

Passive Infrared Ceiling Mount Occupancy Sensor

- > Ceiling-mount occupancy sensor for standalone lighting systems
- > Passive infrared motion detection affords immunity to false triggering
- > Works with GLPP, GLPAC, and GL-IPAC-SW8
- > Connect via a Versiport or digital input port
- > Discreet, low-profile appearance blends nicely with installation surface
- > Extremely accurate and reliable sensing
- > Fully digital circuitry for low cost and high reliability
- > Connect to a GLS-SIM for control system interface via Cresnet®

The GLS-OIR-C-NS is a low-profile, ceiling-mount occupancy sensor that delivers a powerful and cost-effective solution for reducing energy costs and enhancing the functionality of standalone lighting systems. It is designed for small to medium-sized areas up to 2000 square feet to detect when the room is occupied, making it great for use in conference rooms, hallways, and private offices. Passive infrared motion sensing affords excellent reliability for control of lighting, climate control, and other devices in the room, while also providing superior immunity to false triggering. For power and control, the GLS-OIR-C-NS can connect directly to a [GLPP](#), [GLPAC](#), or [GL-IPAC-SW8](#). The [GLS-SIM](#) Sensor Integration Module gives the option to interface with a control system via Cresnet®.

Passive Infrared Occupancy Sensing

Passive infrared technology works by sensing temperature changes or movements between different windows that the sensor lens projects, achieving dependable motion detection with superior immunity to false triggering from vibrations, inanimate objects, or movement in an adjacent corridor. Sensitivity is adjustable for optimum performance.

Walk-Through Mode

The GLS-OIR-C-NS features a walk-through mode that provides specialized behavior in instances of brief occupancy, turning lights off quickly when a person enters and exits the room within a period of 90 seconds.

Versatile Installation

The GLS-OIR-C-NS was designed to achieve a discreet, nearly hidden appearance when installed on a typical drywall or droptile ceiling. Hardware is included for fast and simple mounting in a hole created by the provided cutout template or to a standard 4-inch octagon box.

Cresnet Option^[1]

Cresnet provides a simpler solution for configuring and wiring sensors as part of any complete Crestron® system. Cresnet is the communications backbone for Crestron lighting dimmers, keypads, touch screens, 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, streamlining the total lighting system.



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 to commission or set up any system. The installer can simply stand underneath the sensor and use the remote to complete setup functions and fine tune sensor settings after installation.

SPECIFICATIONS

Sensing

Sensor Technology: Passive Infrared
Coverage Area: 2000 sq. ft.
Coverage Pattern: 360 degrees

LED Indicators

IR: (1) Red LED, PIR detection

IR Remote (sold separately)

Parameters and settings available through 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;
Factory Reset;
Force Vacancy;
4 Custom buttons (for future additional features)

Connections

(1) 5-pin 3.5mm 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 V signal, if room is transition from a vacant to occupied state; after initial occupancy is detected, further PIR detection will trigger the 24 V 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

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

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

Power Requirements

Current Consumption: 45 mA @ 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-NS: Passive Infrared Ceiling Mount Occupancy Sensor

Available Accessories

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

GLS-SIM: Sensor Integration Module

Notes:

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

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 or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

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CAD DRAWING

