

# GLS-LDL-EX-BATT

## Battery-Powered Photosensor with infiNET EX®, Dual-Loop

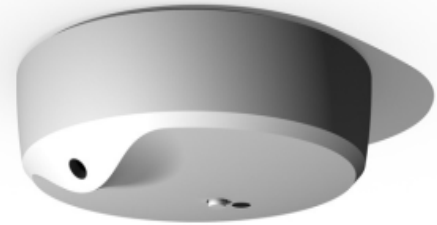
The GLS-LDL-EX-BATT is a battery-powered, wireless, dual-loop photosensor designed to provide superior natural light sensing and indoor light control in daylight harvesting applications. Two internal photocells—one for open-loop daylight sensing and one for closed-loop ambient light sensing—effectively cut costs while providing exceptional photosensing in residential, commercial, or retro-fit applications. The GLS-LDL-EX-BATT monitors natural daylight from windows and signals the lighting control system to raise or lower the lights according to natural light fluctuations, reducing energy usage while maintaining a consistent light level for a more efficient and comfortable work or living space. The photocells on the GLS-LDL-EX-BATT report analog values ranging from 0-65535 lux.

### Versatile Mounting

The battery-powered GLS-LDL-EX-BATT photosensor can be mounted in a variety of places due to its wireless design. The sensor can be mounted to drywall with an anchor and screw, to a drop ceiling or lighting fixture with a magnetic strip, or in a temporary location with adhesive tape. For ceiling mounts, the entire photosensor snaps into a mounting plate that can rotate up to 40 degrees after being secured in place, allowing its position to be fine-tuned after installation. The GLS-LDL-EX-BATT is a sleepy device that will not communicate with infiNET EX® technology unless a certain time or light threshold has been achieved. This ensures that the sensor does not draw on power unnecessarily and that the battery has a long lifespan.

### infiNET EX

Ultra-reliable infiNET EX wireless technology provides steadfast two-way RF communications throughout a residential or commercial structure without the need for physical control wiring. Employing a 2.4 GHz mesh network topology, each infiNET EX device functions as an expander, passing command signals through to every other infiNET EX device within range



(approximately 150 feet or 46 meters indoors), ensuring that every command reaches its intended destination without disruption.<sup>[1]</sup>

The GLS-LDL-EX-BATT communicates with a Crestron control system via an infiNET EX Wireless Gateway (model **CEN-RFGW-EX**, **DIN-AP3MEX**, or **MC3**<sup>[2]</sup>). Up to 100 infiNET EX devices may coexist on a single wireless network, and every non-battery-powered device that is added to the network effectively increases the range and stability of the entire network by providing multiple redundant signal paths.<sup>[1]</sup>

### SPECIFICATIONS

#### Sensing

Light Sensitivity: 0-65535 lux (0-6089 foot-candles), applies to both open- and closed-loop sensing

#### Wireless

RF Transceiver: infiNET EX® 2-way RF, 2.4 GHz ISM Channels 11-26 (2400 to 2483.5 MHz), default channel 15;  
Range (Typical): 150 ft (46 m) indoor, 250 ft (76 m) outdoor to nearest mesh network device(s);

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Subject to site-specific conditions and individual device capabilities <sup>[1]</sup>

Gateway: Requires an infiNET EX gateway <sup>[2]</sup>

### Controls & Indicators

(1) Pushbutton on front of device for acquire and touch-settable ID (TSID) functions and for adjusting sensitivity

(1) LED, green and red, indicates closed loop sensing and status during the acquiring process

### Environmental

Temperature: 32° to 104° F (0° to 40° C)

Humidity: 0% to 95% RH (non-condensing)

### Power Requirements

(2) AAA Lithium-ion batteries;

10 year battery life (under normal operating conditions);

### Enclosure

Housing: Plastic, white textured finish, with metal base

Mounting: Mounts to a ceiling mounting plate;

Mounts in a ~3-1/2 in (88 mm) diameter hole created by the provided cutout template;

### Dimensions

Height: 0.99 in (25 mm)

Diameter: 2.77 in (71 mm)

### Weight

1.20 oz (34 g)

### **ACCESSORIES**

#### **DIN-AP3MEX:**

#### **MC3:**

Notes:

1. Any infiNET EX device that provides expander functionality will effectively extend the range of the wireless network beyond the initial range of the gateway. Battery-powered infiNET EX devices, including the GLS-LDL-EX-BATT, do not provide expander functionality. Wireless networks composed predominantly of battery-powered devices may need additional infiNET EX expanders, such as the **CLW-EXPEX** or **GLA-EXPEX** (sold separately), or other non-battery-powered infiNET EX devices to ensure proper functionality of the network and battery life for the devices. Refer to the **Best Practices for Installation and Setup of Crestron RF Products**, Doc. #6689 for complete system design guidelines, or contact **Crestron True Blue Support** for further assistance.

2. Item(s) sold separately.

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](http://www.crestron.com/salesreps) or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: [patents.crestron.com](http://patents.crestron.com).

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