50W DALI LED Driver(DT8)
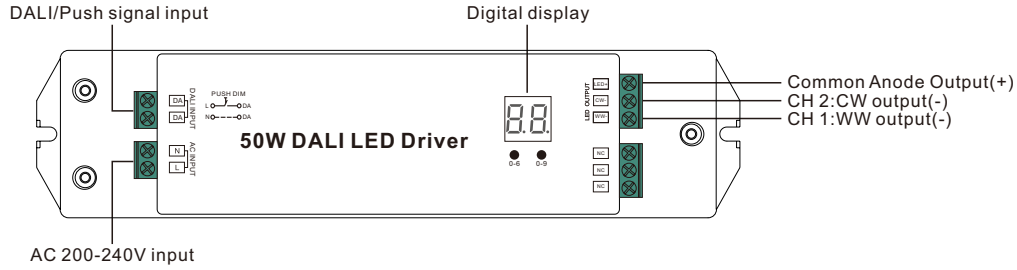
ICE CE RoHS COMPLIANT FC DALI SELV [symbols]

I B L

Important: Read All Instructions Prior to Installation

Function introduction

DALI/Push signal input

Digital display

Common Anode Output(+)
CH 2:CW output(-)
CH 1:WW output(-)

50W DALI LED Driver

AC 200-240V input

Product Data

Output	DC Voltage	12V DC	24V DC
	Max. Current	Max. 4.16A/ch, ch1+ch2=4.16A	Max. 2.08A/ch, ch1+ch2=2.08A
	Rated Power	max. 50W	
Input	Voltage Range	200-240V AC	
	Frequency	50/60Hz	
	Power Factor (Typ.)	> 0.9	
	Efficiency (Typ.)	85% @ 230VAC	88% @ 230VAC
	Input Current	0.27A @ 230VAC	
	Inrush Current (Typ.)	COLD START Max. 2A @ 230VAC	
Control	Dimming Interface	DALI DT8 (DALI consumption < 2mA)/PUSH	
	Dimming Range	0.1%-100%	
	Dimming Method	Pulse Width Modulation	
	Dimming Curve	Logarithmic	
Protection	Over Current	Yes, auto recovery after fault removed	
	Over Temperature	Yes, auto recovery after fault removed	
Environment	Working Temp.	-20 ~ +45	
	Max. Case Temp.	85℃ (Ta="45℃")	
	Working Humidity	10% ~ 95% RH non-condensing	
	Storage Temp. & Humidity	-40℃ ~ +80℃, 10% ~ 95% RH	

Safety&EMC	Safety Standards	ENEC EN61347-1, EN61347-2-13 approved
	Withstand Voltage	I/P-O/P: 3.75KVAC
	EMC Emission	EN55015, EN61000-3-2, EN61000-3-3
	EMC Immunity	EN61547, EN61000-4-2,3,4,5,6,8,11, surge immunity Line-Line 1KV
Others	MTBF	190100H, MIL-HDBK-217F @ 230VAC full load and 25 ambient temperature
	Dimension	210*50*32mm (L*W*H)

- DALI DT8 Dimmable LED driver for tunable white
- 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
- 2 channels constant voltage output, total output power up to 50W
- Class power supply, full isolated plastic case
- High power factor and efficiency
- DALI DT8 device to control Warm White and Cool White output via a single DALI address
- Color temperature adjustment according to DALI specifications of Device Type 8, Color Type Tc.
- Compatible with universal DALI masters that support DT8 commands
- Error report function
- IP20 rating, suitable for indoor LED lighting applications
- 5 years warranty

Safety & Warnings

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

Operation

1.Set DALI Address Manually Via Buttons

1.1 Press and hold down any of the two buttons until numeric digital display flashes, then release the button.

1.2 Click any of the two buttons once to select a digit, click again to change the digit until the desired DALI address appears. Click first button to set "tens" position and second button to set "units" position. The address can be set from 00~63.

