



SuperLightingLED L4-ML RF to 4 Channel 0/1-10V LED Dimmer User Manual

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SuperLightingLED L4-ML RF to 4 Channel 0/1-10V LED Dimmer User Manual



RF to 4 Channel 0/1-10V LED Dimmer

Model No.: L4-ML

AC or DC input/4 channel 0/1-10V signal output/AC relay output/Wireless remote control

Features

- RF to 4 channel 0-10V converter, powered by AC or DC input.
- Output 4 channel 0-10V signal, connect with 0/1-10V dimmable driver.
- High voltage AC input, High voltage AC relay output.
- 0-10V or 1-10V output selectable by DIP switch.
- 256 levels 0-100% dimming smoothly without any flash.
- Match with RF 2.4G single color, dual color and RGB/RGBW remote control.
- One RF controller accept up to 10 remote control.
- Auto-transmitting function: Controller automatically transmit signal to another controller with 30m control distance.
- Synchronize on multiple number of controllers.
- Light on/off fade time 3s selectable.

Technical Parameters

Input and Output

Input voltage

100-240VAC

12-24VDC

Output signal

4 x (0/1-10)VDC

Output current

0/1-10V: 20mA/CH AC: Max 3A

Dimming data

Input signal

RF 2.4GHz

Control distance

30m(Barrier-free space)

Dimming range

0 -100%

Dimming curve

Linear

Safety and EMC

EMC standard (EMC)

ETSI EN 301 489-1 V2.2.3
ETSI EN 301 489-17 V3.2.4

Safety standard(LVD)

EN 62368-1:2020+A11:2020

Radio Equipment(RED)

ETSI EN 300 328 V2.2.2

Certification

CE,EMC,LVD,RED

Environment

Operation temperature

Ta: -30 OC ~ +55 OC

Case temperature (Max.)

