

# GLS-LCCT

## Crestron SolarSync™ Outdoor Daylight and Color Temperature Sensor

The Crestron® GLS-LCCT SolarSync™ photosensor measures the correlated color temperature (CCT) and illuminance (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.

### Check the Box

Item	Qty
GLS-LCCT	1
Connector, 4-Pin, Male, White (P/N 2042613)	1
Connector, 4-Pin, Female, White (P/N 2042614)	1
Nut, 1/2 in.-14 (P/N 2047626)	1
O-ring, 1.64 in. OD, 1.36 in. ID, 50 Durometer (P/N 2052793)	1

### Installation

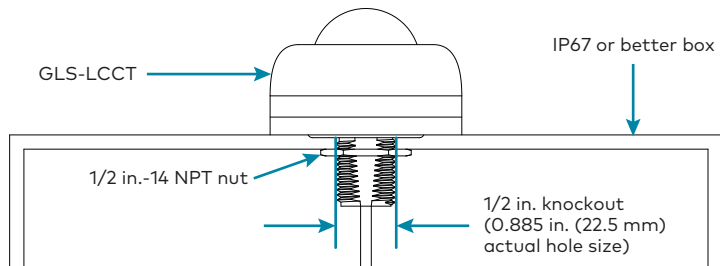
The GLS-LCCT is designed to be mounted outdoors (on a roof) or indoors (beneath a skylight). When determining the mounting location, provide the GLS-LCCT with an unobstructed view of the sky. Use a 1/2 in. knockout (0.885 in. (22.5 mm) actual hole size) when mounting.

**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 or damage to the control system and other devices on the Cresnet® network from a lighting strike.
- 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 at [www.crestron.com/manuals](http://www.crestron.com/manuals).

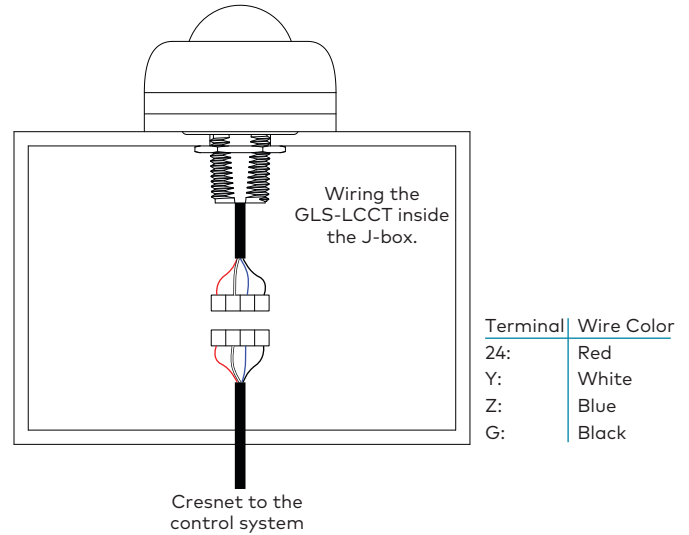
Install the GLS-LCCT:

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 in.-14 NPT locknut. Tighten the locknut to ensure a proper seal with the J-box.

