

GLS-ODT-C-NS

Dual-Technology Ceiling Mount Occupancy Sensor

- > Ceiling-mount occupancy sensor for use with standalone lighting systems
- > Dual-technology motion detection
- > 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-ODT-C-NS sensor features accurate, dual-technology 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-ODT-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 large spaces such as auditoriums, warehouses, and building lobbies. 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 the Cresnet® network.

Dual-Technology Occupancy Sensing

Achieving consistent and dependable occupancy sensing is accomplished using a combination of ultrasonic and passive infrared (PIR) sensing technologies. Ultrasonic motion detection is highly sensitive to small movements over a large area, while passive infrared sensing ensures superior immunity to false triggers from vibrations, inanimate objects, or movement in an adjacent corridor. Ultrasonic motion detection can be turned on for Side A, Side B, or both sides of the occupancy sensor to avoid false occupancy readings when the sensor is facing a hallway or doorway. The GLS-ODT-C-NS provides independent sensitivity adjustment for each sensor type for optimum performance in any space.

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-ODT-C-NS achieves a discreet, nearly hidden appearance when installed on a typical drywall or drop tile 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^[1]

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-ODT-C-NS becomes a full-featured Cresnet device.

IR Remote

A variety of parameters can be set for the GLS-ODT-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

Sensor Technology: Passive infrared and ultrasonic (40 kHz)

Coverage Area: 2,000 sq ft

Coverage Pattern: 360 degrees

LED Indicators

IR: (1) Red LED, indicates PIR detection

Ultrasonic: (1) Green LED, indicates ultrasonic detection

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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

(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 (both PIR and US must sense occupancy to provide 24 Volt signal, if room is transitioning from a vacant to occupied state; After initial occupancy is detected, either PIR or US 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

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

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

Power Requirements

Current Consumption: 60 mA at 24 Volts DC

Cresnet Power Usage: 1.5 Watts

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-ODT-C-NS: Dual-Technology Ceiling Mount Occupancy Sensor

Available Accessories

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-ODT-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 or by calling 800-237-2041.

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

Certain Crestron products contain open source software. For specific information, visit www.crestron.com/opensource.

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CAD DRAWING

