

GLS-OIR-C-CN

Passive Infrared Occupancy Sensor with Cresnet®, 2000 Sq. Ft.

- > Ceiling-mount occupancy sensor
- > Passive infrared motion detection affords immunity to false triggering
- > Discreet, low-profile appearance blends nicely with installation surface
- > Extremely accurate and reliable sensing
- > Fully digital circuitry for low cost and high reliability
- > Built-in ambient light recognition
- > External photo sensor input eliminates the need for a GLS-SIM
- > Control system interface via Cresnet®
- > Grace Occupancy feature

Crestron Green Light® sensors deliver a powerful and cost-effective solution for reducing energy costs and enhancing the functionality of lighting and environmental systems. The GLS-OIR-C-CN is a low-profile, ceiling-mount occupancy sensor 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. Cresnet® connectivity allows for direct connection to a Crestron® control system without requiring any add-on modules or power supplies.

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-CN 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.

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 photocell is included for detection of ambient light in the room. When enabled, the photocell can override the occupancy sensor 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 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. It includes a built-in Cresnet connection for data and power, with an input for an optional external photo sensor. For easy wiring, the 5-pin Cresnet connector is detachable.

Cresnet®

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, 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. Additional features enable quick and easy setup for use with a Crestron IPAC or iLux® system.

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 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:

- Adjust the sensitivity for vacancy and occupancy states separately
- Enable or disable Walk-Through mode
- Change settings for Timeout feature
- Turn LEDs ON/OFF during normal operation
- Set or change the Cresnet ID
- Use force vacancy or factory reset

SPECIFICATIONS

Sensing

Sensor Technology: Passive Infrared

Ambient Light Recognition: Built-in photocell (0-1000 lux)

Coverage Area: 2000 sq. ft.

Coverage Pattern: 360 degrees

LED Indicators

IR: (1) Red LED, indicates infrared motion

Controls

Test Button (behind cover)

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;
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 input for photo 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-CN: Passive Infrared Occupancy Sensor with Cresnet[®]

Available Accessories

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

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-YL-B500: Cresnet[®] Control Cable, non-plenum, yellow, 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-YL-SP500: Cresnet[®] Control Cable, plenum, yellow, 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 or by calling 800-237-2041.

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

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