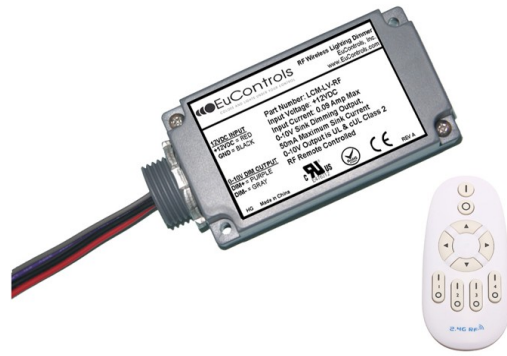


# RF Wireless Lighting Controller 0(1)-10V Dimming



**RF Wireless**  
**LCM-LV-RF**  
**Wireless Controller**

## Product Features

- RF, Cordless Dimming of Luminaires
- 2.4GHz, +8dBm RF transmit power
- 0-10V Analog Dimming Control, 50mA Sink
- Compatible with Electronic Ballasts & LED Drivers that comply with IEC60929 Annex E2, 1-10V Dimming.
- Stores last dim setting even when powered off.

## Environmental

1. Operating temperature: Tc Maximum 72 °C, Ambient -5 to +60°C Max.
2. Storage temperature range: -40 to +80°C
3. Humidity (non-condensing): 5% - 95%RH
4. Cooling: Convection
5. Vibration Frequency: 5-55Hz/2g, 30 minutes
6. Impact resistance: 1g/s

## Safety and Compliance

1. UL244A, UL508, CSA22.2 14-13 Listed
2. UL2043 Plenum Rated
3. FCC, 47CFR Part 15 Class B compliant
4. Damp, Dust Proof Design IP50

## Electrical Specifications at 25°C

- Input voltage range: 12VDC, 11-13VDC
- Input current Module Power: ≤0.090A for Units power use



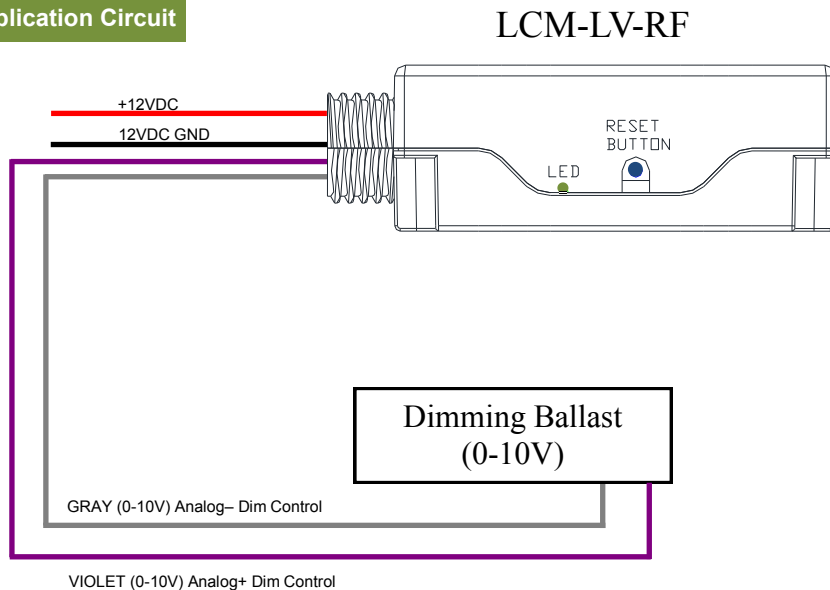
IP50



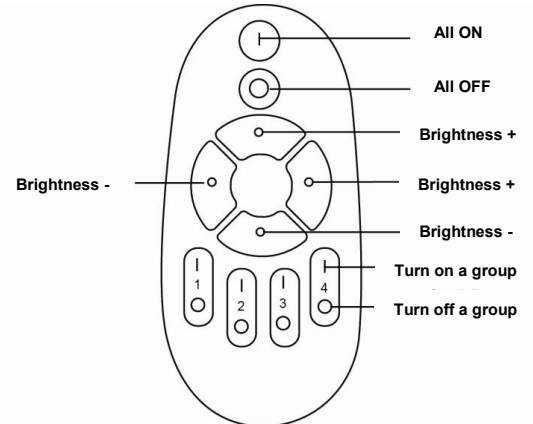
## Part Numbers

Part Number	Dimming US Class 2	Dimming CN Class 2	Control	0-10V Analog
LCM-LV-RF	YES	YES	RF	YES

## Typical Application Circuit



Typical -RF Version Control  
Required LCM-RF-REMOTE remote control is purchased separately



