

GLS-ODT-C-CN

Occupancy Sensor, Dual Technology, Ceiling Mount, Cresnet® Control



- *Ceiling-mount occupancy sensor*
- *Dual-technology motion detection*
- *360 degree coverage pattern*
- *2,000 sq ft coverage area*
- *Discreet, low-profile appearance*
- *Accurate and reliable motion sensing*
- *Fully digital circuitry for low cost and high reliability*
- *External photosensor input*
- *Grace occupancy feature*
- *Built-in ambient light recognition*
- *Communicates via the Cresnet® wired control network*

The [GLS-ODT-C-CN](#) 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-CN 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. Reliable Cresnet® wired communications directly connects the sensor to a Crestron control system for integrated control of lighting, climate, and other devices in the room.

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-CN provides independent sensitivity adjustment for each sensor type for optimum performance in any space.

Ambient Light Sensor

A built-in photosensor detects the amount of ambient light in the room. This allows daylight harvesting to be performed which can dim or keep the lights off when there is sufficient daylight in the room.

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.

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.

Versatile Installation

The GLS-ODT-C-CN 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. The sensor includes a built-in Cresnet connection for data and power and an input for an optional external photosensor. For easy wiring, the 5-pin Cresnet connector is detachable.

Cresnet

The GLS-ODT-C-CN uses the dependable Cresnet wired network for communication between devices. Cresnet

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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.

IR Remote

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

Motion Detection Technology	Passive infrared (PIR) motion detection; Ultrasonic (US) (40 kHz)
Ambient Light Recognition	Built-in photosensor (0-1000 lux)
Coverage Area	2,000 sq ft
Coverage Pattern	360°

LED Indicators

PIR	(1) Red LED; Lights to indicate PIR detection
Ultrasonic	(1) Green LED; Lights to indicate ultrasonic detection

Controls

(1) Pushbutton located behind the front cover for testing the unit

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

(1) 5-pin 3.5 mm detachable terminal block; Cresnet® network secondary port (**24V Y Z G**) and external photosensor (**EXT**) input

Power Requirements

Current Consumption	60mA @ 24VDC
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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

0.4 lb (200 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.

Model

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Available Accessories

For a list of available accessories, visit the [GLS-ODT-C-CN](#) 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 or contact us for additional information by visiting 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.

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

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

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