**Mounting to Octagon Back Box Installed Flush to Drop Ceiling**

1. Select the location for mounting of the sensor and proper masking for your application (Refer to Mounting/Masking Location Diagram).

2. Refer to the suggested mounting option illustrations below.

**Mounting to Drop Ceiling Using Screwed Rod**

1. Select the location for mounting of the sensor and proper masking for your application (Refer to Mounting/Masking Location Diagram).

2. Use the supplied threaded rod or other means to make a hole (1/2 to 1 inch [13 to 26 mm]) in the ceiling tile just large enough to pass the shaft of the threaded rod.

3. Insert the sensor wires through the flared end of the threaded rod. Position the sensor so that it is centered on the back of the drop ceiling and the sensor front cover is aligned with the drop ceiling surface.

4. Insert the flared end of the threaded rod into the opening in the bottom of the sensor and twist and lock the two pieces together.

5. Push the wires into the hole in the ceiling tile and insert the threaded rod until the sensor is flush with the ceiling.

6. Insert a screw into the hole in the included washer, then place the washer over the rod and secure in position using the included hex nut.

7. Connect low-voltage wires from the GLS-SIM or other Crestron® device as shown in the wiring diagram. Twist strands of each lead tightly and, with circuit conductors, push through (approximately 1 inch [26 mm]) in the ceiling tile just large enough to pass the shaft of the threaded rod.

8. Insert the sensor wires through the flared end of the threaded rod. Position the sensor so that it is centered on the back of the drop ceiling and the sensor front cover is aligned with the drop ceiling surface.

9. Restore power at the circuit breaker or fuse. INSTALLATION IS COMPLETE.

**TYPICAL APPLICATION DIAGRAMS**

To ensure correct processing of the sensor’s output from all interface devices (other than the GLS-SIM), the SIMPL program for the control processor must disable the pull-up resistors at the inputs of the sensor. If the sensor is used with any interface device other than the SIMPL program, the sensor must be configured with pull-up resistors built-in to the sensor input connector. This is accomplished by selecting the “pull-up” digital input signal to a “1.” The “0” input can also be used in logical logic such as a NOT symbol to generate a logic “high” when the room is occupied.

**WIRING DIAGRAMS**

Connecting Sensors to the GLS-SIM

To Control

Cresnet® DIN-1010 DIN-1020 DIN-IDNI DIN-1030 DIN-IDNI DIN-1040 DIN-IDNI

**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.

**Setup**

- **Network Wiring**
  - When using the Crestron® network, consider the following:
    - Use Crestron Certified Wire.
    - Use Crestron power supplies for Crestron equipment.
    - Provide sufficient power to the system.

- **Preparing and Connecting Wires**
  - Strip the ends of the wires to 0.5 inch (13 mm). Use care to avoid nicking the conductors. Twist together the ends of the wires that share a connection and tin the twisted connection. Apply solder only to the ends of the twisted wires. Avoid leaving any bare wires up the wires or the end becomes brittle.

**Mounting/Masking Location Diagram**

The supplied masks mount in the sensor front cover. The half mask is supplied pre-mounted to demonstrate the mounting method. The pre-mounted mask has been 30° removable segments that allow you to mask particular areas to prevent undesirable triggering from affecting the sensor operation. The following illustrations provide typical application examples.

**Tip for Use**

 Slovenia, 250, 2010

**Crestron Electronics, Inc.**

Operations & Installation Guide - DGC-0719 (622512)

15 Vohs Drive - Rockleigh, NJ 07647
Tel: 888.CRESTRON
Fax: 201.767.7736
www.crestron.com

This product is listed to applicable UL Standards and requirements by Underwriters Laboratories Inc.

