GLA-LDL-PC-0-10-WL-W

Dual-Loop Photosensor

- *Ceiling-mount photosensor*
- *Used in both open-loop and closed-loop applications*
- *Measures the ambient light level from all light sources*
- *60° cone of coverage for open-loop and closed loop applications*
- *Suitable for indoor, outdoor, and wet locations*
- *Closed-loop light sensitivity ranging from 3-300 fc*
- *Open-loop light sensitivity with three ranges: 3-300 fc, 30-3000 fc, and 60-6000 fc*
- *0 to 10VDC analog control output*
- *Versatile flush or surface mounting*
- *Control system interface via Cresnet® network or analog input*[1]

The GLA-LDL-PC-0-10-WL-W is a dual-loop photosensor that continually measures ambient light, achieving the optimal balance of natural and artificial lighting 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 work or living space. With an IP54 rating, the GLA-LDL-PC-0-10-WL-W is suitable for indoor, outdoor and wet location applications.

In closed-loop daylight harvesting applications, the GLA-LDL-PC-0-10-WL-W can be ceiling mounted directly above the primary work area. It measures all light within a 60° cone, which consists predominately of reflected light, acquiring the most natural approximation of changes in ambient light levels.

In open-loop daylight harvesting applications, the GLA-LDL-PC-0-10-WL-W can be ceiling mounted near a window or in the light well of a skylight. It can be directed toward incoming daylight and away from electrical lighting fixtures. The control system estimates the ambient lighting in the room according to the light level measured by the photocell.

The GLA-LDL-PC-0-10-WL-W 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 24V power taken from the Cresnet® network control bus.[1]

Using an optional sensor integration module (GLS-SIM or ZUMMESH-JBOX-SIM for a Zūm® J-Box, both sold separately), the GLA-LDL-PC-0-10-WL-W becomes a full-featured Cresnet device, streamlining the total lighting system. Cresnet provides a simple 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.

Specifications

Sensing

Field of view	60° cone
Light sensitivity	CL: 3-300 fc OL: 3-6000 fc
Center axis	CL: 90° OL: 45°

Controls and Connections

Light sensitivity settings	OL: 3-300 fc (factory setting); OL: 30-3000 fc; OL: 60-6000 fc; CL: 3-300 fc

> **NOTE:** Field of view and light sensitivity are set by installing jumpers on the device.

Crestron Electronics Inc.
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Dual-Loop Photosensor

Flying leads	(1) Red Input flying lead; 24VDC power input; (1) Black Ground flying lead; (1) Orange Output flying lead; Recommend wire size: 18 AWG; Light level control signal output; Provides 0-10V analog control signal proportionate to the ambient light level; Connects to a Crestron® sensor integration module (GLS-SIM or ZUMMESH-JBOX-SIM, sold separately) or to a Versiport I/O or Analog Input control port on any Crestron control system

Power Requirements

Current Consumption	2mA class 2 at 24VDC
Cresnet Power Usage	~.1 W; Cresnet communications requires a GLS-SIM or ZUMMESH-JBOX-SIM (both are sold separately). Power may be taken from Cresnet bus regardless of interface method. Connects to a GLS-SIM, ZUMMESH-JBOX-SIM, Versiport I/O, or Analog Input control port on any Crestron control system.

Environmental

Temperature	-40° to 158°F (-40° to 70°C) For indoor or outdoor use
IP Rating	IP54

Housing

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

Dimensions

Height	1.06 in. (27 mm)
Diameter	2.01 in. (51 mm)

Weight

.011 lb (.05 kg)

Compliance

UL® Listed

Models

GLA-LDL-PC-0-10-WL-W
Dual-Loop Photosensor

GLA-LDL-PC-0-10-WL-B
Dual-Loop Photosensor

Notes:

1. Cresnet communications requires a GLS-SIM or ZUMMESH-JBOX-SIM (both are sold separately). Power may be taken from Cresnet bus regardless of interface method. Connects to a GLS-SIM, ZUMMESH-JBOX-SIM, Versiport I/O, or Analog Input control port on any Crestron control system.
2. Recommended wire size: 18 AWG.

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/How-To-Buy/Find-a-Representative or by calling 855-263-8754.

This product is covered under the Crestron standard limited warranty. Refer to www.crestron.com/warranty for full details.

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

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

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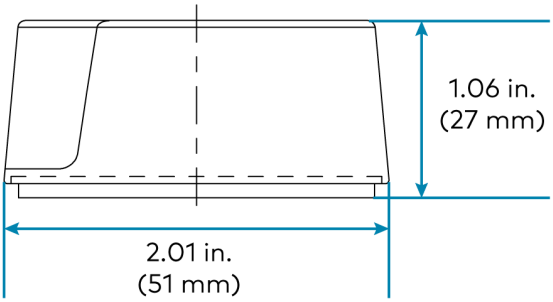

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