GLS-LCL

Crestron Green Light® Photosensor, Closed-Loop

- *Ceiling-mount photosensor*
- *Measures the ambient light level from all light sources*
- *Versatile flush or surface mounting*
- *60 degree cone of coverage*
- *0 to 10 Volts DC analog control output*
- *Control system interface via Cresnet® [1] or analog input*

The GLS-LCL is a photosensor that measures ambient light in order to achieve the optimal balance of natural and artificial lighting in an indoor space in daylight harvesting applications. By harnessing natural daylight from windows and skylights, electrical lighting can be dimmed, reducing energy usage while maintaining a consistent light level for a more efficient and comfortable work or living space.

Intended for use with closed-loop type daylight harvesting systems, the GLS-LCL continually monitors the total ambient light level from all available light sources, which, along with precise control of room lighting and window shades, enables the control system to maintain a consistent level of light throughout the day. The best place to install the GLS-LCL in a typical office or similar space is on the ceiling directly above the primary work area. The sensor measures all light within a 60° cone, which consists predominately of reflected light, acquiring the most natural approximation of perceived changes in ambient light levels.

The GLS-LCL includes hardware to facilitate flush or surface mounting to a drywall or drop-tile surface. Its simple 3-wire interface allows for direct connection to a Crestron® control system via a single Versiport I/O or analog input port, with 24 Volts of power taken from the Cresnet® control bus.[1]

Using the optional GLS-SIM Sensor Integration Module, the GLS-LCL becomes a full-featured Cresnet device, streamlining the total lighting system. Cresnet provides a simpler solution for configuring and wiring sensors as part of any complete Crestron system. The Cresnet bus is the communications backbone for many Crestron keypads, lighting controllers, shade motors, sensors, and other devices. Cresnet is a simple, yet flexible 4-wire network that provides bidirectional communication and 24VDC power for Cresnet devices.

SPECIFICATIONS

Sensing

Field of View: 60 degree cone
Light Sensitivity: 0 to 70 foot-candles

Connections

Power: (1) Red flying lead; +24 Volt DC power input
Common: (1) Black flying lead; Power and control signal common
Sensor: (1) Orange flying lead; Light level control signal output; Provides 0-10 Volts DC analog control signal proportionate to the ambient light level; Connects to a GLS-SIM Integration Module or to a Versiport I/O or Analog Input control port on any Crestron control system

Power Requirements

Current Consumption: 4 mA at 24 Volts DC
Cresnet Power Usage: <1 Watt[2]

Environmental

Temperature: 32° to 131° F (0° to 55° C)
Humidity: 20% to 90% RH (non-condensing)

Housing

Construction: High-impact injection-molded plastic, white
Mounting: Surface or flush ceiling mount directly to drywall or drop-tile

Dimensions

Height: 0.99 in (25 mm)
Diameter: 2.52 in (64 mm)

Standards & Certifications

UL Listed, CSA Certified, California Title 24 Code Compliant

MODELS & ACCESSORIES

Available Models

GLS-LCL: Crestron Green Light® Photosensor, Closed-Loop

GLS-LCL Crestron Green Light® Photosensor, Closed-Loop

Available Accessories

GLS-SIM: Crestron Green Light® Sensor Integration Module

Notes:

1. Cresnet communications requires GLS-SIM Sensor Integration Module (sold separately).
2. Power may be taken from Cresnet bus regardless of interface method.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

Some Crestron products contain open source software. For specific information, visit www.crestron.com/opensource.

Crestron, the Crestron logo, Cresnet, and Crestron Green Light are either trademarks or registered trademarks of Crestron Electronics, Inc. in the United States and/or other countries. Other trademarks, registered trademarks, and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Crestron disclaims any proprietary interest in the marks and names of others. Crestron is not responsible for errors in typography or photography. Specifications are subject to change without notice.
©2016 Crestron Electronics, Inc.

Crestron Electronics, Inc. 15 Volvo Drive | Rockleigh, NJ 07647
Tel: 800.237.2041 / 201.767.3400 | Fax: 201.767.1903
www.crestron.com

All brand names, product names and trademarks are the property of their respective owners.
©2016 Crestron Electronics, Inc.

Specifications subject to change without notice. Revised 01/28/16