T c: +65OC

IP rating

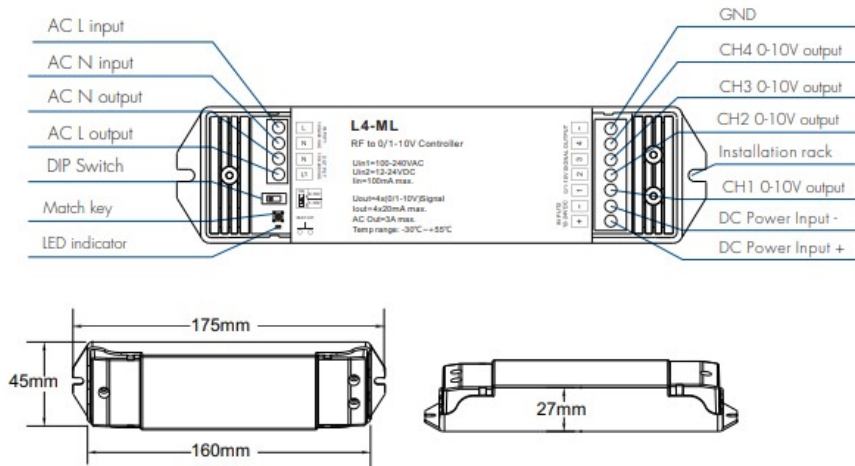
IP20

Warranty and Protection

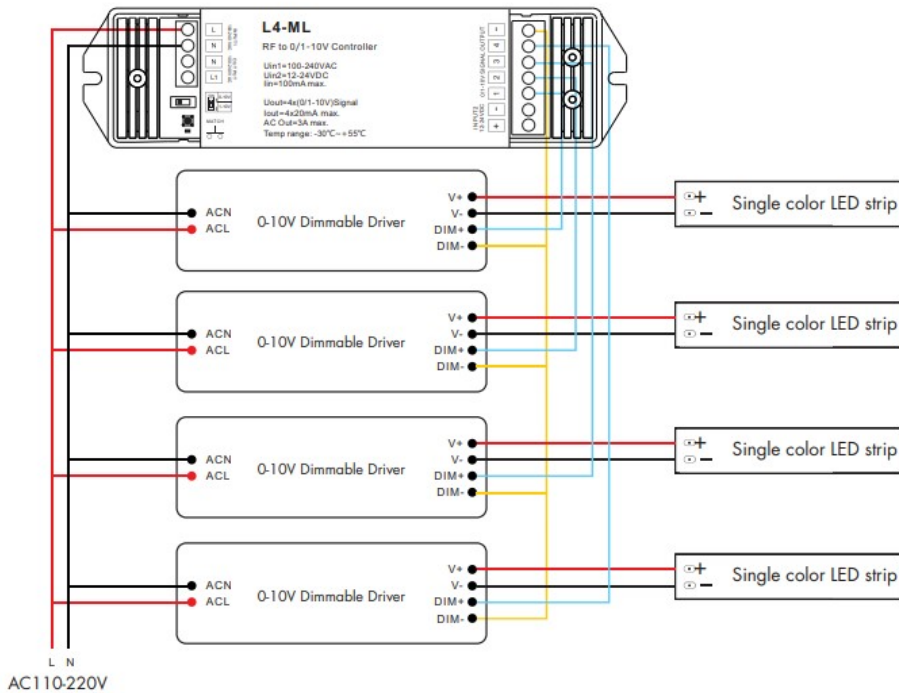
Warranty

5 years

Mechanical Structures and Installations



Wiring Diagram



Note:

1. User can connect AC100-240V power or DC12-24V power adapter as power input.

2. We recommend the number of LED drivers connected to each 0/1-10V output does not exceed 50 pieces,
The maximum length of the wires from dimmer to LED driver should be no more than 50 meters.
3. If total power of the 0/1-10V dimming driver is less than 600W, we can use AC OUT port to cut off power input of the driver.
4. When use AC OUT port, an additional AC relay or contactor is needed when total input current of the load is higher than 3A or inrush current is greater than 30A.

Match Remote Control (two match ways)

End user can choose the suitable match/delete ways. Two options are offered for selection

Use the controller's Match key

Match:

Short press match key, immediately press on/off key (single zone remote) or zone key (multiple zone remote) of the remote.

Delete:

Press and hold match key for 5s to delete all match,

The light blinks 5 times means all matched remotes were deleted.

Use Power Restart

Match:

Switch off the power, then switch on power, repeat again. Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 3 times on the remote.

The light blinks 3 times means match is successful.

Delete:

Switch off the power, then switch on power, repeat again. Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 5 times on the remote.

The light blinks 5 times means all matched remotes were deleted.

Available remote controller



RS6 **RT1** **RT6**
4 Channel Dimming **Zone Dimming** **4 Zone Dimming**

If you use one receiver, you have two choices:

Option 1: Match with RS6 4 channel dimming remote, 4 channel 0-10V signal can be controlled independently.

Option 2: Match with RT1 one zone dimming remote, 4 channel 0-10V signal can be controlled synchronously.

If you use multiple receivers, you have two choices:

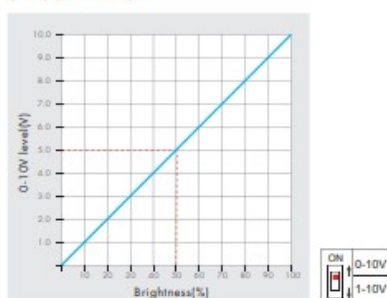
Option 2: Match with RT1 one zone dimming remote, multiple receivers can be controlled synchronously, and 4 channel 0-10V signal of each receiver are same.

Option 2: Match with RT6 four zone dimming remote, each receiver(one or more) in a different zone.

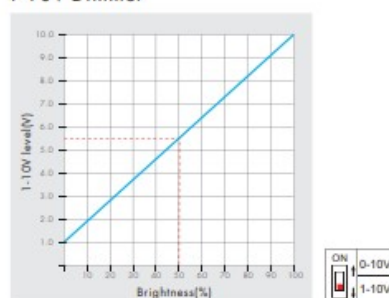
0-10V or 1-10V dimming setting

Select 0-10V dimmer or 1-10V dimmer according to dimmable LED driver.

0-10V Dimmer



1-10V Dimmer



Note:

When the output channel is off, the output dimming signal is 0V or 1V. Please read the dimming section of the dimming driver manual.

If the dimming characteristic curve is the same as right, you must select 1-10V dimmer and use AC OUT function, otherwise you can't turn off the lights.

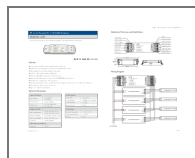
Light on/off fade time

Long press match key 5s, then short press match key 3 times, the light on/off time will be set to 3s, the indicator light blink 3 times.

Long press match key 10s, restore factory default parameter, the light on/off time also restore to 0.5s.

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L4-ML, RF to 4 Channel 0 1-10V LED Dimmer, L4-ML RF to 4 Channel 0 1-10V LED Dimmer