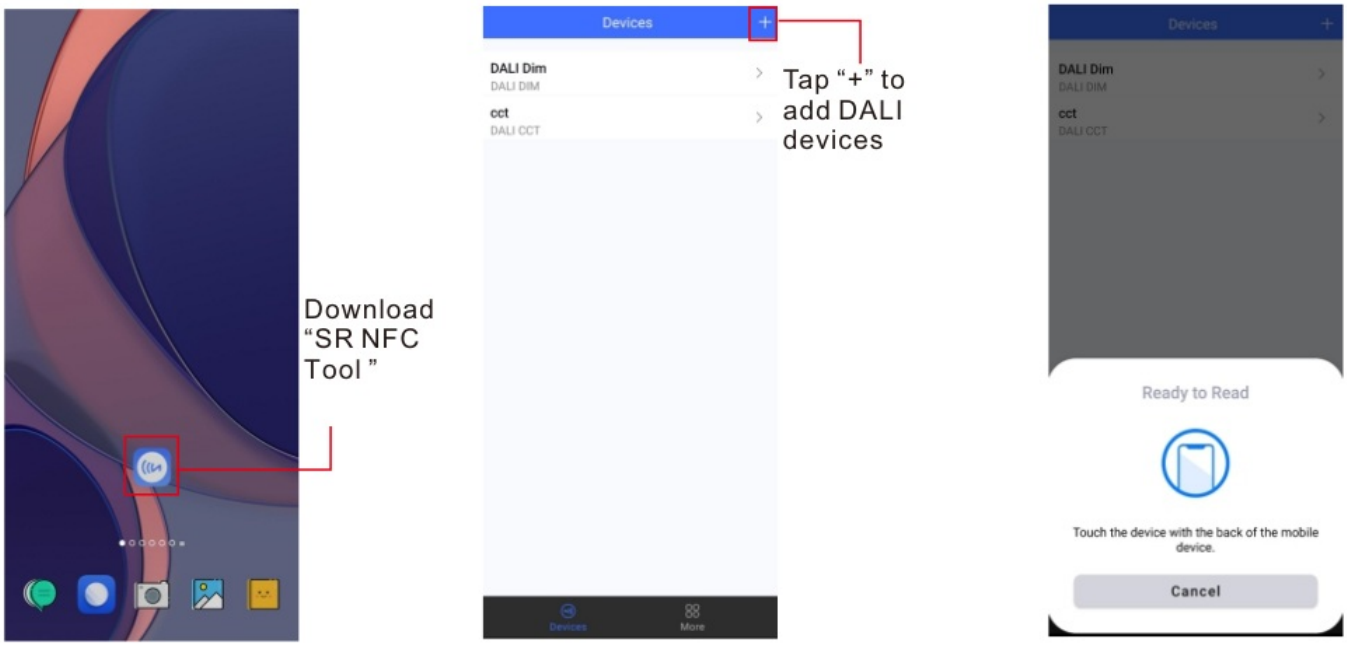
   Note

   1. Do wiring according to the wiring diagram and power on the DALI system .
   2. Recommend setting parameters without power-on the DALI devices .

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

Working with "SR NFC Tool" APP

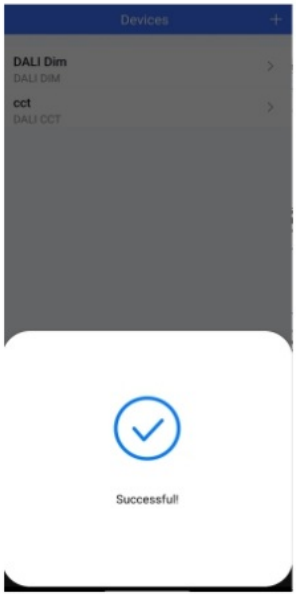
Step 1: Download the APP (searching "SR NFC Tool" from App Store and Google Play) Then open the APP .

