LDT-A10-2CV-5A

Dual-Channel 0/1-10V DUO LED Controller

Convert analogue dimming inputs into a correctly rated low-voltage PWM LED output. The two inputs can control DUO brightness/temperature or warm/cool channels separately.

Supply voltage	12-36 VDC
LED output	2-channel constant-voltage PWM
Maximum output current	5 A per channel
Maximum output power	2 x (60-180) W
Control inputs	2 x 0/1-10V
Dimming	0-100%
PWM frequency	2000 Hz
Dimming curve	Linear or logarithmic
Analogue channel modes	Brightness + colour temperature, or independent warm-white + cool-white
Rated input current	10.5 A
Operating temperature	-30 to +55 °C
Maximum case temperature	+85 °C
IP rating	IP20
Body dimensions	114 x 38 x 20 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

2 Channel 0/1-10V LED Dimming Driver

Features

- 2 channel 0/1-10V LED dimming driver, 2 channel PWM constant voltage output.
- For dual color control, the two 0/1-10V input can be set as warm white and cool white dimming respectively, or one for brightness adjust and the other for color temperature adjust.
- 0~100% dimming range, linear or logarithmic dimming curve selectable.
- Compatible with active or passive 0-10V, 1-10V dimmer, can solve the fluorescent lamp dimming system compatible with LED lighting.



CE RoHS

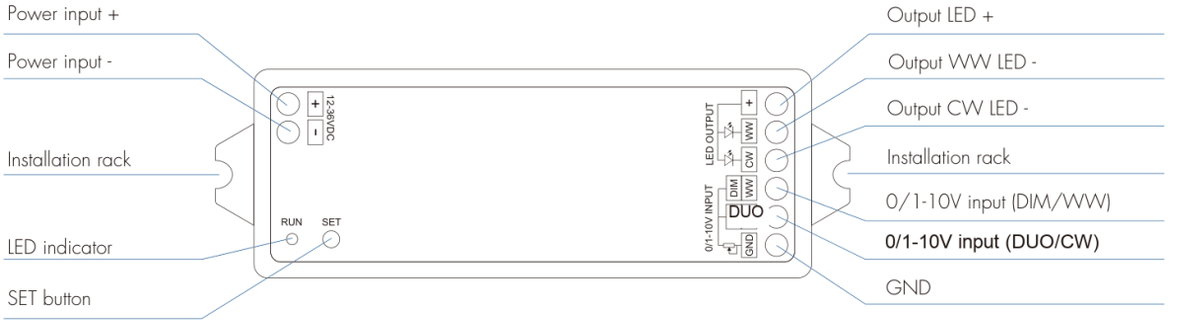
Technical Parameters

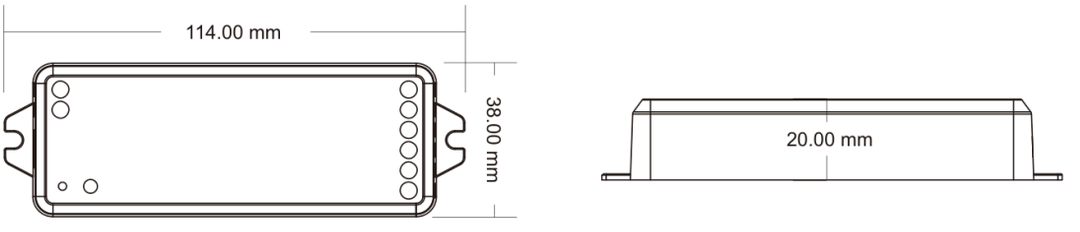
Input and Output	
Input voltage	12-36VDC
Input current	10.5A
Output voltage	12-36VDC
Output current	2CH,5A/CH
Output power	2 x (60-180)W
Output type	Constant voltage
Warranty and Protection	
Warranty	5 years
Protection	Reverse polarity

Dimming data	
Input signal	0/1-10V
Dimming range	0-100%
Dimming curve	Linear(default)
PWM Frequency	2KHz
Environment	
Operation temperature	Ta: -30°C ~ +55°C
Case temperature(Max.)	Tc: +85°C
IP rating	IP20

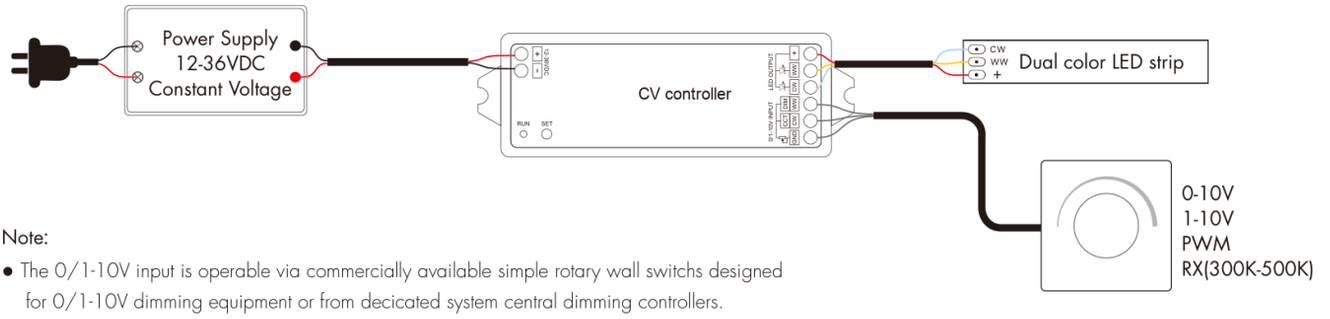
Safety and EMC	
EMC standard	EN IEC 55015/EN IEC 61547 EN IEC 61000-3-2/EN IEC 61000-3-3
Safety standard	EN 61347-1/-2 EN 62493
Certification	CE RoHS
Package	
Size	L120 x W43 x H27mm
Gross weight	0.066kg

Mechanical Structures and Installations





Wiring Diagram



Note:

- 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.

Key Function

Press the SET button to switch two dimming mode:

Press and hold the SET button for 2s, the RUN indicator will flash once, set DIM+DUO dimming mode,

DIM dimming input for brightness adjust, DUO dimming input for color temperature adjust (factory setting).

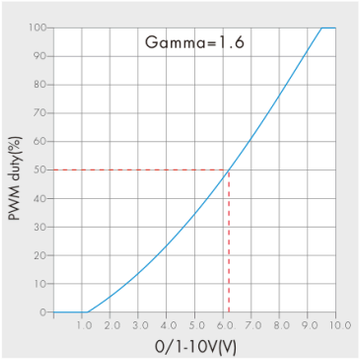
Press and hold the SET button for 5s, the RUN indicator will flash twice, set WW+CW dimming mode,
WW dimming input for WW LED channel brightness adjust, CW dimming input for CW channel brightness adjust.

Note:

- **Press and hold the SET button for 10s, RUN indicator flashes 3 times, restore factory settings (linear dimming, DIM+DUO dimming mode).**
- Press and hold the SET button for 15s, RUN indicator flashes 4 times, set logarithmic dimming.

Dimming Curve

0/1-10V dimming



0/1-10V DUO

