

# LED PUSH & 1-10V Dimmer Mono User Manual



Controller: LC-011-001

## 1. Product introduction

As LED and fluorescent lights are becoming more and more popular in the same project, but the dimming principles of LED and traditional fluorescent lights are different, so we developed a new 0/1-10V dimming controller which has solved the compatible problem of fluorescent dimming controller and LED illumination; with our driver, the controller can dim both fluorescent and LED lamps at the same time.

## 2. Performance Parameter

Input Voltage	DC12V-DC24V
Max Current	10A/CH x1CH
Input Signal	0/1-10V or PUSH DIM
Output Signal	Constant Voltage PWM
Max Output Power	120W(12V) /240W(24V)
Product Dimension	L176×W46×H30(mm)
Package Dimension	L179×W49×H33(mm)
Weight	100g

## 3. Basic features

1. Working voltage from DC12V~DC24V.
2. 1 output channel, Max output 10A.
3. PUSH DIM input voltage AC/DC12V-230V.
4. 0/1 - 10V to PWM dimming signal conversion, linear or log.
5. Support linear dimming or logarithmic dimming.
6. Short circuit protection; over current protection.
7. Compatible with many brand dimming systems.
8. Multi units can be worked together or use our power repeaters to control more lamps.

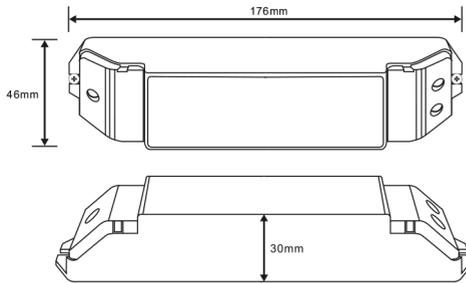
## 4. Safety warnings

Please don't install this controller in lightning, intense magnetic and high-voltage fields.

- 1.To reduce the risk of component damage and fire caused by short circuit, make sure correct connection.
- 2.Always be sure to mount this unit in an area that will allow proper ventilation to ensure a fitting temperature.
- 3.Check if the voltage and power adapter suit the controller.  
(please select DC12-24V power supply with constant voltage)
- 4.Don't connect cables with power on; make sure a correct connection and no short circuit checked with instrument before power on.
- 5.Please don't open controller cover and operate if problems occur.

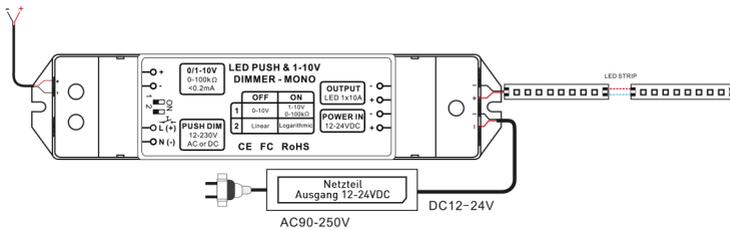
The manual is only suitable for this model; any update is subject to change without prior notice.

## 5. Dimensions

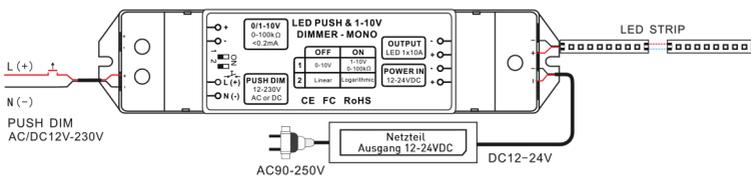


## 6. Conjunction Diagram

### 6.1. 0/1 - 10V Input connection:

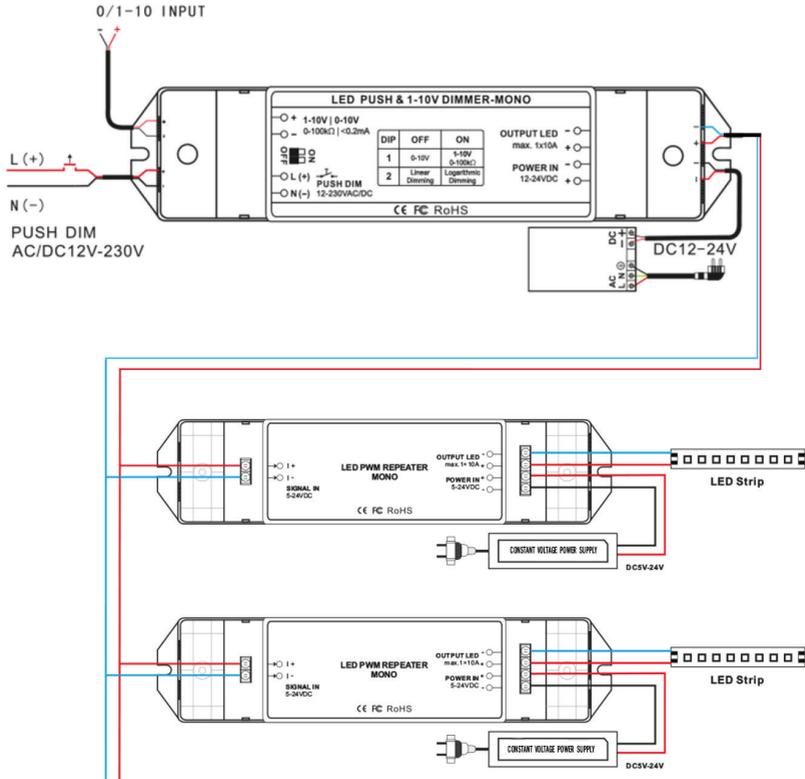


### 6.2. Push Dim Input connection:



**PUSH DIM Description :**

- 1) Short press PUSH DIM button (less than 0.5S) , to control the light ON/OFF.
- 2) Long press PUSH DIM button (more than 0.5S) , adjust the light brightness; After each adjustment, the changing goes opposite.
- 3) When the light is OFF, long press PUSH DIM button, the light turn ON and dim.
- 4) When long press PUSH DIM to adjust the brightness, dimming range is 1%-100%, short press it to turn OFF the light.
- 5) Power down memory function available, when power ON, stay at last state.



**7. Reference**

The current source has to be always a DC constant voltage source. The constant voltage source should never be fully stretched. It should always be operate with 25% power reserve.