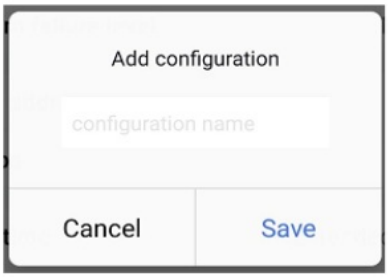


Note:

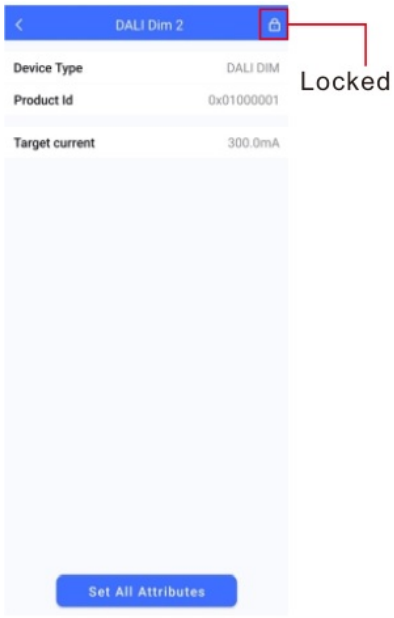
1. Please Make sure that you have enabled NFC function with your mobile phone/ tablet .
2. Please Make sure that the "NFC position" is matched.
3. Please do not power on the device before setting.
4. If you can't download "SR NFC Tool". Please contact with us.

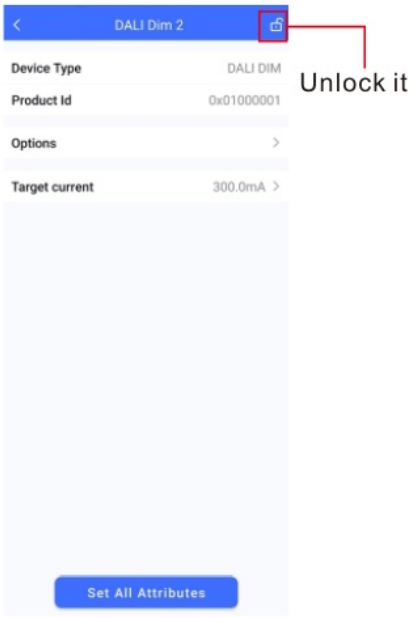
Step 2: Add device, and name it as you wish.

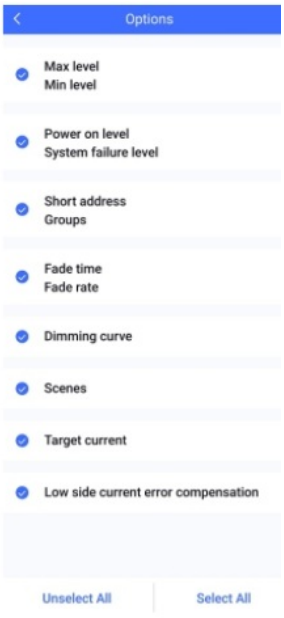




Step 3: Unlock device, enter parameters configuring page.



