

# GLS-OIR-C-CN

## Passive Infrared Occupancy Sensor with Cresnet<sup>®</sup>, 2000 sq ft

- > Ceiling-mount occupancy sensor
- > Passive infrared motion detection technology
- > 360 degree coverage pattern
- > 2,000 sq ft coverage area
- > Discreet, low-profile appearance
- > Extremely accurate and reliable sensing
- > Fully digital circuitry for low cost and high reliability
- > Built-in ambient light recognition
- > External photosensor input
- > Control system communications via Cresnet<sup>®</sup>
- > Grace Occupancy feature

The Crestron<sup>®</sup> GLS-OIR-C-CN sensor features passive infrared (PIR) technology for occupancy detection in a large room or space and delivers a powerful and cost-effective solution for reducing energy consumption and enhancing the functionality of lighting and environmental systems. The GLS-OIR-C-CN is a low-profile, ceiling-mounted occupancy sensor designed for areas up to 2000 square, making it great for use in conference rooms, hallways, and private offices. Reliable Cresnet<sup>®</sup> wired communications directly connects the sensor to a Crestron control system for integrated control of lighting, climate, and other devices in the room.

### Passive Infrared Occupancy Sensing

PIR sensors utilize a highly sensitive specialized lens to divide the field-of-view into sensor zones. When a person passes into or out of a zone, the sensor detects the motion and switches the lights on. The lights will remain on for as long as motion is detected in the sensor zones. PIR sensing achieves dependable motion detection and provides superior immunity to false triggering from vibrations, inanimate objects, or movement in an adjacent corridor. Sensitivity is adjustable for optimal performance.

### Walk-Through Mode

This sensor detects momentary occupancy and automatically turns the lights off after 90 seconds with the built-in Walk-Through feature, reducing unnecessary energy consumption.

### Grace Occupancy Feature

When the lights turn off in a room programmed to vacancy only mode, a 15-second grace period starts during which the room lights can be turned on again by simply waving a hand to trigger the sensor.

### Ambient Light Recognition

A built-in photosensor detects the amount of ambient light in the room. When enabled, the photosensor can override the occupancy sensor's signal to turn on the lights if the ambient light level is above a set threshold, preventing lights from turning on when there is sufficient daylight in the room and also performing daylight harvesting and dimming when appropriate. Programming logic must be included to utilize this override feature.



### Versatile Installation

The GLS-OIR-C-CN achieves a discreet, nearly hidden appearance when installed on a typical drywall or droptile ceiling. Hardware is included for fast and simple mounting in a standard 4-inch octagon box or in a hole created with the help of the provided cutout template. The sensor includes a built-in Cresnet connection for data and power and an input for an optional external photosensor. For easy wiring, the 5-pin Cresnet connector is detachable.

### Cresnet

The GLS-OIR-C-CN uses the dependable Cresnet wired network for communication between devices. Cresnet provides a simple solution for configuring and wiring keypads and sensors as part of any complete Crestron system. Cresnet is the communications backbone for Crestron lighting dimmers, keypads, shades, thermostats, and many other devices. This flexible 4-wire bus provides data communications and 24 Volts DC power for all of the devices on the Cresnet network.

### IR Remote

A variety of parameters can be set for the GLS-OIR-C-CN by using the [GLS-REMOTE-ODT/OIR](#) remote (sold separately). This IR remote eliminates the need for a ladder when commissioning or setting up any system. The installer can simply stand underneath the sensor and use the remote to complete setup functions and fine-tune the sensor's settings after installation. The remote provides the following functionality:

- Adjusts the sensitivity for vacancy and occupancy states separately
- Enables or disables Walk-Through mode
- Changes settings for Timeout feature
- Turns LEDs ON/OFF during normal operation
- Sets or changes the Cresnet ID
- Uses Force Vacancy or Factory Reset

## SPECIFICATIONS

### Sensing

**Sensor Technology:** Passive infrared  
**Ambient Light Recognition:** Built-in photosensor (0-1000 lux)  
**Coverage Area:** 2,000 sq ft  
**Coverage Pattern:** 360 degrees

### LED Indicators

**IR:** (1) Red LED, indicates PIR detection

### Controls

(1) Pushbutton located behind the front cover for testing the unit

### IR Remote (Sold Separately)

#### Parameters and Settings Available Via IR Remote:

- Separate occupancy and vacancy sensitivity settings
- Timeout (30s, 2m, 5m, 10m, 15m, 30m)
- Walk-Through mode “Short Timeout” (Enable/Disable)
- LEDs (Enable/Disable)
- PIR sensitivity (High, Med, Low, OFF), with the option to set separate occupancy and vacancy settings
- US sensitivity (High, Med, Low, OFF), with the option to set separate occupancy and vacancy settings
- US detection (Side A only, Side B only, Both)
- ID of sensor
- Factory Reset
- Force Vacancy
- (4) Custom buttons for future additional features

### Connections

**EXT:** (1) 5-pin 3.5 mm detachable terminal block; Cresnet® slave port and external photosensor input

### Environmental

**Temperature:** 32° to 104° F (0° to 40° C)  
**Humidity:** 10% to 90% RH (non-condensing)

### Power Requirements

**Current Consumption:** 45 mA at 24 Volts DC  
**Cresnet Power Usage:** 1 Watt

### Enclosure

**Housing:** Plastic, white  
**Mounting:** Mounts to a 4” (102 mm) octagon box or ~3-1/2” (88 mm) diameter hole created by provided cutout template; Includes mounting screws and integral toggle clamps; A 1-1/2” (38 mm) minimum mounting depth is recommended

### Dimensions

**Diameter:** 4.80 in (122 mm)  
**Depth:** 2.30 in (59 mm) overall, 0.97 in (25 mm) exposed

### Weight

5.1 oz (144 g)

### Standards & Certifications

UL60730-1, FCC, CE, C-Tick, IC, Plenum Rated, California Title 24 Code

## MODELS & ACCESSORIES

### Available Models

**GLS-OIR-C-CN:** Passive Infrared Occupancy Sensor with Cresnet®, 2000 sq ft

### Available Accessories

**GLS-REMOTE-ODT/OIR:** IR Remote for GLS-ODT-C-CN & GLS-OIR-C-CN

**GLSA-ODT/OIR-FP-500:** Occupancy Sensor Lens, 500 sq ft

**CRESNET-NP-TL-B250:** Cresnet® Control Cable, non-plenum, teal, 250 ft box

**CRESNET-NP-BK-B500:** Cresnet® Control Cable, non-plenum, black, 500 ft box

**CRESNET-NP-OR-B500:** Cresnet® Control Cable, non-plenum, orange, 500 ft box

**CRESNET-NP-TL-B500:** Cresnet® Control Cable, non-plenum, teal, 500 ft box

**CRESNET-NP-TL-SP500:** Cresnet® Control Cable, non-plenum, teal, 500 ft spool

**CRESNET-NP-TL-SP1000:** Cresnet® Control Cable, non-plenum, teal, 1000 ft spool

**CRESNET-P-BK-SP500:** Cresnet® Control Cable, plenum, black, 500 ft spool

**CRESNET-P-OR-SP500:** Cresnet® Control Cable, plenum, orange, 500 ft spool

**CRESNET-P-TL-SP500:** Cresnet® Control Cable, plenum, teal, 500 ft spool

**CRESNET-P-TL-SP1000:** Cresnet® Control Cable, plenum, teal, 1000 ft spool

#### Notes:

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).

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

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## CAD DRAWING

