LDT-A10-1CV-8A

8 A Single-Channel 0/1-10V LED Dimmer

Convert analogue dimming inputs into a correctly rated low-voltage PWM LED output. The input control signal is separate from the DC supply that powers the LED load.

Supply voltage	12-48 VDC
LED output	1-channel constant-voltage PWM
Maximum output current	8 A
Maximum output power	96 / 192 / 288 / 384 W at 12 / 24 / 36 / 48 V
Control inputs	0/1-10V; active/passive, 10V PWM or resistance input
Dimming	0-100%
PWM frequency	500 / 2000 / 8000 / 16000 Hz
Dimming curve	Logarithmic
Rated input current	8.5 A
Operating temperature	-20 to +55 °C
Maximum case temperature	+85 °C
IP rating	IP20
Body dimensions	97 x 33 x 18 mm

No proprietary RF receiver is specified for this model. An analogue input is not a mains phase-cut input.

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.

0/1-10V

0/1-10V LED Dimming Driver

Features

- 1 channel 0/1-10V input,
  1 channel PWM constant voltage output.
- 0~100% dimming range via logarithmic characteristic
  can be very comfortable for human eyes.
- Compatible with active or passive 0-10V, 1-10V dimmer,
  can solve the fluorescent lamp dimming system compatible with LED lighting.
- PWM frequency 500Hz, 2KHz, 8KHz or 16KHz selectable.



FC CE RoHS

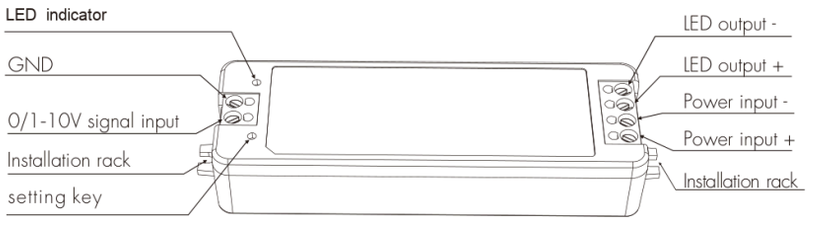
Technical Parameters

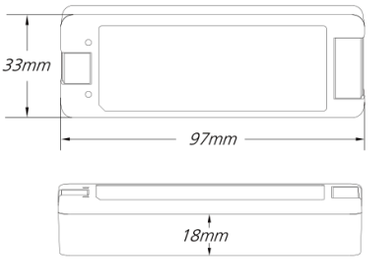
Input and Output	
Input voltage	12-48VDC
Input current	8.5A
Output voltage	12-48VDC
Output current	1CH,8A
Output power	96W/192W/288W/384W (12V/24V/36V/48V)
Output type	Constant voltage

Dimming Data	
Input signal	0/1-10V
Dimming range	0-100%
Dimming curve	Logarithmic
PWM Frequency	500Hz/2KHz/8KHz/16KHz
Environment	
Operation temperature	Ta: -20°C ~ +55°C
Case temperature (Max.)	Tc: +85°C

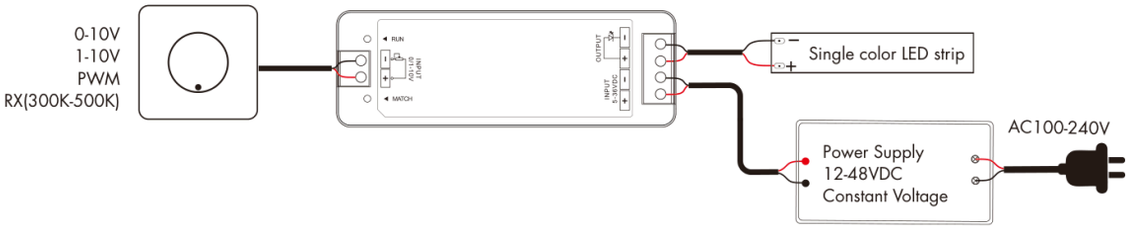
Safety and EMC	
EMC standard	EN IEC 55015/EN IEC 61547 EN IEC 61000-3-2/EN IEC 61000-3-3
Safety standard	EN 61347-1/-2 EN 62493
Certification	CE RoHS FCC
Package & Warranty	
Size	L114xW38xH26mm
Gross weight	0.053kg
Warranty	5 years

Mechanical Structures and Installations





Wiring Diagram



Notes:

- The 0/1-10V input is operable via commercially available simple rotary wall switchs designed for 0/1-10V dimming equipment or from decicated system central dimming controllers.
- Compliant with 0-10V, 1-10V, 10V PWM, RX(4 in 1).
- We recommend the number of LED drivers connected to 0/1-10V dimmer does not exceed 50 pieces, The maximum length of the wires from dimmer to LED driver should be no more than 50 meters.

PWM Frequency Setting

Long press SET key for 2s, set PWM frequency to 500Hz, LED indicator flash once.
Long press SET key for 5s, set PWM frequency to 2KHz, LED indicator flash twice.
Long press SET key for 10s, set PWM frequency to 8KHz, LED indicator flash 3 times.
Long press SET key for 15s, set PWM frequency to 16KHz, LED indicator flash 4 times.
Higher PWM frequency, will cause lower output current, higher power noise, but more suitable for camera(No flickers for video).

PWM frequency and output current mapping:

I_{out} PWM / U_{in}	500Hz	2KHz	8KHz	16KHz
12-48V	8A	8A	7A	7A

Dimming Curve