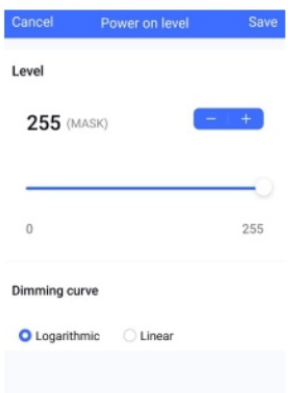


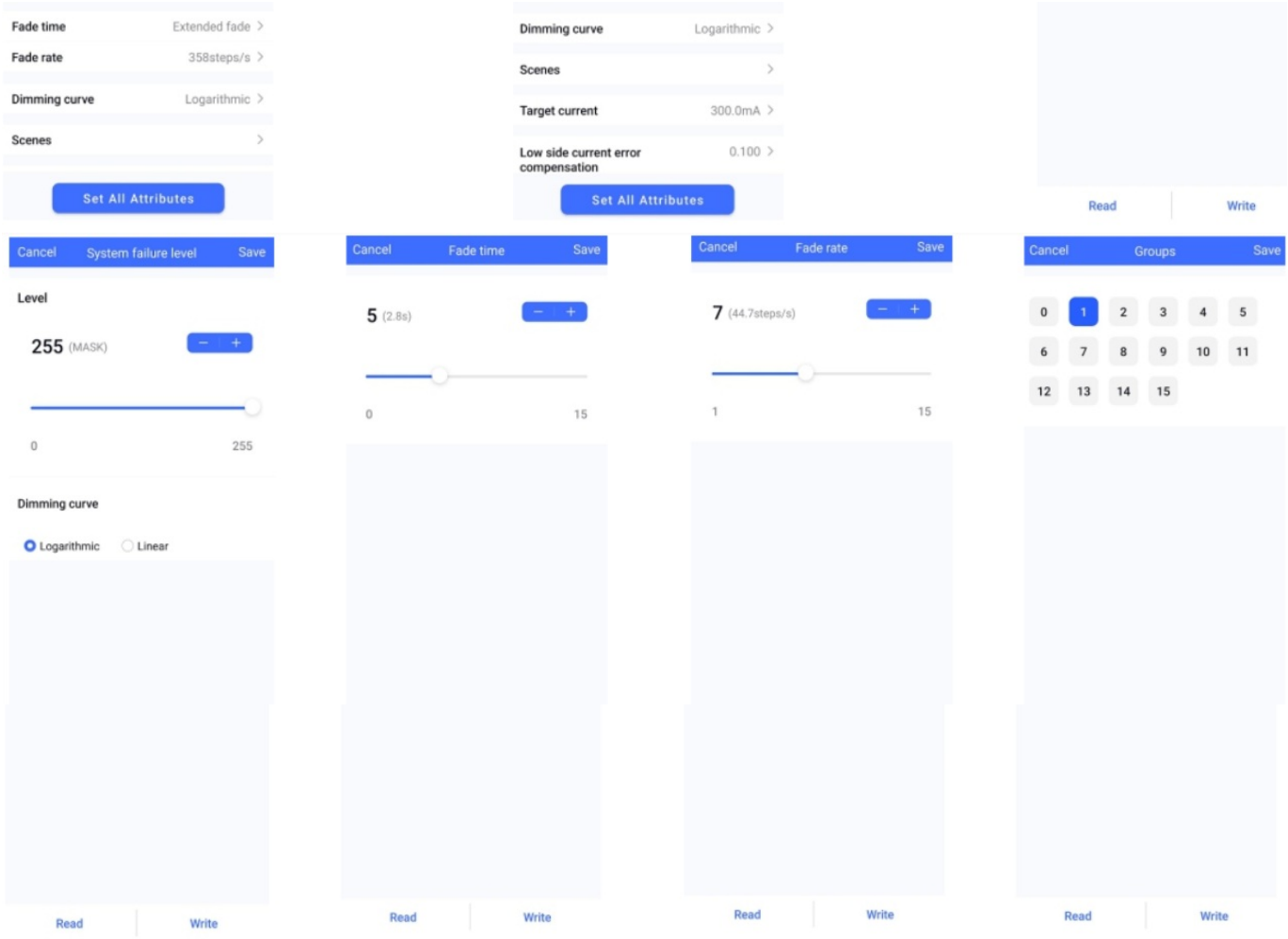


Note:

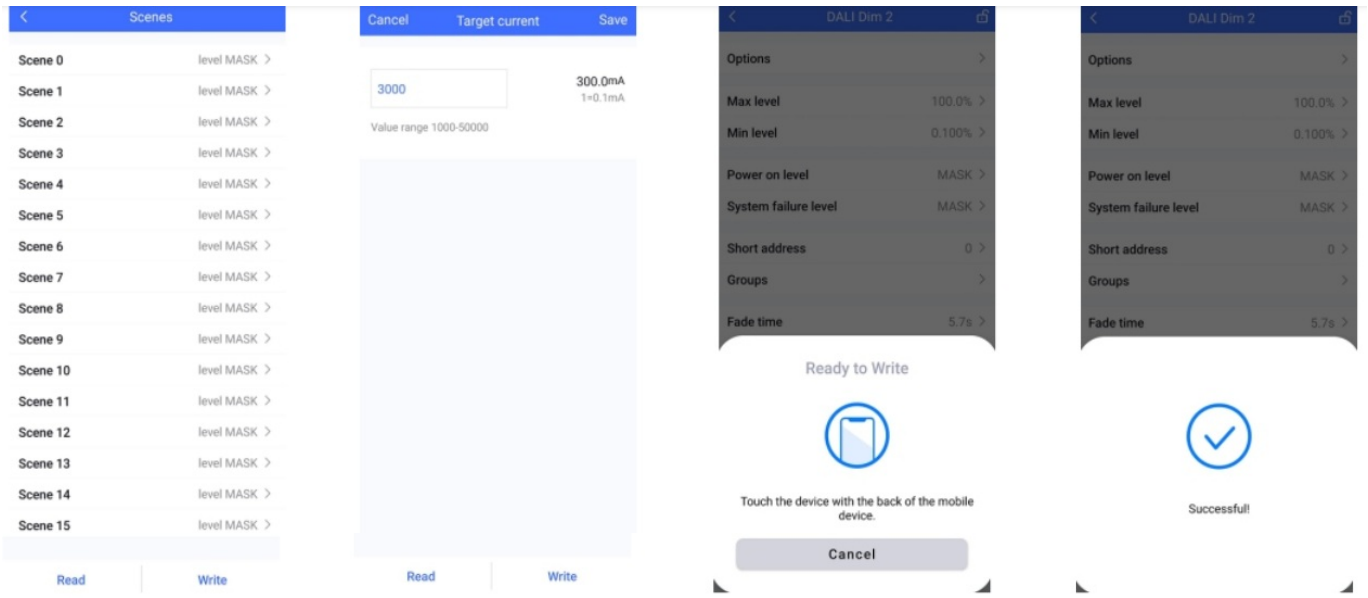
1. You have to unlock the device then do some settings
2. Only when the corresponding function is selected, the function interface will be displayed.

