

# GLS-OIR-C-NS

## Passive Infrared Ceiling Mount Occupancy Sensor

- > Ceiling-mount occupancy sensor for use with standalone lighting systems
- > Passive infrared motion detection technology
- > 360 degree coverage pattern
- > 2,000 sq ft coverage area
- > Versiport or digital input port connection
- > Discreet, low-profile appearance
- > Extremely accurate and reliable sensing
- > Fully digital circuitry for low cost and high reliability
- > Crestron® control system interface via GLS-SIM (sold separately)

The Crestron® GLS-OIR-C-NS 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 standalone lighting systems. The GLS-OIR-C-NS is a low-profile, ceiling-mounted occupancy sensor designed for areas up to 2,000 square feet, making it great for use in conference rooms, hallways, and private offices. The sensor can connect directly to and be controlled by standalone lighting systems such as the [GLPP](#), [GLPAC](#), or [GL-IPAC-SW8](#). The [GLS-SIM](#) Sensor Integration Module provides an interface with a Crestron control system via Cresnet®.

### 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.

### Versatile Installation

The GLS-OIR-C-NS 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.

### Cresnet Option<sup>[1]</sup>

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. Using the optional [GLS-SIM](#) Sensor Integration Module, the GLS-OIR-C-NS becomes a full-featured Cresnet device.



### IR Remote

A variety of parameters can be set for the GLS-OIR-C-NS 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.

## SPECIFICATIONS

### Sensing

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**Sensor Technology:** Passive infrared  
**Coverage Area:** 2,000 sq ft  
**Coverage Pattern:** 360 degrees

### LED Indicators

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

### IR Remote (Sold Separately)

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#### 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

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## Connections

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(1) 5-pin 3.5 mm detachable terminal block;  
16 AWG maximum wire width supported, includes the following terminals:

**+24V:** DC power input

**OCC:** Occupancy sensor control signal output; provides 24 Volts DC high logic signal when occupancy is detected (PIR must sense occupancy to provide 24 Volt signal, if room is transition from a vacant to occupied state; After initial occupancy is detected, further PIR detection will trigger the 24 Volt signal to maintain the occupied state);

Short circuit protected;

Connects to a [GLS-SIM](#) Integration Module (sold separately) on any Crestron® control system

**NC:** Unused

**G:** Ground

**IR:** IR single direction, transmits information read from remote by IR receiver on sensor

## Environmental

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

**Humidity:** 10% to 90% RH (non-condensing)

## Power Requirements

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**Current Consumption:** 45 mA at 24 Volts DC

**Cresnet® Power Usage:** 1 Watt

## Enclosure

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**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

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**Diameter:** 4.80 in (122 mm)

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

## Weight

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5.1 oz (144 g)

## Standards & Certifications

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

## MODELS & ACCESSORIES

### Available Models

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**GLS-OIR-C-NS:** Passive Infrared Ceiling Mount Occupancy Sensor

### Available Accessories

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**GLS-REMOTE-ODT/OIR:** IR Remote for GLS Occupancy Sensors

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

**GLS-SIM:** Sensor Integration Module

Notes:

1. The GLS-OIR-C-NS requires a GLS-SIM for Cresnet communications.

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

