

# 0-10VDC Input, 120VAC Phase Dimmer

## Overview

- Converts 0-10VDC Input from a Controller into Phased-Dimmed Output
- Sinking or Sourcing (Selectable) Dimming Input
- 120VAC Forward or Reverse Phase Dimming (Selectable)
- Rated for 600W max Incandescent/Halogen Loads, 300W max all other loads
- NEMA 1 rated Enclosure
- 1/2" NPT Threaded Nipple for Mounting to Enclosures

## Applications

The **LR01F600** provides 1-channel of forward or reverse phased dimmed output for loads up to 600W from a 0-10VDC dimming signal.

This device is used to control decorative or special application lighting loads using a 0-10VDC signal from devices like a wireless fixture/luminaire controller, as part of the networked lighting control system. Typical room applications for this device include Lobbies, Cafeterias, and Conference Rooms.

## Operation

**120VAC Dimming:** The LR01F600 converts a 0-10VDC signal to phased dimmed output. Output can be configured as forward or reverse phase via integral dip switches. Additional dip switches configure the device to receive sinking or sourcing 0-10VDC dimming signal input.

**1 Channel Dimming:** This device provides dimming control of 1 channel or zone. The maximum load connected to the device should not exceed 600 watts for Incandescent or Halogen loads (do not exceed 300 watts for all other load types).



For Indoor Use Only



## Summary

Product Type: 1 Channel Forward Or Reverse Phase Dimmer

Input Voltage: 120VAC

Input: 0-10V Sinking or Sourcing Dimming Signal

Load Rating: 600W Incandescent/Halogen (300W all other load types)

Mounting: 1/2" NPT Threaded Nipple

Operating Temperature: -30°F to 122°F (-34°C to 50°C)

Relative Humidity: 5-95% Non-Condensing

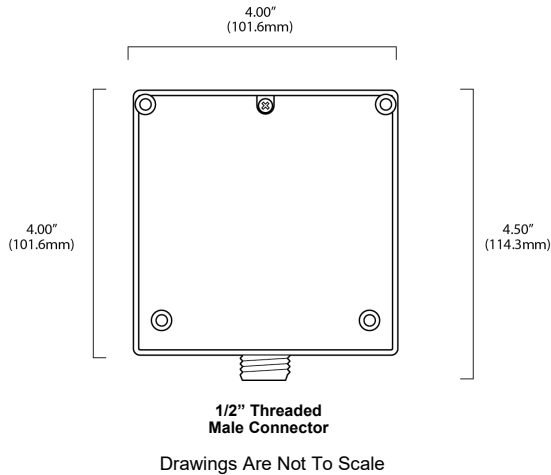
Color: Gray

Warranty: 5 years

Project

Location/Type

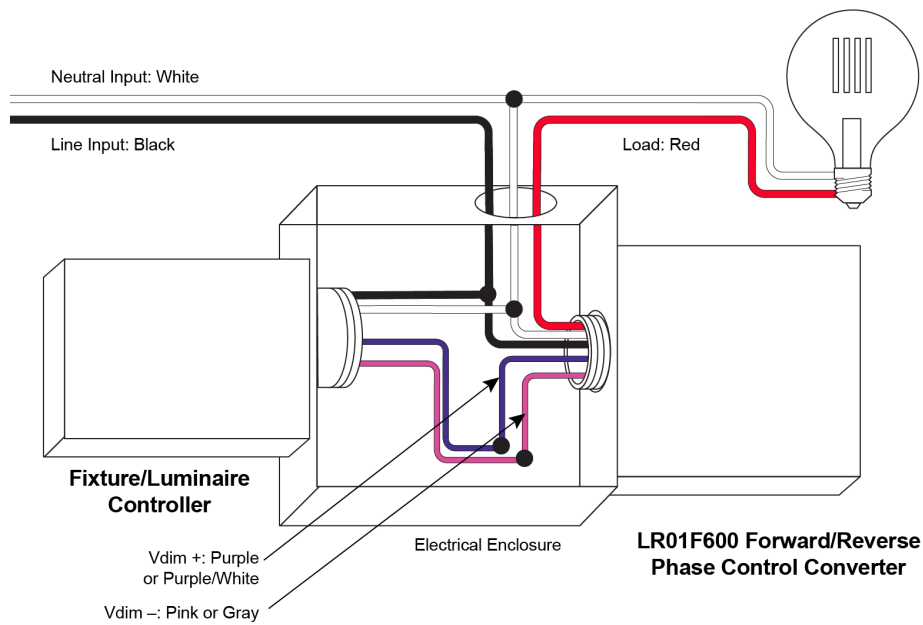
Physical Dimensions



Wiring Table

Wire	Designation	Notes
Black	120VAC Line Input	Line Input
White	120VAC Neutral Input	Neutral Input
Red	Dimmed Line Output	Dimmed Line Output to Load
Purple	0-10VDC+ Dim Input (Sourcing)	Luminaire Control Input (LR01F600 will be Sourcing)
Purple/White	0-10VDC+ Dim Input (Sinking)	Luminaire Control Input (0-10V control will be Sourcing)
Grey or Pink	0-10VDC- Dim Input	Luminaire Control Input

Wiring Example Application: LR01F600 with 0-10V Fixture/Luminaire Controller



Switch Settings		
Switch 1	ON	Leading Edge Dimming
Switch 1	OFF	Trailing Edge Dimming
Switch 2	ON	Current Source 0-10V
Switch 2	OFF	Current Sink 0-10V

**Notes:** • DIP switches on unit can change dimming between leading or trailing edge and between sinking or sourcing 0-10V control standards.

Purple wire is used with current sink 0-10V controllers and White/Purple wires are used with current source 0-10V controllers.

How to Order

Model No.	Description	Input Voltage	Output
LR01F600	0-10V Input - Forward/Reverse Phase Controlled 600W Dimmer	120VAC	120V Forward or Reverse Phase Dimmed Output

Design and specifications are subject to change without notice.