

Project		Catalog #		Type	
Prepared by		Notes		Date	



0-10V Controlled Phase Dimmer

120/277VAC 0-10v to phase dimmer converter with selectable forward and reverse phase options.

Typical Applications

Office • Education • Healthcare • Hospitality • Retail • Industrial • Manufacturing

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Product Certification



Overview

The Greengate 0-10V Controlled Phase Dimmer provides a reliable solution for converting standard 0-10V control signals into phase-dimming outputs. The LR21F600 supports both 120VAC and 277VAC circuits and is compatible with Current Sink and Current Source 0-10V controllers. The device delivers field selectable Leading-Edge (Forward Phase / TRIAC) or Trailing-Edge (Reverse Phase / ELV) dimming for broad application flexibility.

Product Features & Benefits

- 0-10 Vdc Input
- 120/277VAC Power Input
- 600W @ 120V AC
- 1300W @ 277 VAC Rated
- Dimming Mode Selectable Forward or Reverse phase
- Made in the USA

 product diagrams

Order Information

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LR21F600	Greengate 0-10V Controlled Phase Dimmer
Notes	Notes

Product Specifications

Mechanical

Size: 4.0" x 4.0" x 1.81" with 0.50" NPT hub (101.6mm x 101.6mm x 45.9mm)

Environment:

- **Operating temperature:** -30 to 122 F
- **Humidity range:** 5 to 95% (noncondensing)
- For indoor use only

Electrical

Wiring: 16", 600V rated

Max Lighting Load:

- 600W @ 120 VAC
- 1300W @ 277 VAC
- Specifically designed for use with incandescent and halogen lighting
- Recommended 50% derating for other dimmable lighting loads such as LED or CFL
- Not for use with Magnetic Low Voltage (MLV) loads

Min Lighting Load: 1W

Dim to off: Yes

Selectable Dimming Mode: Yes

Selectable Low Dim Threshold: Yes

Power Input Ratings: 10mA @ 120-277 Vac; 60Hz

0-10V Input Current Source: 1mA maximum per IEC Standard 60929 Annex E

Hardware Specifications

Housing: NEMA 1

Status Indicators:

- Red LED: Power Status

Installation

- A separate Neutral should be run for each phase dimmer to avoid common neutral interaction

Operation

- Switch on unit will change dimming between leading or trailing edge
- Requires power cycle
- Purple & pink wires are used with both Current Sink 0-10V controllers and Current Source 0-10V controllers.
- The LR21F600 will automatically detect the controller type

Programming

- "Low Dim Threshold" set with push button during operation. Pressing and holding the button for one second will log the present 0-10V value and turn off the load when 0-10V signal drops below that value.
- To reset "Low Dim Threshold", short together or send 0V to Purple & Pink. Then press and hold the button for 1 second.
- The above method will set the "Low Dim Threshold" to the minimum value. However, factory default "Low Dim Threshold" is set slightly above this mark. (Some lighting fixtures flicker at very low values.)

Standards/Ratings*

- Class 2 UL Listed
- UL916
- CE - European Conformity

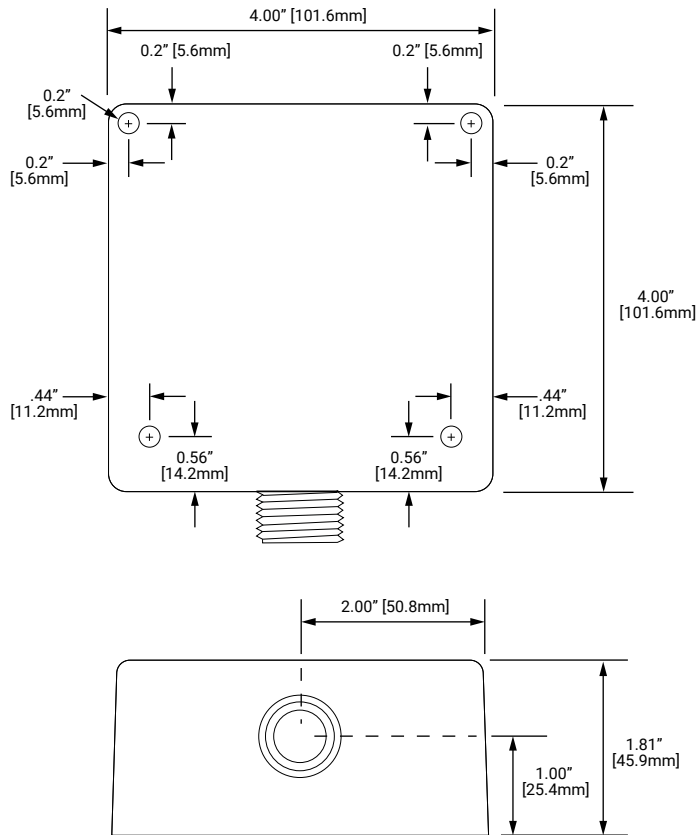
Environmental Regulations:

- RoHS Directive

Warranty

Consult website for warranty information

Dimensions



Wiring Diagrams

