GLS-LOL

Crestron Green Light® Photosensor, Open-Loop

- *Ceiling- or wall-mount photosensor*
- *Measures the light level from a natural daylight source*
- *Vertical or horizontal surface mounting*
- *60 degree field of view*
- *0 to 10 Volts DC analog control output*
- *Control system interface via Cresnet®[1] or analog input*

The GLS-LOL is a photosensor that measures light in order to achieve the optimal balance of natural and artificial lighting in an indoor space in daylight harvesting applications. Intended for use with an open-loop type system, the GLS-LOL continually monitors the amount of daylight coming through a window or skylight, enabling the control system to dim or switch off room lighting when there is sufficient daylight available to light the space.

Open-loop photosensors provide a cost-effective solution for daylight harvesting, allowing multiple lighting zones to be controlled by a single sensor. In a typical office, classroom, or similar space, the GLS-LOL is installed on the ceiling near a window or in the light well of a skylight, directed toward the incoming daylight and away from any electrical lighting fixtures. The system estimates the total amount of ambient lighting in the room according to the light level measured by the photocell.

The GLS-LOL can be mounted to drywall or to a 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 Volt power taken from the Cresnet® control bus.[1] Using the optional GLS-SIM Sensor Integration Module, the GLS-LOL 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
Center Axis: 45 degrees from mounting surface
Light Sensitivity: 3 to 6000 foot-candles

Connections[2,3]

Plus: (1) Captive screw terminal, +24 Volt DC power input
Minus: (1) Captive screw terminal, power and control signal common
Arrow: (1) Captive screw terminal, light level control signal output, 0-10 Volts DC

Controls (Behind Cover)

Light Level Range: Jumper-selectable 3-300, 30-3000, or 60-6000 fc

Power Requirements

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

Housing

Construction: Plastic, white
Mounting: Surface mounts directly to drywall or drop-tile

Dimensions

Height: 1.20 in (31 mm)
Diameter: 2.00 in (51 mm)

MODELS & ACCESSORIES

Available Models

GLS-LOL: Crestron Green Light® Photosensor, Open-Loop

Available Accessories

GLS-SIM: Crestron Green Light® Sensor Integration Module

GLS-LOL Crestron Green Light® Photosensor, Open-Loop

Notes:

1. Cresnet communications requires GLS-SIM Sensor Integration Module (sold separately).
2. Recommended Wire Size: 22 AWG.
3. Connects to a GLS-SIM Integration Module or to a Versiport I/O or Analog Input control port on any Crestron control system.
4. 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.
©2015 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.
©2015 Crestron Electronics, Inc.

Specifications subject to change without notice. Revised 07/13/15