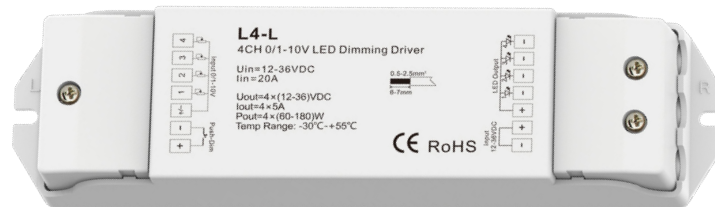


LCDMSD-L4-L

4 Channel 0/1-10V + Push Dim Controller



Features

- 4 Channel 0/1-10V LED dimming controller with push-dim function
- 4 Channel 0/1-10V input, 4 channel PWM constant voltage output
- 0-100% dimming range with logarithmic characteristics
- Compatible with active or passive 0-10V, 1-10V dimmer

Technical Parameters

Input and Output

Input voltage	12-36VDC
Input current	20.5A
Output voltage	12-36VDC
Output current	4CH,5A/CH
Output power	4 x (60-180)W
Output type	Constant voltage

Environment

Operation temperature	Ta: -30°C ~ +55°C
Max case temperature	Tc: +85°C
IP rating	IP20

Warranty and Protection

Warranty	5 years
Protection	Reverse Polarity

Safety and EMXC

Health	EN 62479:2010
Safety	EN 62368-1 :2020+A11:2020
EMC	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4

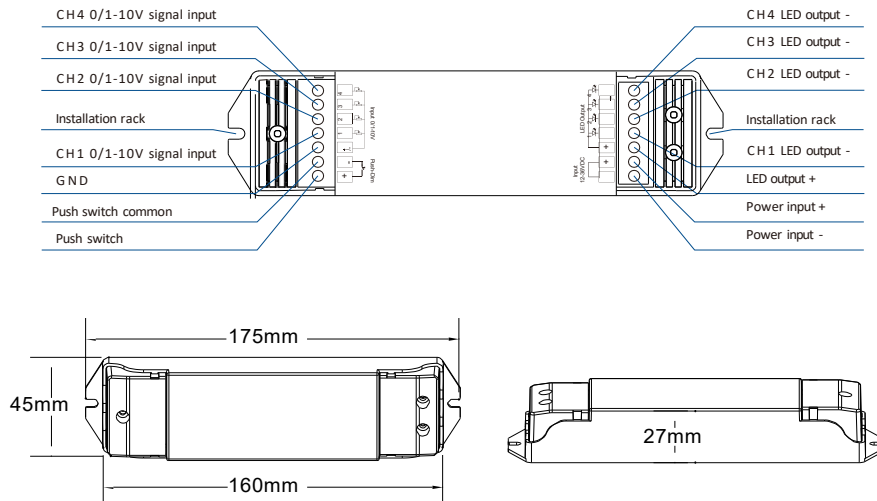
Dimming Data

Input signal	0/1-10V + Push dim
Dimming range	0-100%
Dimming curve	Logarithmic
PWM frequency	500Hz

