LDT-DALI-A10-1CH-20MA

Single-Address DALI to 0/1-10V Converter with Dry-Contact Relay

Convert 1 DALI address into 1 analogue dimming channel for compatible drivers, with a separately rated relay for load switching.

Supply voltage	100-240 VAC
Output type	1-channel 0/1-10V control signal with separate relay output
Maximum signal current	20 mA per channel
DALI addresses	1
Analogue mode	0-10V or 1-10V, selectable
Relay load rating	10 A resistive / 8 A incandescent / 5 A inductive dry-contact load; observe inrush
Dimming	0-100%
Dimming curve	Linear (default)
Control inputs	DALI
Operating temperature	-30 to +55 °C
Maximum case temperature	+60 °C
IP rating	IP20
Body dimensions	131 x 37 x 20.5 mm

Do not connect the LED load directly to an analogue output. The dry-contact or AC relay wiring is model-specific; follow this model diagram rather than another converter in the family.

The following reference pages include the complete wiring, dimensions, settings and operating instructions. Use the lighting and hardware variant identified above; shared references may illustrate other separate models.

DALI

DALI 0/1-10V Dimmer

- 1 DALI address, 1 channel 0/1-10V output.
- Powered by AC100-240V.
- 10A dry contact mains rated relay output.
- 0-10V or 1-10V output selectable.
- In accordance with DALI standard protocol IEC 62386 and in compliance with DALI products from other international incorporation.
- Compliant DALI device type 5.



CE RoHS emc LVD

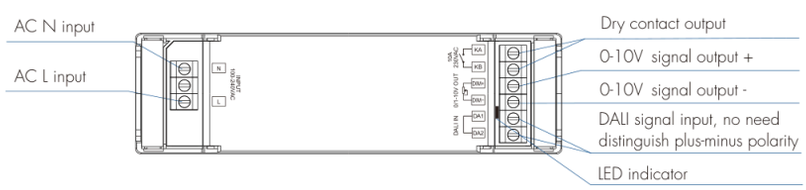
Technical Parameters

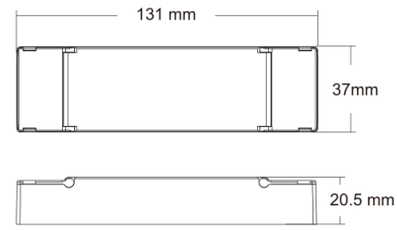
Input and Output	
Input voltage	100-240VAC
Input current	0.02A
Output signal	0/1-10V, 20mA
Max relay load current	**10A resistive load** 8A incandescent **5A inductive load**
Warranty	
Warranty	5 years

Dimming data	
	0 -100%
Dimming curve	**Linear(default)**
Environment	
Operation temperature	Ta: -30℃ ~ +55℃
Case temperature (Max.)	Tc: +60 ℃
IP rating	IP20

Safety and EMC	
EMC standard (EMC)	EN IEC 55015:2019+A11:2020 EN 61547:2009 EN IEC 61000-3-2:2019+A11:2021 EN 61000-3-3:2013+A11:2019
Safety standard(LVD)	EN 61347-1:2015+A1:2021 EN 61347-2-13:2014+A1:2017
Certification	CE,EMC,LVD
Package	
Size	L135 x W40 x H23mm
Gross weight	0.089kg

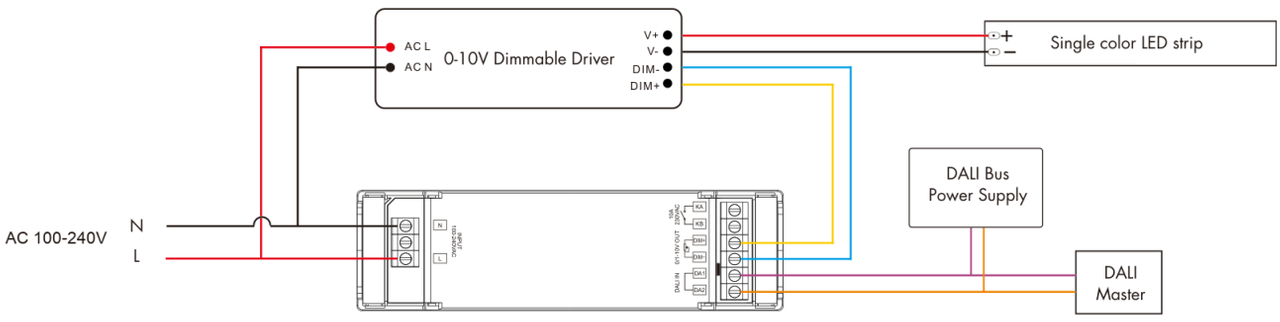
Mechanical Structures and Installations



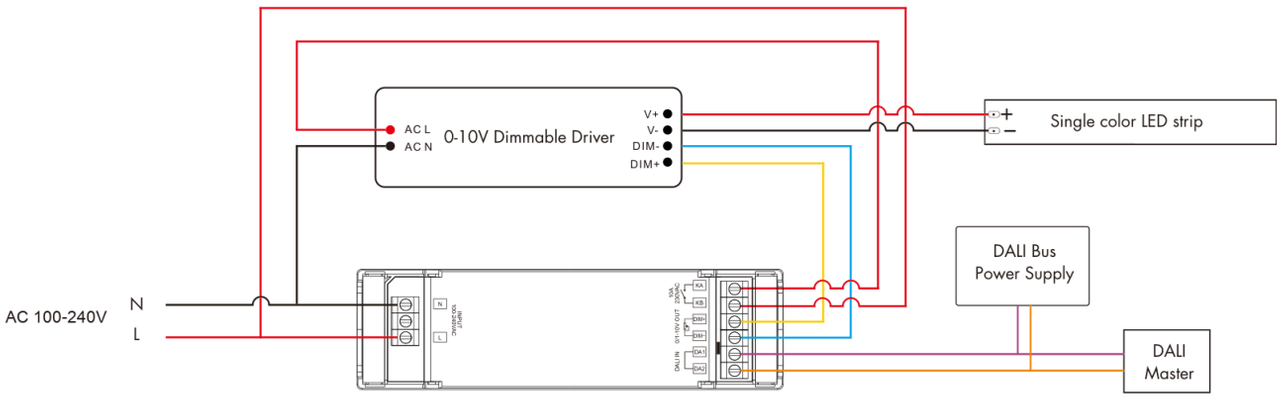


Wiring Diagram

- Connect with 0/1-10V dimming driver (no use dry contact output)



- Connect with 0/1-10V dimming driver (use dry contact output)



Note:
We recommend the number of LED drivers connected to 0/1-10V dimmer does not exceed 20 pieces,
The maximum length of the wires from dimmer to LED driver should be no more than 50 meters.

Operation

Set 0/1-10V output mode

Switching 0-10V or 1-10V output mode via the DALI master software interface.

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.