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





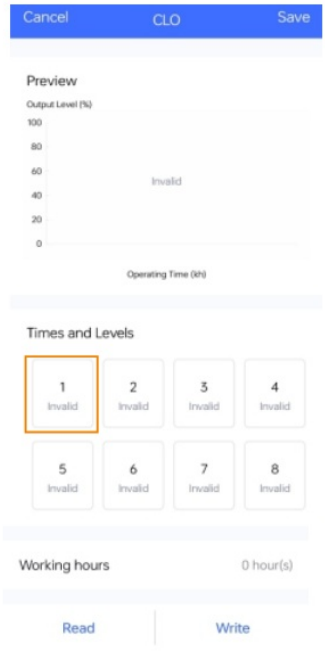
Step 5: After setting, please save the selected configuration via NFC and power on the device.

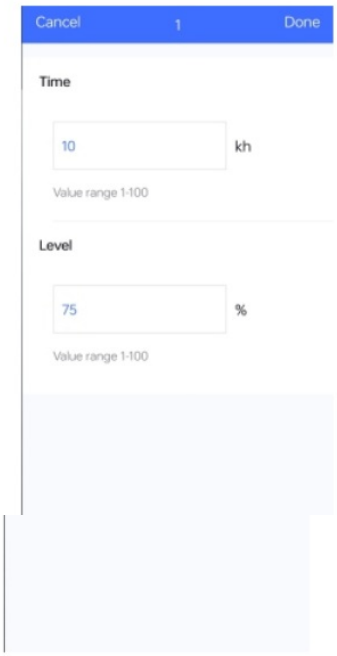


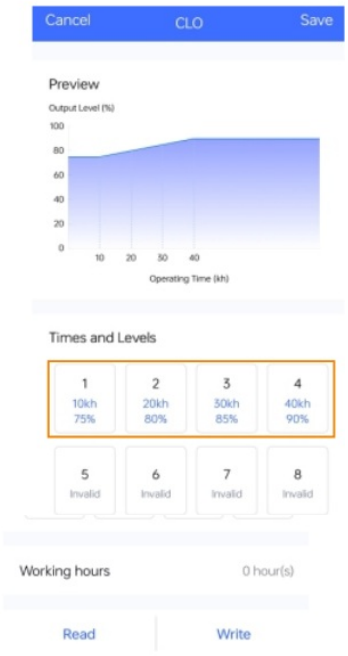
Tips

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.

Enter CLO Setting homepage





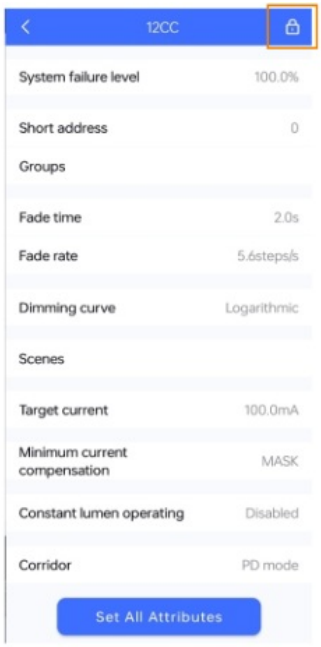


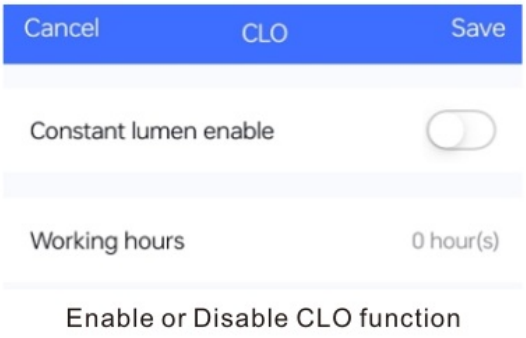
- Enable CLO function
- Click “1″,and set its time and level
- Click “1″,and set its time and level

