



Description

The GLS-LCCT SolarSync™ Photosensor measures the correlated color temperature (CCT) and luminosity (lux) of outdoor, natural sunlight. Measurements from the sensor are relayed to the Crestron® control system, which adjusts indoor lighting to match outdoor lighting conditions.

Additional Resources

Visit the product page on the Crestron website (www.crestron.com) for additional information and the latest firmware updates. Use a QR reader application on your mobile device to scan the QR image.



Installation

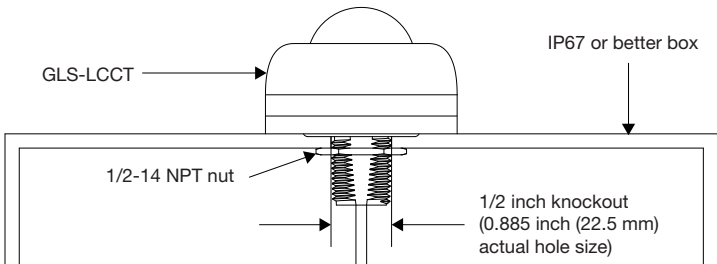
The GLS-LCCT is designed to be mounted outdoors (on a roof) or indoors (beneath a skylight). When determining the mounting location, provide the GLS-LCCT with an unobstructed view of the sky. Use a 1/2 inch knockout (0.885 inch (22.5 mm) actual hole size) when mounting.

WARNING: To avoid personal injury and equipment damage, consider the following when mounting the GLS-LCCT outdoors:

- Secure the GLS-LCCT to an IP67 or better J-box to ensure that the enclosure remains waterproof.
- Use a CSP-LSP Lighting Strike Protector to prevent personal injury during a lighting strike or damage to the control system and other devices on the Cresnet® network.
- Mount the CSP-LSP inside the building at the point where the Cresnet network cable enters the building. The CSP-LSP must be properly grounded.
- For installation, wiring, and operation of the CSP-LSP, refer to the CSP-LSP Installation and Operation Guide (see www.crestron.com/manuals).

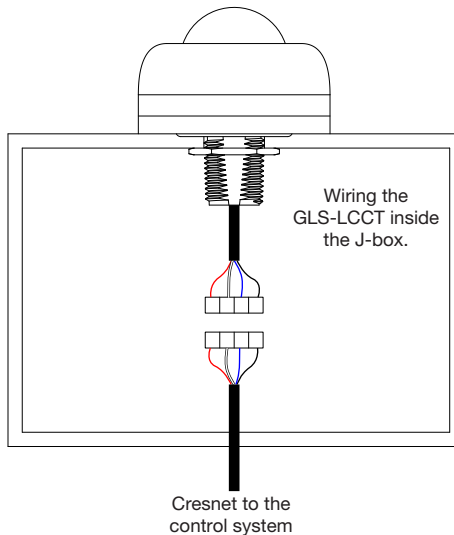
Install the GLS-LCCT:

1. Disconnect power to the system.
2. Seat the o-ring in the groove on the bottom of the sensor.
3. Thread the wire pigtail and the threaded nipple through the knockout. Ensure that the sensor sits flush with the J-box.
4. Secure the sensor to the J-box using a 1/2-14 NPT locknut. Tighten the locknut to ensure a proper seal with the J-box.



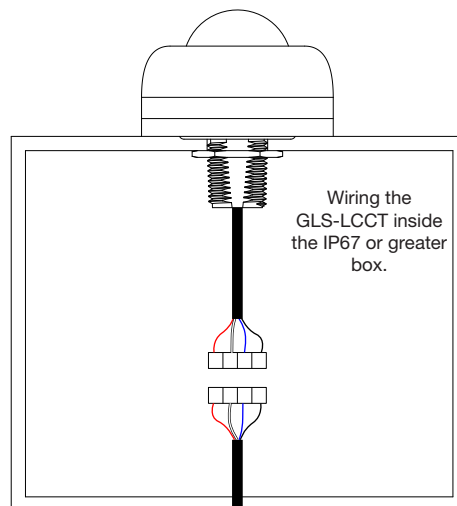
5. Make the Cresnet network connections inside the box using the provided connectors.
6. Reconnect power to the system.

