

0/1-10V LED Dimming Driver

Model No.: LV-L

0-10V or 1-10V signal input/PWM Constant voltage output/Logarithmic dimming/Push Dim



FC CE RoHS 8Y LVD

Features

- 1 channel 0/1-10V LED dimming driver with push-dim function.
- 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.

Technical Parameters

Input and Output	
Input voltage	12-36VDC
Input current	12.5A
Output voltage	12-36VDC
Output current	1CH, 12A
Output power	144-432W
Output type	Constant voltage

Warranty and Protection	
Warranty	5 years
Protection	Reverse Polarity

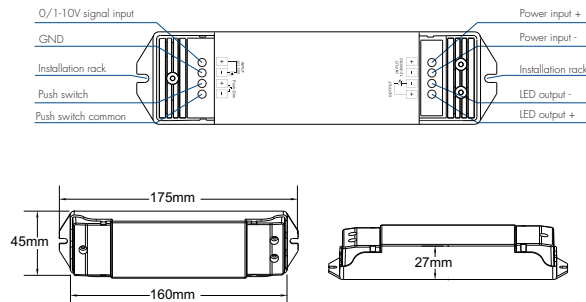
Weight	
Net weight	0.100kg
Gross weight	0.124kg

Dimming data	
Input signal	0/1-10V + Push Dim
Dimming range	0-100%
Dimming curve	Logarithmic
PWM Frequency	500Hz

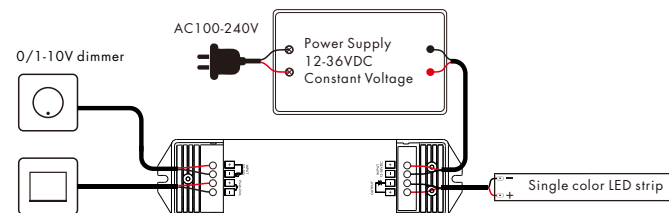
Safety and EMC	
EMC standard (EMC)	EN301 489, EN 62479
Safety standard (LVD)	EN60950
Certification	CE, EMC, LVD

Environment	
Operation temperature	T _a : -30°C ~ +55°C
Case temperature (Max.)	T _c : +85°C
IP rating	IP20

Mechanical Structures and Installations



Wiring Diagram



Push Switch

Note:

- The 0/1-10V input is operable via commercially available simple rotary wall switches designed for 0/1-10V dimming equipment or from dedicated 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 5 pieces. The maximum length of the wires from dimmer to LED driver should be no more than 1.5 meters.
- If the LED driver be 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 provided Push-Dim interface allows for a simple dimming method using commercially available non-latching (momentary) wall switches.

- **Short press:**

Turn on or off light.

- **Long press (1-6s):**

Press and hold to stepless dimming,

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, even at power failure.

- **Synchronization:**

If more than one controller are connected to the same push switch, do a long press for more than 10s, then the system is synchronized and all lights in the group dim up to 100%.

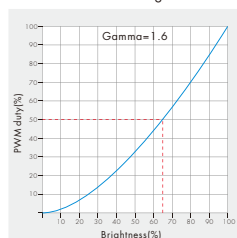
This means there is no need for any additional synchrony wire in larger installations.

We recommend the number of controllers connected to a push switch does not exceed 25 pieces,

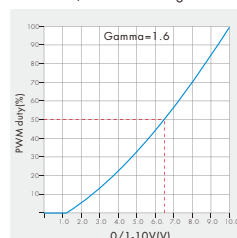
The maximum length of the wires from push to controller should be no more than 20 meters.

Dimming Curve

Push dimming



0/1-10V dimming



Malfunctions Analysis & Troubleshooting

Malfunctions	Causes	Troubleshooting
No light	1. No power. 2. Wrong connection or insecure.	1. Check the power. 2. Check the connection.
Uneven intensity between front and rear, with voltage drop	1. Output cable is too long. 2. Wire diameter is too small. 3. Overload beyond power supply capability. 4. Overload beyond controller capability.	1. Reduce cable or loop supply. 2. Change wider wire. 3. Replace higher power supply. 4. Add power repeater.