## Notes





1. Do not cross wire or short Vin to Dim out wires or part will be damaged.

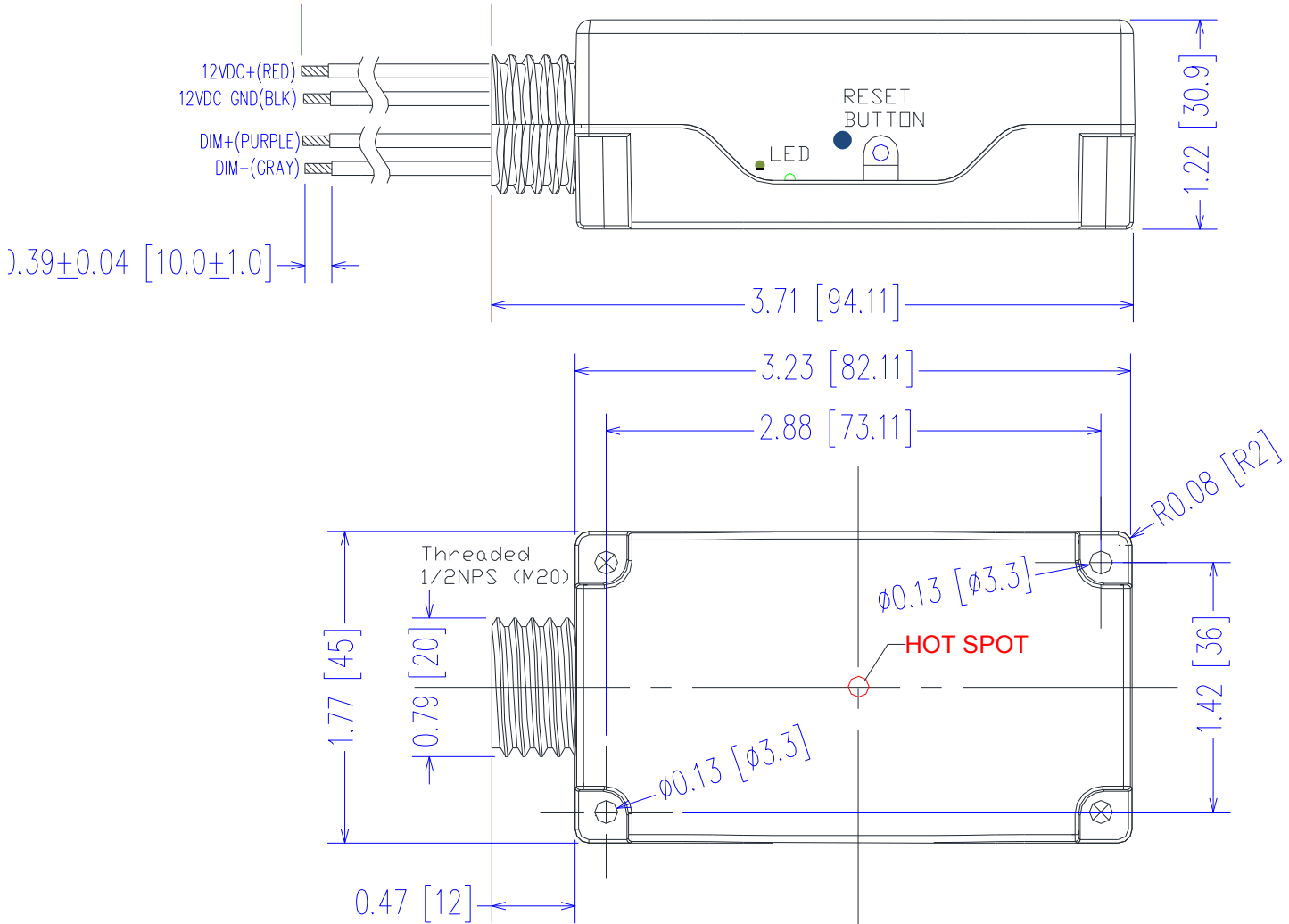
## RF Wireless Lighting Controller 0(1)-10V Dimming

**Mechanical Dimensions: Inches [mm]**

Material: Gray 5VA PC ABS Plastic Case  
Weight: 55 Grams (1.9 oz.) Typical

**Labeling Example**

 <b>RF Wireless Lighting Dimmer</b> <small>EuControls, Inc. www.EuControls.com</small>	
<b>12VDC INPUT</b> +12VDC = RED GND = BLACK	<b>Part Number: LCM-LV-RF</b> <b>Input Voltage: +12VDC</b> <b>Input Current: 0.09 Amp Max</b> <b>0-10V Sink Dimming Output,</b> <b>50mA Maximum Sink Current</b> <b>0-10V Output is UL &amp; cUL Class 2</b> <b>RF Remote Controlled</b>
<b>0-10V DIM OUTPUT</b> DIM+ = PURPLE DIM- = GRAY	  
<small>HG Made in China</small>	



# RF Wireless Lighting Controller

## 0(1)-10V Dimming

### Input Specifications

Parameter	Min.	Typ.	Max.	Notes/Conditions
Input Voltage	11.0VDC	12.0VDC	13.0VDC	12VDC Nominal Value
RF Control Transmit Power	—	—	+8dBm	11 Step log dimming, 2.4GHz GFSK Modulation

### Output Specifications

Parameter	Min.	Typ.	Max.	Notes/Conditions
Sink Current on 0-10V (+) Purple Wire	0mA	—	50mA	IEC60929 Annex E2
Absolute Voltage Range on 0-10V (+) Purple Wire	-20.0V	—	+20V	IEC60929 Annex E2
Dimming Range	0.4V	—	+10V	Ballast or Led Driver provides Dim Voltage & Current per IEC60929 Annex E2, 0(1)-10V Analog Dimming

### Environmental Specifications

Parameter	Min.	Typ.	Max.	Notes/Conditions
Operating Temperature (Ta)	-20 °C	—	+60 °C	Operating temperature range.
Storage Temperature (Ts)	-40 °C	—	+85 °C	Non operating temperature range.
Operating Humidity	—	—	95% RH	Relative Humidity, non-condensing.
Vibration	5 Hz	—	55 Hz	2G, 10 minutes/1 cycle, period 30 minutes, each along X, Y, Z axis.

### Safety & EMC Compliance

Safety	Notes/Standards
UL/CUL Listed	UL244A, UL508 & CAN/CSA C22.2 No. 14-13 Listed, UL2043 Plenum Rated
CE	EN61347-1, EN61347-2-13
FCC	Compliant Class B

**RF Wireless Lighting Controller**  
**0(1)-10V Dimming**

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