1.3 Then press and hold down any of the 2 buttons until the numeric digital display stops flashing to confirm the setting.

Note: DALI address can be manually assigned from 00-63-FF, by factory defaults, no DALI address is assigned for the driver, and the display shows *FF* **. Setting DALI address as** *FF* **will reset the dimmer to factory defaults.**

FF **Mode: to set the driver to** *FF* **mode, please set the DALI address above 63 or below 00, which will enable the display to show** *FF* **, then press and hold down any of the two buttons until display stops flashing to confirm the setting.**

2. DALI Address Assigned by DALI Masters

2.1 DALI address can also be assigned by DALI Master controller automatically, please refer to user manuals of compatible DALI Masters for specific operations.

Note: The digital display will show *AU* **when the DALI master is assigning addresses.**

3. Set DALI Address Quantity

0-6   0-9

3.1 Press and hold down both of the two buttons until numeric digital display flashes, then release the button.

3.2 Click first button to select "1A" or "2A" which means 1 address or 2 addresses.

3.3 Then press and hold down any of the 2 buttons until the numeric digital display stops flashing to confirm the setting.

For example, when we set address to 22:
When select 1A, both two channels will be the same address 22.
When select 2A, channel 1 will be address 22, channel 2 will be address 23.
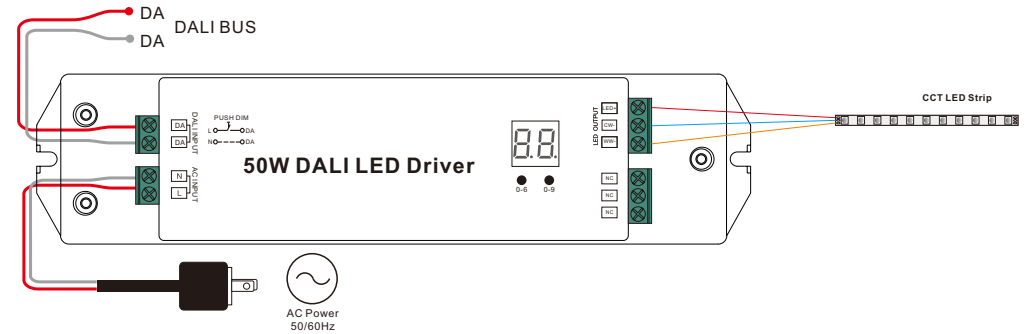
4. PUSH Dimmer Mode

While connected with a AC PUSH, the digital display will show "PD" which means Push Dimmer Mode, operations under Push Dimmer Mode are as follows:
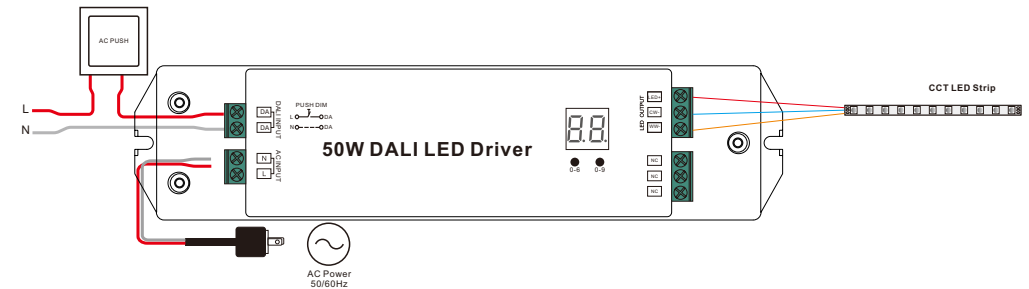
4.1. Click the button to switch ON/OFF

4.2. 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.

4.3. Memory function after power off or power failure enables the device to memorize the status before power off while power on again.

Wiring Diagram

1. With DALI Bus

2.With PUSH dimmer

Product Dimension