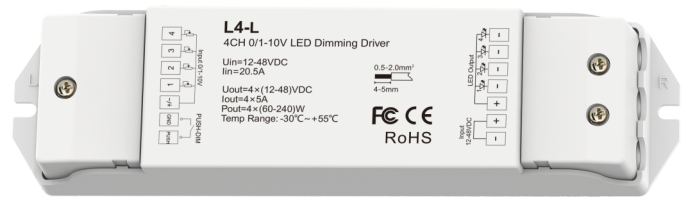


## 4 Channel 0/1-10V LED Dimming Driver

- 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.

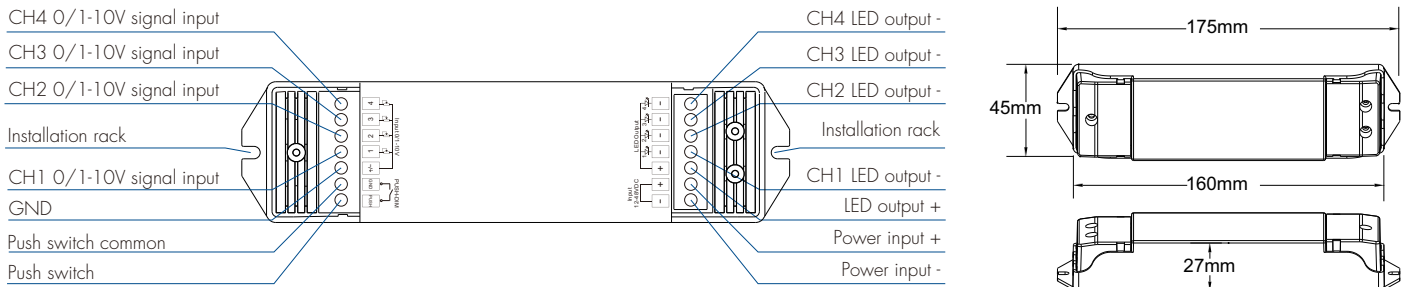


FC CE RoHS emc LVD

### Technical Parameters

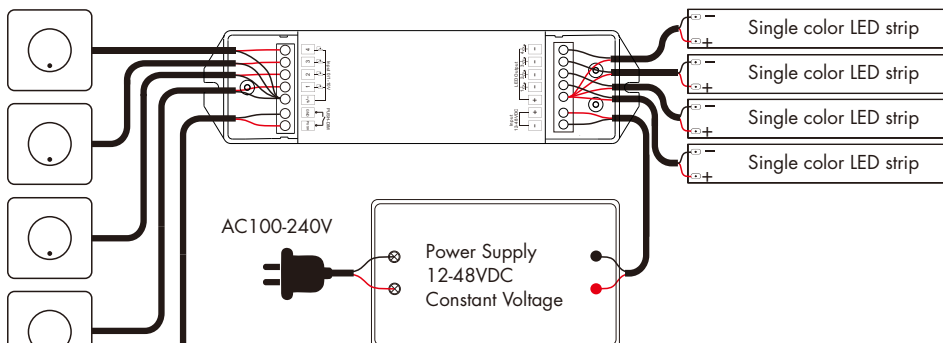
Input and Output		Dimming data		Safety and EMC	
Input voltage	12-48VDC	Input signal	0/1-10V + Push Dim	Health	EN 62479:2010
Input current	20.5A	Dimming range	0-100%	Safety	EN 62368-1:2020+A11:2020
Output voltage	12-48VDC	Dimming curve	Logarithmic	EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Output current	4CH,5A/CH	PWM Frequency	500Hz	<b>Environment</b>	
Output power	4 x (60-240)W	<b>Package</b>		Operation temperature	Ta: -30 °C ~ +55 °C
Output type	Constant voltage	Size	L178 x W50 x H38mm	Case temperature (Max.)	Tc: +85 °C
<b>Warranty</b>		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

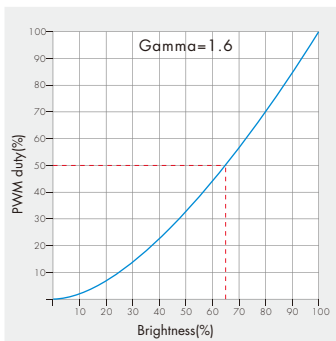
## Push Dim Function

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

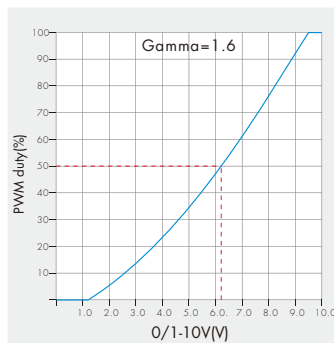
- Short press:**  
 Turn on or off all 4 channel light.
- Long press (1-6s):**  
 Press and hold to step-less dimming, adjust 4 channel brightness at the same time.  
 With every other long press, the light level goes to the opposite direction.
- Dimming memory:**  
 Light returns to the previous dimming 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	<ol style="list-style-type: none"> <li>No power.</li> <li>Wrong connection or insecure.</li> </ol>	<ol style="list-style-type: none"> <li>Check the power.</li> <li>Check the connection.</li> </ol>
Uneven intensity between front and rear, with voltage drop	<ol style="list-style-type: none"> <li>Output cable is too long.</li> <li>Wire diameter is too small.</li> <li>Overload beyond power supply capability.</li> <li>Overload beyond controller capability.</li> </ol>	<ol style="list-style-type: none"> <li>Reduce cable or loop supply.</li> <li>Change wider wire.</li> <li>Replace higher power supply.</li> <li>Add power repeater.</li> </ol>