**Product Dimensions**

Height: 1.00” Width: 2.00” Depth: 2.00”

**Supplied with**

Wiring Diagrams for model GLS-SIM

**Model/Feature Basics**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Current Consumption</th>
<th>Operating Frequency</th>
<th>Coverage</th>
<th>Suggested Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLS-OCT-101 10-12 Dual Technology</td>
<td>10-12 Dual Technology</td>
<td>30mA</td>
<td>40kHz</td>
<td>1000 ft (49 m)</td>
<td>Mount in center of room</td>
</tr>
<tr>
<td>GLS-OCT-101 12-20 Dual Technology</td>
<td>12-20 Dual Technology</td>
<td>40mA</td>
<td>40kHz</td>
<td>400 ft (122 m)</td>
<td>Mount in center of room</td>
</tr>
<tr>
<td>GLS-OCT-203 2-10 Dual Technology</td>
<td>2-10 Dual Technology</td>
<td>30mA</td>
<td>40kHz</td>
<td>300 ft (91 m)</td>
<td>Mount in center of room</td>
</tr>
</tbody>
</table>

**INSTALLATION INSTRUCTIONS**

1. Select the location for mounting of the sensor and proper masking for your application (Refer to Mounting/Masking Location Diagram).

2. Refer to the suggested mounting option illustrations below.

3. Remove the back cover of the sensor. Hold the back cover and body of the sensor and rotate until the two arrows line up, and pull them apart.

4. Insert the flared end of the threaded rod into the opening in the bottom of the sensor and twist and lock the two pieces together.

5. Push the wires into the hole in the ceiling tile and insert the threaded rod until the sensor is flush with the ceiling.

6. Insert a screw into the hole in the included washer, then place the washer over the rod and secure in position using the included hex nut.

7. Connect low-voltage wires from the GLS-SIM or other Crestron® device as shown in the wiring diagram. Twist strands of each lead tightly and, with circuit conductors, push through (approximately 1 inch [26 mm]) in the ceiling tile just large enough to pass the shaft of the threaded rod.

8. Insert the sensor wires through the flared end of the threaded rod. Position the sensor so that it is centered on the back of the drop ceiling and the sensor front cover is aligned with the drop ceiling surface.

9. Restore power at the circuit breaker or fuse. INSTALLATION IS COMPLETE.

**TYPICAL APPLICATION DIAGRAMS**

To ensure correct processing of the sensor’s output from all interface devices (other than the GLS-SIM), the SIMPL program for the control processor must disable the pull-up resistors at the inputs of the sensor. If the sensor is used with any interface device other than the SIMPL program, the sensor must be configured with pull-up resistors built-in to the sensor input connector. This is accomplished by selecting the “pull-up” digital input signal to a “1.” The “0” input can also be used in logical logic such as a NOT symbol to generate a logic “high” when the room is occupied.

**WIRING DIAGRAMS**

Connecting Sensors to the GLS-SIM

To Control

Cresnet® DIN-1010 DIN-1020 DIN-IDNI DIN-1030 DIN-IDNI DIN-1040 DIN-IDNI

**Tip for Use**

Slovenia, 250, 2010
**Adjustment Knob Settings**

<table>
<thead>
<tr>
<th>COLOR</th>
<th>FUNCTION</th>
<th>DEFAULT SETTING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>Adjusts the ultrasonic range (400-5000 LUX)</td>
<td>50%</td>
</tr>
<tr>
<td>Red</td>
<td>Adjusts the infrared range (0-300 LUX)</td>
<td>75%</td>
</tr>
<tr>
<td>Black</td>
<td>Adjusts the delayed off time</td>
<td>30 sec.</td>
</tr>
</tbody>
</table>

**Field-of-View Ranges - GLS-OCT-D-1000**

<table>
<thead>
<tr>
<th>Field-of-View Ranges - GLS-OCT-D-1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIN</td>
</tr>
<tr>
<td>5 m</td>
</tr>
</tbody>
</table>

**Field-of-View Ranges - GLS-OCT-D-2000**

<table>
<thead>
<tr>
<th>Field-of-View Ranges - GLS-OCT-D-2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIN</td>
</tr>
<tr>
<td>0335.5 5.5 991 1115 1510 20232 325.225.22</td>
</tr>
</tbody>
</table>

**Field-of-View Ranges - GLS-OCT-D-500**

<table>
<thead>
<tr>
<th>Field-of-View Ranges - GLS-OCT-D-500</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIN</td>
</tr>
<tr>
<td>11 1510 20232 325.225.22</td>
</tr>
</tbody>
</table>

**Adjustment Knob Settings**

These tables (below and in the next column) and the “Minimum and Default Settings” illustration define the settings of the adjustment knobs and the DIP switches.

