

213-259

4 Channel Constant Voltage DALI2 LED Dimmer

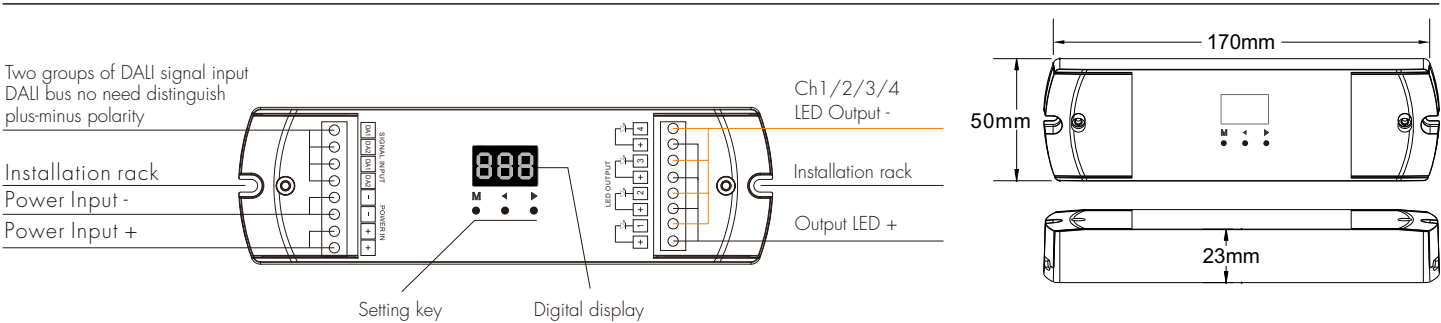
- 4 channel constant voltage DALI LED Dimmer with digital display.
- 1-4 DALI address quantity is selectable, 4 channel work separately.
- In accordance with DALI standard protocol IEC 62386-102, IEC 62386-207 and in compliance with DALI products from other international incorporation.
- DALI address can be manually assigned and shown in digital display or automatically assigned by DALI master.
- PWM digital dimming, standard DALI logarithmic dimming curve.
- PWM frequency 1000/2000/4000/8000Hz selectable.
- Overheat / Overload / Short circuit protection, recover automatically.
- With fast self-testing function.