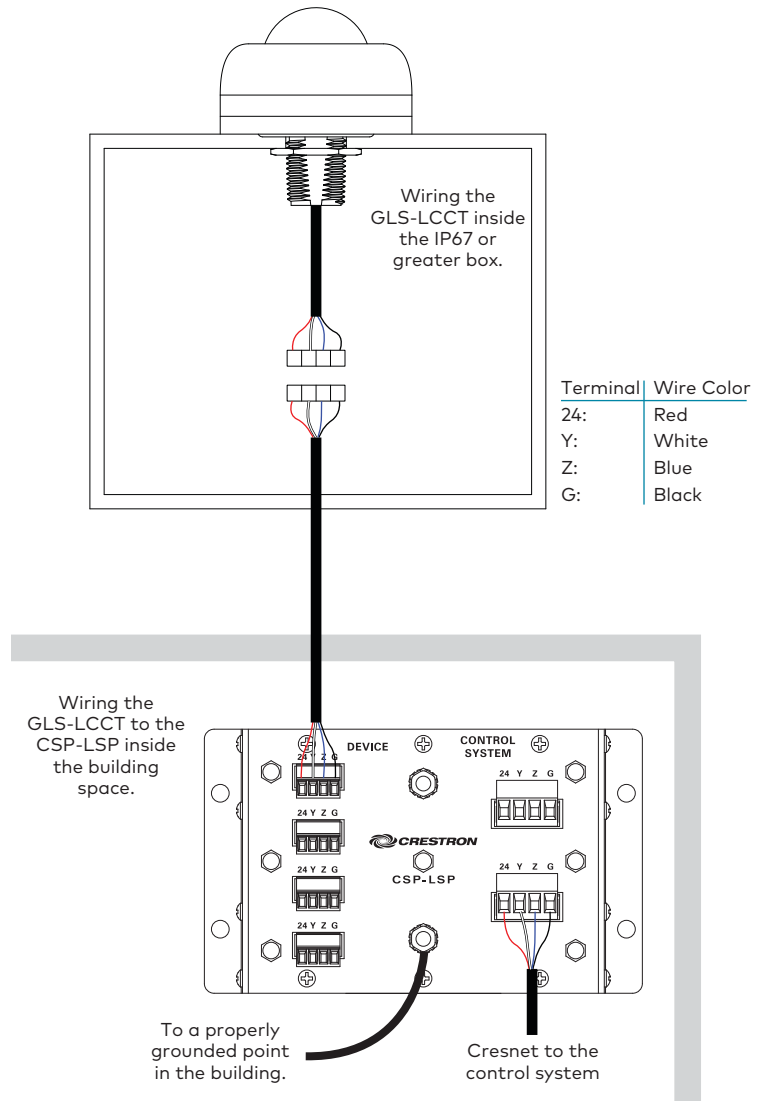


5. Make the Cresnet network connections inside the box using the provided connectors.
6. Reconnect power to the system.

### Wiring Diagram - Indoor Mounting Location



### Wiring Diagram - Outdoor Mounting Location



## 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.

The GLS-LCCT contains a thermostatically controlled internal heating element to prevent the accumulation of snow and ice on the dome.

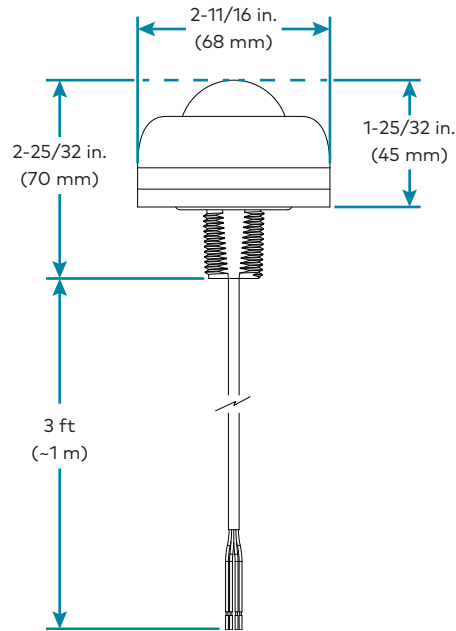
**NOTE:** Before using the GLS-LCCT, ensure the device is using the latest firmware. Check for the latest firmware for the GLS-LCCT at [www.crestron.com/firmware](http://www.crestron.com/firmware). Load the firmware onto the GLS-LCCT using Crestron Toolbox software.

## Technical Specifications

SPECIFICATION	DETAILS
Power Consumption	
Typical Power Usage	70 mW
Self Heating Power Usage	5 W (208 mA @ 24 VDC) maximum when self-heating
Light Sensing	
Sensor Technology	Multi-Spectral Sensing Engine; measures color temperature and illuminance 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 (noncondensing)
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



## Additional Information

Scan or click the QR code for detailed product information.



GLS-LCCT

## Compliance and Legal

**Original Instructions:** The U.S. English version of this document is the original instructions. All other languages are a translation of the original instructions.

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



### Federal Communications Commission (FCC) Compliance Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following conditions: (1) This device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

**CAUTION:** Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### Industry Canada (IC) Compliance Statement

CAN ICES-3 (B)/NMB-3(B)

The product warranty can be found at [www.crestron.com/warranty](http://www.crestron.com/warranty).

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

Certain Crestron products contain open source software. For specific information, please visit [www.crestron.com/opensource](http://www.crestron.com/opensource).

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Specifications subject to change without notice.