

# Wireless Lighting Dimmer 0(1)-10V Dimming

## Product Features

- ZigBee Wireless Dimming of Luminaires
- +20dBm ZigBee 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, UL2043 Plenum Rated
2. FCC, 47CFR Part 15 Class B compliant
3. ZigBee HA Certified
4. Damp, Dust Proof Design IP50
5. EN61000-4-5: 2kV L-N, 8/20 µsec surge protection

## Electrical Specifications at 25°C

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

## Part Numbers



IP50



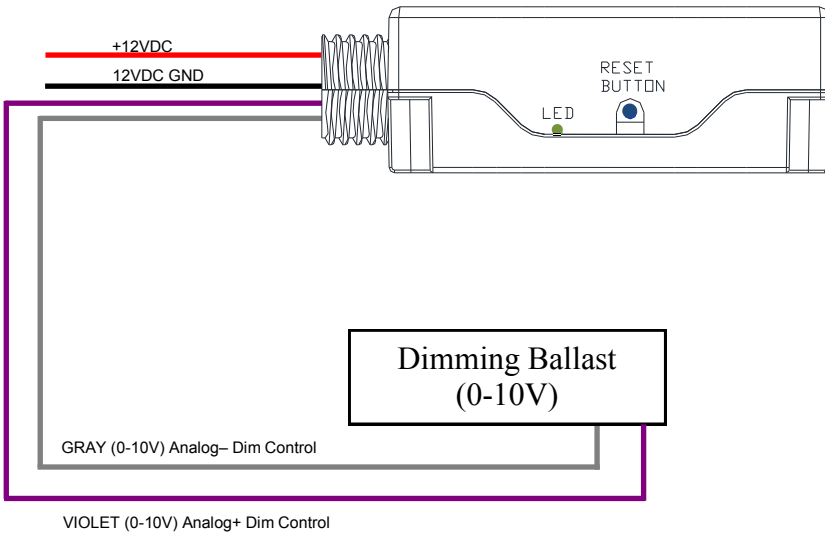
ZigBee®  
Certified product



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

## Typical Application Circuit

### LCM-LV-ZB



## Notes

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

## Wireless Lighting Dimmer

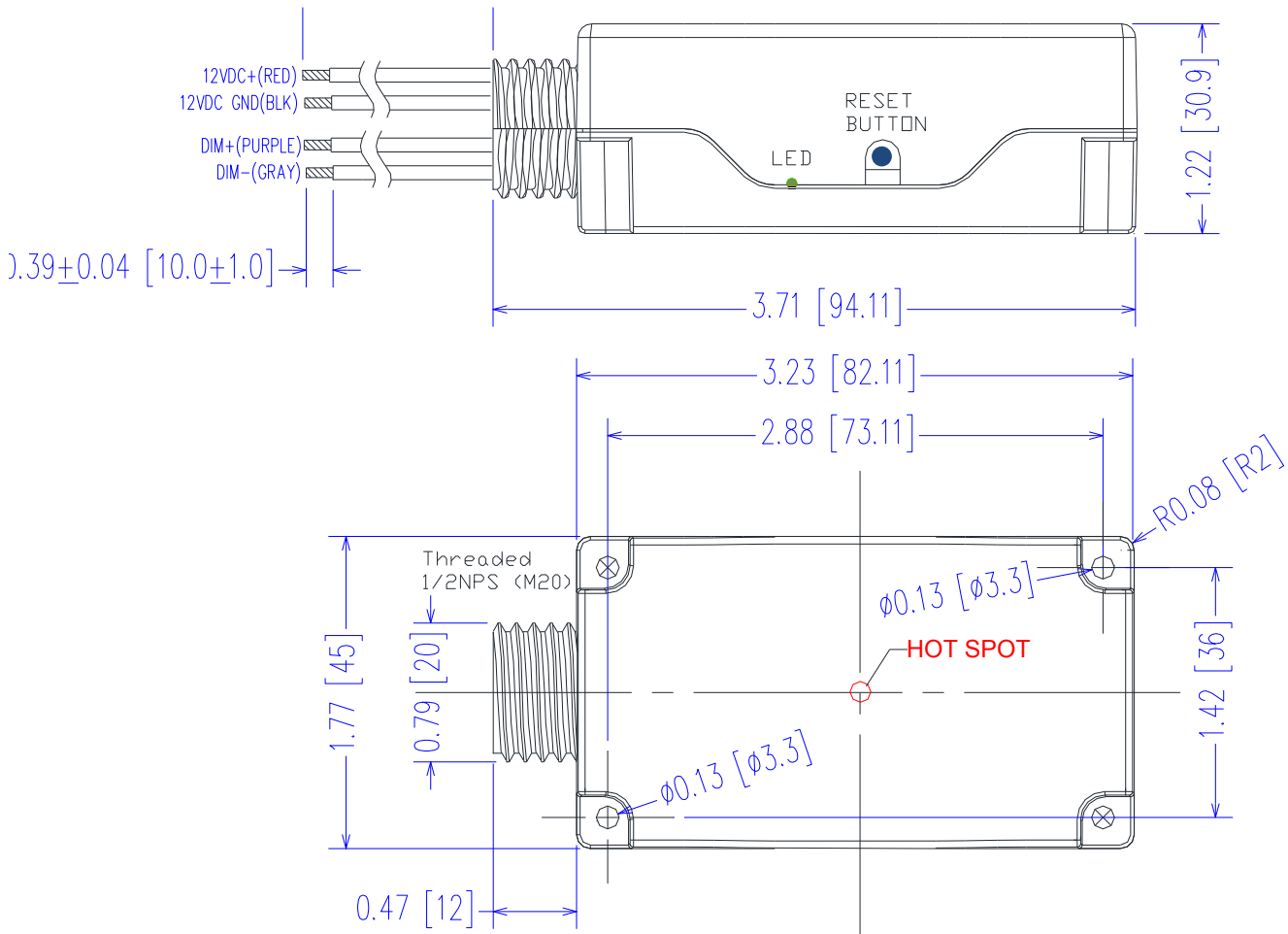
### 0(1)-10V Dimming

**Mechanical Dimensions: Inches [mm]**

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

**Labeling Example**

<b>EuControls</b> COLORS AND LIGHTS UNDER YOUR CONTROL		<b>ZigBee HA Lighting Dimmer</b> EuControls, Inc. www.EuControls.com
<b>12VDC INPUT</b> +12VDC = RED GND = BLACK	Part Number: LCM-LV-ZB Input Voltage: +12VDC Input Current: 0.09 Amp Max 0-10V Sink Dimming Output, 50mA Maximum Sink Current	REV A
	<b>0-10V DIM OUTPUT</b> DIM+ = PURPLE DIM- = GRAY	0-10V Output is UL & cUL Class 2 ZigBee HA
HG Made in China		



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### Input Specifications

Parameter	Min.	Typ.	Max.	Notes/Conditions
Input Voltage	11.0VDC	12.0VDC	13.0VDC	12VDC Nominal Value
ZigBee Control Transmit Power	—	—	+20dBm	11 Step log dimming, Standard ZigBee

### 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	0.9V	—	+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
Dimming Circuit	UL & cUL Isolated Class 2, Dim+ Purple/Dim- Gray
FCC	Compliant Class B
EN 61000-4-5	Part 4-5: Surge Immunity test, 2 kV L-N

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**Wireless**  
**LCM-LV-ZB**  
**Wireless Dimmer**