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

CLO FUNCTION INSTRUCTION

1. Open APP, and Find the CLO function



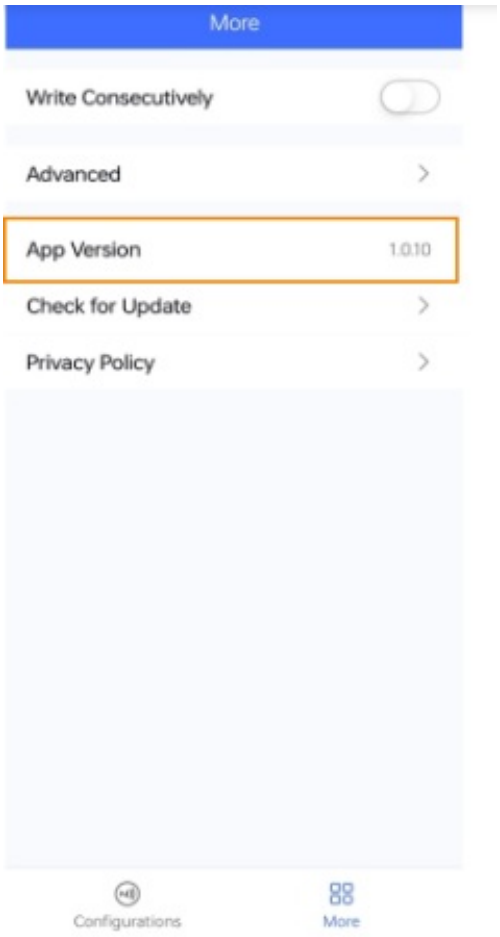


Enable or Disable CLO function

- Read From the NFC Driver
- Unlock it, and Click here to enter CLO settings

- Enable or Disable CLO function

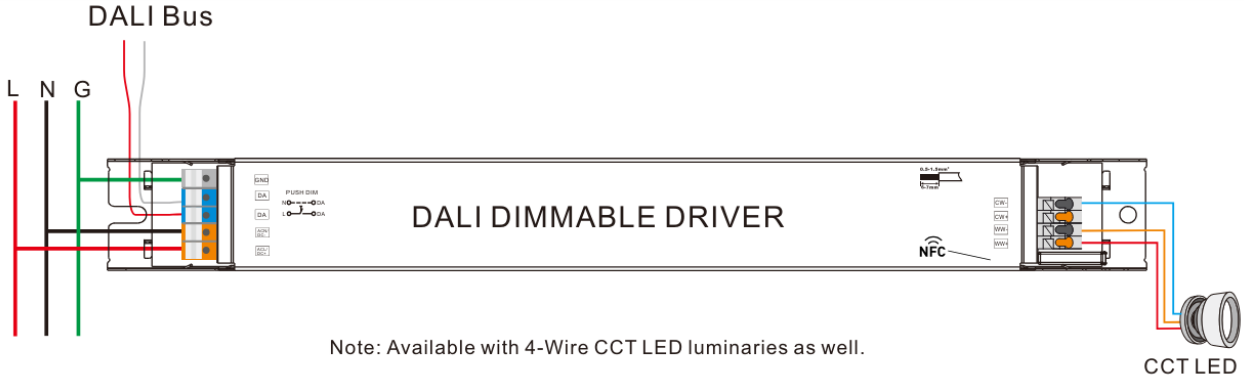
Additional Remarks



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.

