

GLA-LDL-PC-0-10

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
- 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 10 VDC analog control output
- Versatile flush or surface mounting
- Control system interface via Crestron® network or analog input¹

The [GLA-LDL-PC-0-10](#) is a dual-loop photosensor that continually 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.

In closed-loop type daylight harvesting applications, the [GLA-LDL-PC-0-10](#) is installed on the ceiling 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 perceived changes in ambient light levels.

In open-loop type daylight harvesting applications, the [GLA-LDL-PC-0-10](#) 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 [GLA-LDL-PC-0-10](#) 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 V power taken from the Crestron® network control bus.¹

Using an optional sensor integration module ([GLS-SIM](#) or [ZUMMESH-JBOX-SIM](#) for a Züm® J-Box, both sold separately), the [GLA-LDL-PC-0-10](#) 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 slider	1: OL: 3-300 fc (factory setting) 2: OL: 30-3000 fc 3: OL: 60-6000 fc 4: CL: 3-300 fc
Input ²	(1) Red flying lead; 24 VDC power input
Ground ²	(1) Black flying lead
Output ^{1,2}	(1) Orange flying lead; Light level control signal output; Provides 0-10 V 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	2 mA class 2 at 24 VDC
Cresnet Power Usage	~.1 W ¹

Environmental

Temperature	32° to 122° F (0° to 50° C) For indoor use only.
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Housing

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

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Dimensions

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

Weight

.011 lb (.05 kg)

Compliance

UL® Listed

Models

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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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