Wiring Diagram - Indoor Mounting Location



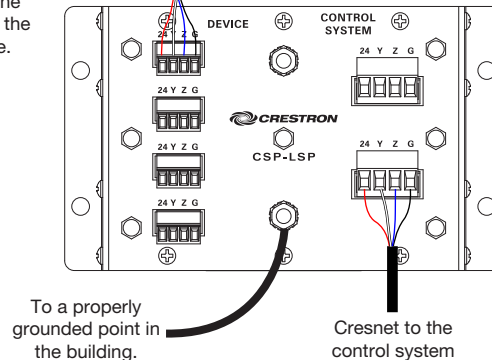
Terminal	Wire Color
24:	Red
Y:	White
Z:	Blue
G:	Black

Wiring Diagram - Outdoor Mounting Location



Terminal	Wire Color
24:	Red
Y:	White
Z:	Blue
G:	Black

Wiring the GLS-LCCT to the CSP-LSP inside the building space.



Operation

Set up the GLS-LCCT using Crestron Toolbox™ software. The GLS-LCCT has a bi-color (red/green) LED that is located inside the dome of the device. The LED flashes to identify the device during setup.

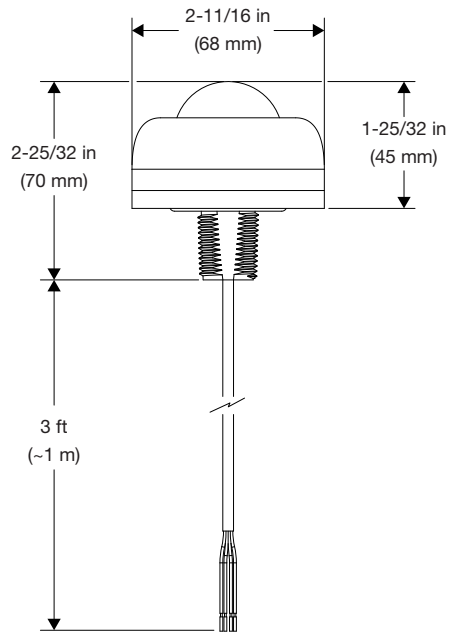
NOTE: Before using the GLS-LCCT, ensure the device is using the latest firmware. Check for the latest firmware for the GLS-LCCT at www.crestron.com/firmware. Load the firmware onto the GLS-LCCT using Crestron Toolbox™ software.

Specifications

SPECIFICATION	DETAILS
Power	
Power Consumption	70 mW typical; 5 W (208 mA @ 24 VDC) maximum when self-heating
Light Sensing	
Sensor Technology	XYZ chromatic white color sensor; measures color temperature and luminosity consistent with the CIE 1931 2° Standard Observer color coordinates
Correlated Color Temperature	2,000K to 25,000K*
Light Sensitivity	0 to 100,000 lux (0 to 9,290 foot-candles)
Field of View	360° semispherical
Environmental	
Temperature	-4° to 185 °F (-20° to 85 °C)
Humidity	10% to 90% RH (non-condensing)
Ingress Protection	IP67 rated per IEC/EN 60529, dust tight and waterproof
Heat Dissipation	17 Btu/h maximum

* The sensor is factory calibrated to achieve highly accurate correlated color temperature (CCT) measurements from 2,700K to 5,700K. Values outside this range may vary by a few hundred K or more.

Dimensions



As of the date of manufacture, the product has been tested and found to comply with specifications for CE marking.



The product warranty can be found at www.crestron.com/warranty.

The specific patents that cover Crestron products are listed at www.crestron.com/legal/patents.

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

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Specifications subject to change without notice.