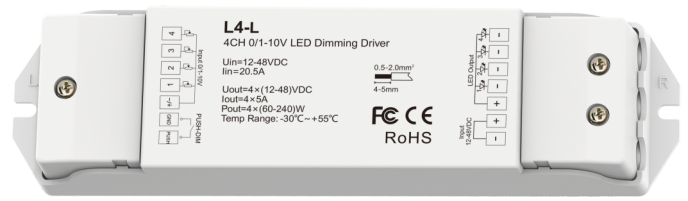


4 Channel 0/1-10V LED Dimming Driver

- 4 channel 0/1-10V LED dimming driver with push-dim function.
- 4 channel 0/1-10V input, 4 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.

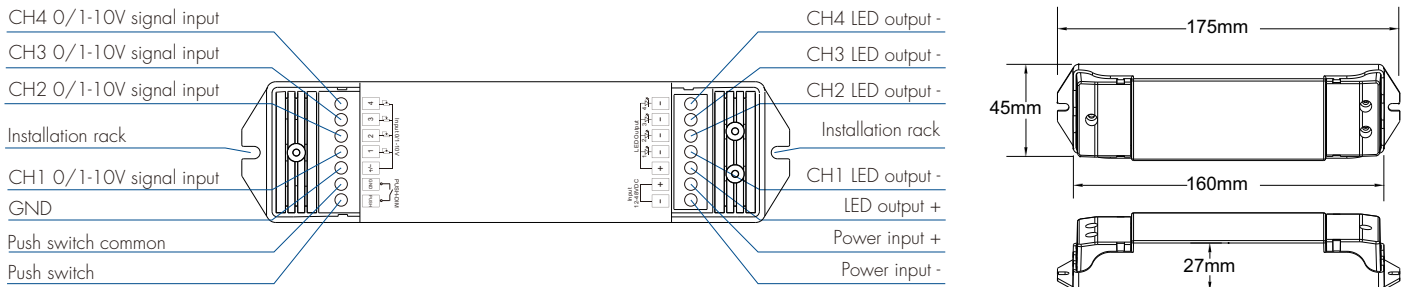


FC CE RoHS

Technical Parameters

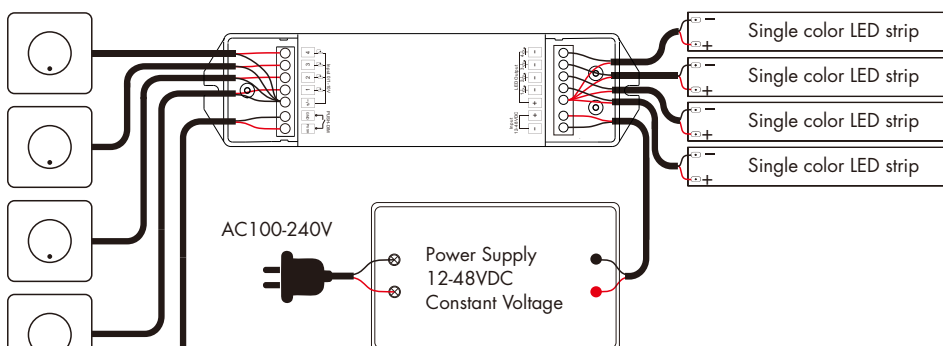
| Input and Output | | Dimming data | | Safety and EMC | |
|------------------|------------------|---------------|--------------------|-------------------------|---|
| Input voltage | 12-48VDC | Input signal | 0/1-10V + Push Dim | EMC standard | EN IEC 55015:2019+A11:2020 EN 61547:2009 EN IEC 61000-3-2:2019+A1:2021 EN 61000-3-3:2013+A1:2019 |
| Input current | 20.5A | Dimming range | 0-100% | Safety standard | EN 61347-1:2015+A1:2021 EN 61347-2-13:2014+A1:2017 |
| Output voltage | 12-48VDC | Dimming curve | Logarithmic | Certification | CE |
| Output current | 4CH,5A/CH | PWM Frequency | 2000Hz(default) | Environment | |
| Output power | 4 x (60-240)W | Package | | Operation temperature | Ta: -30°C ~ +55°C |
| Output type | Constant voltage | Size | L178 x W50 x H38mm | Case temperature (Max.) | Tc: +85°C |
| Warranty | | Gross weight | 0.136kg | | |
| Warranty | 5 years | | | | |

Mechanical Structures and Installations



Wiring Diagram

0/1-10V dimmer x 4



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 50 pieces, The maximum length of the wires from dimmer to LED driver should be no more than 50 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 Switch

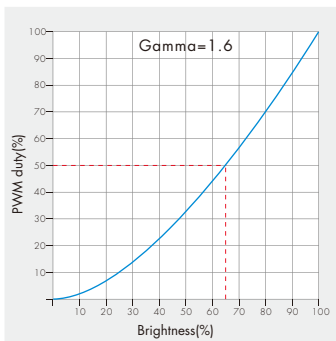
Push Dim Function

The provided Push-Dim interface allows for a simple dimming method using commercially available non-latching (momentary) wall switches.

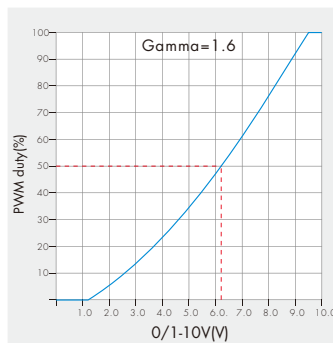
- Short press:**
 Turn on or off all 4 channel light.
- Long press (1-6s):**
 Press and hold to step-less dimming, adjust 4 channel brightness at the same time.
 With every other long press, the light level goes to the opposite direction.
- Dimming memory:**
 Light returns to the previous dimming level 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 50 pieces,
 The maximum length of the wires from push to controller should be no more than 50 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. |