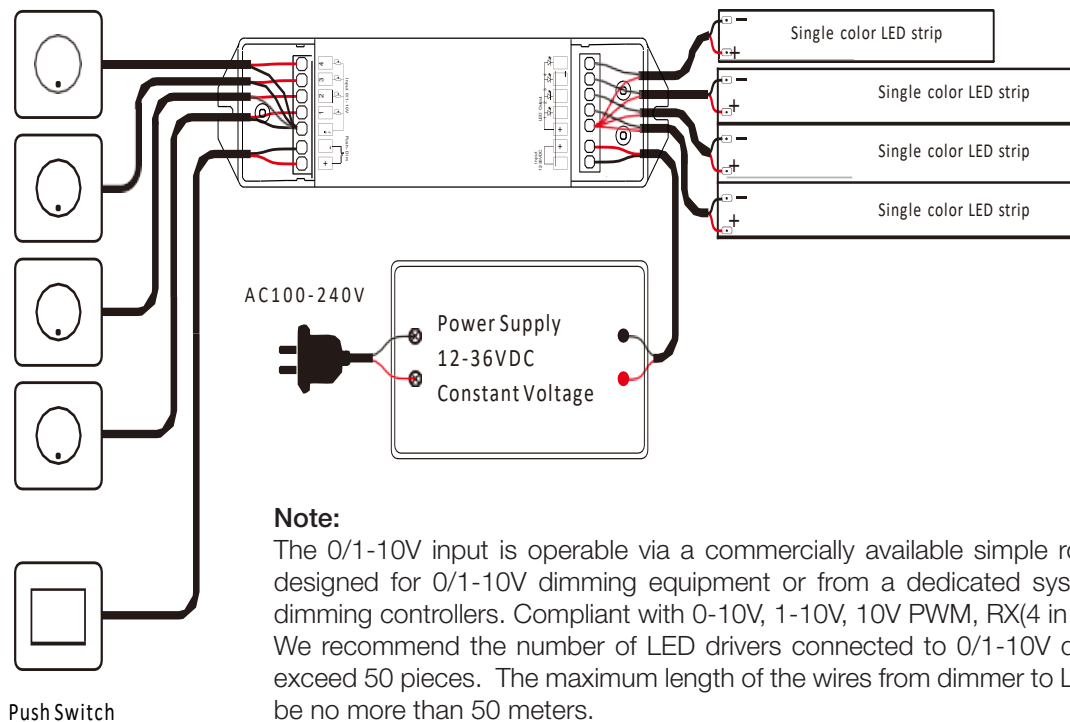
Weight

Net weight	0.127kg
Gross weight	0.136kg

Mechanical Structures and Installations



Wiring Diagram



Note:

The 0/1-10V input is operable via a commercially available simple rotary wall switch designed for 0/1-10V dimming equipment or from a dedicated system with 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.

If the LED driver was used with Push-Dim interface prior to using the 0/1-10V interface, the 0/1-10 V signal should change over 10% to return 0/1-10 V control.

Push dim function

The push-dim interface allows for a simple dimming method using non-latching (momentary) wall switches.

Short press:

Turn all 4 channels on/off.

Long press(1-6 seconds):

Press and hold for smooth, uninterrupted dimming that will change all 4 channels together without noticeable delay. With every other long press, the light level goes to the opposite direction.

Dimming memory:

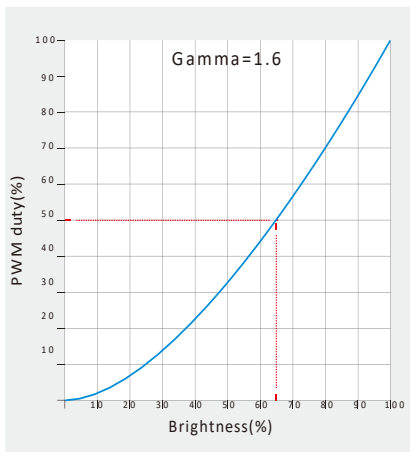
Light returns to the previous dimming level when switched off and on again or after a power failure.

Synchronization:

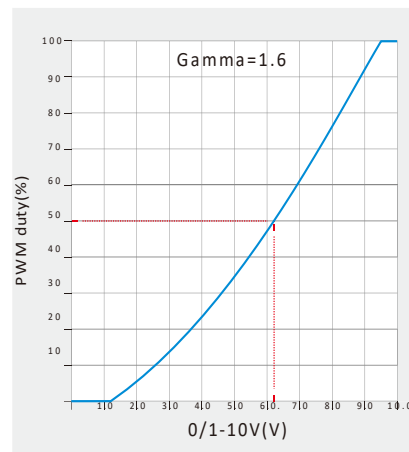
If more than one controller is connected to the same push switch, long press for more than 10 seconds, then the system should be synchronised, and all lights should dim up to 100 %. This means there is no need for additional synchrony wire in larger installations. We recommend the number of controllers connected to a push switch does not exceed 50 units. The maximum length of wires from the push to controller should not exceed 50 meters.

Dimming Curve Setting

Push dimming



0/1-10V dimming



Malfunctions	Causes	Troubleshooting
No light	<ol style="list-style-type: none"> 1. No power 2. Wrong or insecure connection 	<ol style="list-style-type: none"> 1. Check the power 2. Check the connection
Uneven intensity between front and rear, with voltage drop	<ol style="list-style-type: none"> 1. Output cable is too long 2. Wire diameter is too small 3. Overload beyond power supply capability 4. Overload beyond controller capability 	<ol style="list-style-type: none"> 1. Reduce cable or loop supply 2. Change to a wider wire 3. Replace with a higher power supply 4. Add a data repeater