

# GLS-ODT-C-NS

## Occupancy Sensor, Dual Technology, Ceiling Mount, Non-system



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

The [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 lighting and environmental 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 connects directly to a contact closure in a standalone lighting system to provide occupancy and vacancy status. For integration with a Crestron control system using the Cresnet® network, add a sensor integration module ([GLS-SIM](#), sold separately).

### Dual-Technology Occupancy Sensing

Achieving consistent and dependable occupancy sensing is accomplished using a combination of ultrasonic (US) 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

Walk-through mode turns off the lights quickly when a room is occupied for a short period of time. When Walk-through mode is enabled and a room is occupied for 90 seconds or less, the lights will turn off 60 seconds after the room is vacated.

### 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 in. octagon box or in a hole created with the help of the provided cutout template.

### Cresnet Option

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 24VDC power for all of the devices on the Cresnet network. Using the [GLS-SIM](#) Sensor Integration Module (sold separately), 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

# GLS-ODT-C-NS

## Occupancy Sensor, Dual Technology, Ceiling Mount, Non-system

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 all of 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

|                                    |                                                                   |
|------------------------------------|-------------------------------------------------------------------|
| <b>Motion Detection Technology</b> | Passive infrared (PIR) motion detection; Ultrasonic (US) (40 kHz) |
| <b>Coverage Area</b>               | 2,000 sq ft                                                       |
| <b>Coverage Pattern</b>            | 360°                                                              |

#### LED Indicators

|                   |                                                           |
|-------------------|-----------------------------------------------------------|
| <b>PIR</b>        | (1) Red LED;<br>Lights to indicate PIR detection          |
| <b>Ultrasonic</b> | (1) Green LED;<br>Lights to indicate ultrasonic detection |

#### IR Remote (Sold Separately)

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

- Separate occupancy and vacancy sensitivity settings
- (1) Pushbutton located behind the front cover for testing the unit
- 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

- 5-pin 3.5 mm detachable terminal block;  
16 AWG maximum wire width supported, includes the following terminals
- (1) Crestron secondary port:**
- |             |                |
|-------------|----------------|
| <b>+24V</b> | DC power input |
|-------------|----------------|

# GLS-ODT-C-NS

## Occupancy Sensor, Dual Technology, Ceiling Mount, Non-system

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OCC | Occupancy sensor control signal output; Provides 24VDC high logic signal when occupancy is detected (both PIR and US must sense occupancy to provide 24V signal if room is transitioning from a vacant to occupied state; After initial occupancy is detected, either PIR or US detection will trigger the 24V 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                                                                                                                                                                                                                                                                                                                                                                                       |

### Power Requirements

|                     |              |
|---------------------|--------------|
| Current Consumption | 60mA @ 24VDC |
| Cresnet Power Usage | 1.5 W        |

### Environmental

|             |                               |
|-------------|-------------------------------|
| Temperature | 32° to 104°F (0° to 40°C)     |
| Humidity    | 10% to 90% RH (noncondensing) |

### Construction

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

### Dimensions

|          |                                                                                     |
|----------|-------------------------------------------------------------------------------------|
| Diameter | 4.80 in. (122 mm)                                                                   |
| Depth    | 2.29 in. (58 mm) overall; Projects 0.97 in. (25 mm) from the surface when installed |

### Weight

0.7 lb (309 g)

### Compliance

UL® Listed in the US and Canada, CE, FCC Class B, CAN ICES-3(B)/NMB-3(B)

To search for product certificates, refer to [support.crestron.com/app/certificates](https://support.crestron.com/app/certificates).

### Model

#### GLS-ODT-C-NS

Occupancy Sensor, Dual Technology, Ceiling Mount, Non-system

### Available Accessories

For a list of available accessories, visit the [GLS-ODT-C-NS](https://www.crestron.com/Products/Accessories/Accessories-for-GLS-ODT-C-NS) product page.

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at [www.crestron.com/How-To-Buy/Find-a-Representative](https://www.crestron.com/How-To-Buy/Find-a-Representative) or contact us for additional information by visiting [www.crestron.com/contact/our-locations](https://www.crestron.com/contact/our-locations) for your local contact.

The original language version of this document is U.S. English. All other languages are a translation of the original document.

The product warranty can be found at [www.crestron.com/warranty](https://www.crestron.com/warranty).

The specific patents that cover Crestron products are listed online at [patents.crestron.com](https://patents.crestron.com).

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

Crestron, the Crestron logo, and Cresnet are either trademarks or registered trademarks of Crestron Electronics, Inc. in the United States and/or other countries. UL is a trademark or registered trademark of Underwriters Laboratories, Inc. in the United States and/or other countries. Other trademarks, registered trademarks, and trade names may be used in this document to refer to either the entities claiming the marks and names or their products. Crestron disclaims any proprietary interest in the marks and names of others. Crestron is not responsible for errors in typography or photography.

Specifications are subject to change without notice.

©2022 Crestron Electronics, Inc.

Rev 09/01/22

# GLS-ODT-C-NS

Occupancy Sensor, Dual Technology, Ceiling Mount, Non-system