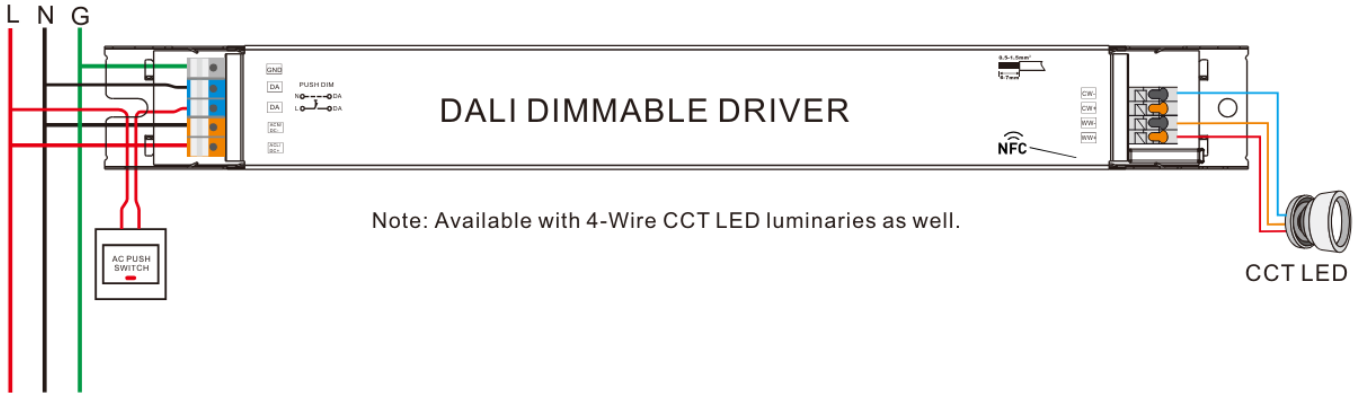
Wiring Diagram

1. With DALI bus
    1. With CCT LED luminaire



Note: Available with 4-Wire CCT LED luminaries as well.

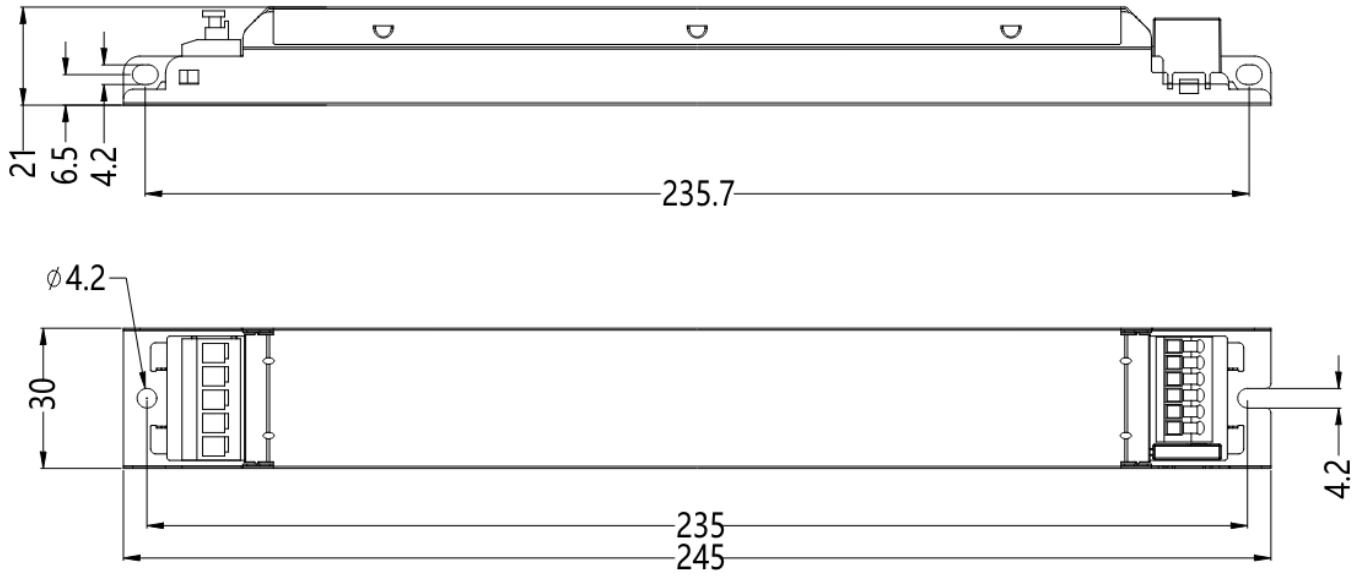
    2. With PUSH dimmer



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



Documents / Resources

	SUNRICHER DT8 NFC Enabled LED Driver [pdf] User Guide DT8, DT8 NFC Enabled LED Driver, NFC Enabled LED Driver, Enabled LED Driver, LED Driver, Driver

References

- **User Manual**