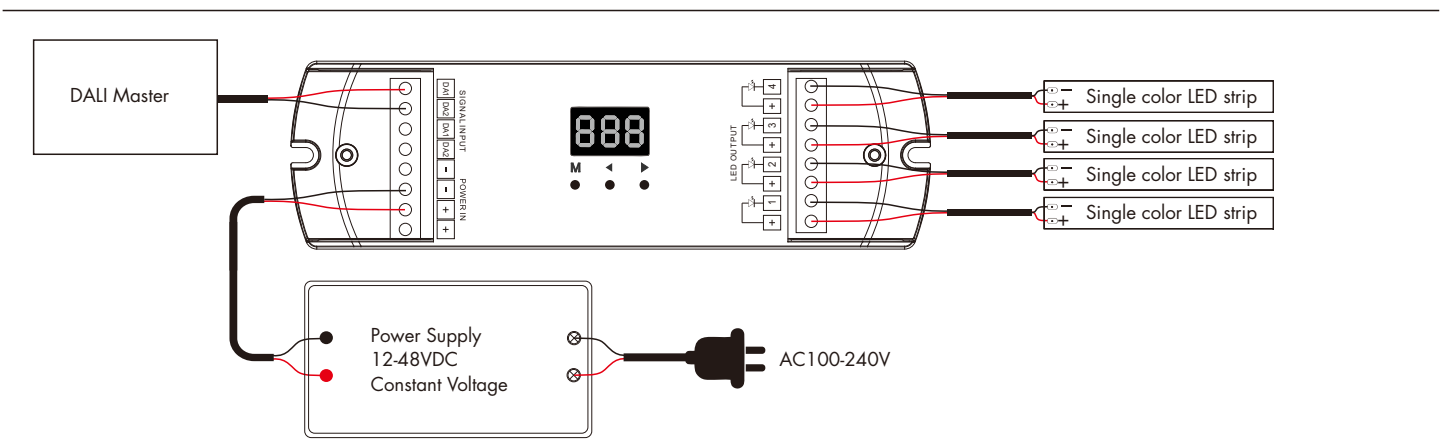
Technical Parameters

Input and Output		Dimming data		Safety and EMC	
Input voltage	12-48VDC	Input signal	DALI	EMC standard	EN IEC 55015/ EN IEC 61547 EN IEC 61000-3-2/ EN IEC 61000-3-3
Input current	20.5A	Dimming range	0-100%		
Output voltage	12-48VDC	Dimming curve	Logarithmic		
Output current	4 x 5A@12/24V 4 x 3A@36/48V	PWM Frequency	1000/2000/4000/8000Hz	Safety standard	EN 61347-1/-2 EN 62493
Output power	4 x 60W@12V 4 x 120W@24V 4 x 108W@36V 4 x 144W@48V	Environment		Certification	CE RoHS
Output type	Constant voltage	Operation temperature	Ta: -30℃ ~ +55℃	Warranty	
Package		Case temperature (Max.)	Tc: +85℃	Warranty	5 years
Size	L175x W54 x H27mm	IP rating	IP20		
Gross weight	0.136kg				

Mechanical Structures and Installations



Wiring Diagram



Note: When display OLA, overload alarm. When display OHA, overheat alarm.

Operation

Set DALI Address Quantity

You need set DALI address quantity according to applications requirement for the first time.

- Long press M for 2s, prepare for set DALI address quantity.
- Short press ◀ or ▶ key to switch between 1/2/3/4 DALI address quantity ("1CH", "2CH", "3CH" or "4CH").
- Short press M key or timeout 10s, quit DALI address quantity setting.

DALI address quantity setup explain:

When set 1 DALI address, Ch1,Ch2,Ch3,Ch4 will be the same DALI address.

When set 2 DALI address, Ch1,Ch3 will be same DALI address A, Ch2,Ch4 will be same DALI address A+1.

When set 3 DALI address, Ch1 will be DALI address A, Ch2 will be DALI address A+1,
Ch3 will be DALI address A+2, Ch4 no DALI address and no output.

When set 4 DALI address, Ch1 will be DALI address A, Ch2 will be DALI address A+1,
Ch3 will be DALI address A+2, Ch4 will be DALI address A+3.

For example, the start DALI address is 32:

When DALI address quantity is "1CH", the dimmer occupy 1 DALI address and address is 32.

When DALI address quantity is "2CH", the dimmer occupy 2 DALI addresses and address is 32,33.

When DALI address quantity is "3CH", the dimmer occupy 3 DALI addresses and address is 32,33,34.

When DALI address quantity is "4CH", the dimmer occupy 4 DALI addresses and address is 32,33,34,35.

Set DALI Address via buttons

- Long press ◀ or ▶ key for 2s, prepare for set the start DALI address, then press ◀ or ▶ key to set the start DALI address.
- Short press M key or timeout 10s, quit start DALI address setting.
- The start DALI address can be manually assigned from 00-63-FF.
- by factory defaults, no DALI address is assigned for the dimmer, and digital display shows "AFF".

DALI address assigned by DALI masters

DALI address can also be assigned by DALI Master controller automatically.

Please refer to user manuals of compatible DALI Masters for specific operations.

The digital display will show "AAU" When the DALI master is assigning address.

After address is assigned, the digital display will show the start DALI address "Axx", xx is from 00 to 63.

Using DALI master assign address may result in discontinuous address, the digital display will show the start DALI address "Uxx".

Set PWM frequency

- Long press M & ◀ key for 2s, prepare for set PWM frequency.
- Short press ◀ or ▶ key to switch between 1000Hz("F10"), 2000Hz("F20"), 4000Hz("F40") or 8000Hz("F80").
Higher PWM frequency, will cause lower output current, higher power noise, but more suitable for camera(No flickers for video).
- Short press M key or timeout 10s, quit PWM frequency setting.

Restore factory default parameter

- Long press ◀ and ▶ key for 2s, restore factory default parameter, display "RES".
- Factory default parameter: no DALI address is assigned, DALI address quantity is 4, PWM frequency is 2000Hz.
- Long press M & ▶ key for 2s, enter fast self-testing, the output channel will be on orderly then all on.

Safety & Warnings

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