**Adjustment Knob Settings**

1. Remove the cover from the sensor.
2. Make note of the position of the red and green knobs. Rotate the red and green knobs fully CCW and enter the sensor’s Test mode as described above.
3. Rotate the blue knob fully CCW.
4. Wait for the lights to turn off.
5. Rotate the red knob fully CW.
6. Slowly rotate the blue knob clockwise until the lights turn on. This is the correct setting.
7. Return the red and green knobs to their original positions.
8. Replace the cover. Photocell level setting is complete.

**TROUBLESHOOTING**

The following table provides corrective action for possible trouble situations. If further assistance is required, please contact a Crestron customer service representative.

**Possible Cause**

- Lights do not turn ON
- Circuit breaker or fuse has tripped.
- Reset circuit breaker or replace fuse.

**Corrective Action**

- Connections between DIP switch and other interface device or power wiring diagram.
- Verify that all connections were made to the wiring diagrams in this document.
- GLS-IRM (or other interface device) set to incorrect LED.
- Check that the Next ID matches the one expected by the control system (or GLS-C6).
- GLS-IRM DIP switch.
- Refer to wiring diagrams on page 11 of this document for appropriate settings.
- Incorrect programming in controller system.
- Check controller system and user setup.
- Lights stay ON.
- Constant motion.
- Test, reduce red and green knobs by 15% to remove motion source. If no change, more sensor.
- Incorrect sensor can’t turn ON.
- Test, put sensor in timer test mode and walk/hallway. If lights continue to turn ON, more sensor.
- Incorrect programming in controller system.
- Check controller system and user setup.
- Lights remain OFF.
- Timer setting too high.
- Test, check switch settings. Typical setting is 5 minutes.

**Return and Warranty Policies**

**Merchandise Returns / Repair Service**

1. No merchandise may be returned, exchanged or service without prior authorization from CRESTRON. To return warranty service for CRESTRON products, contact the appropriate Crestron dealer or contact the factory and request an RMA (Return Merchandise Authorization) number. Include a note specifying the nature of the problem, name and phone number of contact person, RMA number and return address.
2. Products will be returned to customer with proof of service at a service center or with GRS-RTU Return Evaluation Report. Service fees may be charged at the discretion of the service center. No additional service will be provided without prior authorization from CRESTRON. If a service center is authorized to determine the problem, it will be returned prepaid to customer.
3. All products are warranted against defects in material and workmanship for a period of one (1) year from the date of purchase. Electronic components such as transistors, diodes and integrated circuits are warranted for a period of three (3) years from the date of purchase from CRESTRON, with the following exceptions: diode wires and any other wiring or circuit-making parts, circuit cards, power supplies (including power supplies containing mercury) and transformers. The warranty extends to products purchased directly from CRESTRON or an authorized CRESTRON dealer.

**McCormick Electronics, Inc. warrants its product to be free from defects in manufacturing and workmanship for a period of (5) years from the date of purchase. CRESTRON products, acquire from proper CRESTRON dealer, are warranted for a period of (3) years from the date of purchase from CRESTRON, with the following exceptions: diode wires and any other wiring or circuit-making parts, circuit cards, power supplies (including power supplies containing mercury) and transformers. The warranty extends to products purchased directly from CRESTRON or an authorized CRESTRON dealer.

This warranty shall not be binding to the terms of the warranty if the product has been used in any application other than that for which it was intended. No responsibility is assumed because of any damage to the system (or CLS-C6).

**Crestron Electronics, Inc. warrants its products to be free from defects in material and workmanship for a period of one (1) year from the date of purchase from Crestron Electronics, Inc. for any equipment covered by a Crestron warranty. This warranty for Crestron Electronics, Inc. products covers the product itself as well as any system or equipment for which the product is intended to be used. Crestron Electronics, Inc. does not warrant the system or equipment itself or any product not manufactured by Crestron Electronics, Inc. This warranty shall be the sole and exclusive remedy of the original purchaser. In no event shall Crestron Electronics, Inc. be held liable for incidental or consequential damages of any kind (property or economic) arising from the use of this equipment. Crestron does not take any responsibility for any damages to the network, without charge for repair or tears. Required or replaced equipment and parts shipped under this warranty shall be covered only by the unexpired portion of the warranty.

**Crestron**

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