GLS-OIR-W-2500

Passive Infrared Wall Mount Occupancy Sensor, 2500 Sq. Ft.

- *Wall or ceiling mount occupancy sensor*
- *Passive infrared motion detection*
- *Versatile twist-and-lock mounting bracket*
- *Swivel adjustment 80° vertical x 60° horizontal*
- *110 degree, 2500 square feet coverage*
- *Accurate and reliable sensing*
- *Microprocessor-controlled self-adapting operation*
- *Fully-digital circuitry for low cost and high reliability*
- *Built-in ambient light recognition*
- *Control system interface via Cresnet[2] or Versiport I/O input*
- *EMerge Alliance® Compatible*

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-W-2500 is a wall or ceiling mount occupancy sensor designed for large areas up to 2500 square feet to detect when the room is occupied. Advanced self-adaptive, passive infrared motion sensing affords excellent reliability for control of lighting, climate control and other devices in the room.

Passive Infrared Occupancy Sensing

Passive infrared technology achieves dependable motion detection with superior immunity to false triggering from air currents, inanimate objects, or movement in an adjacent corridor. Sensitivity is adjustable for optimum performance.

Self-Adaptive Adjustment

Under the control of its internal microprocessor, the GLS-OIR-W-2500 continually analyzes occupancy behavior and environmental conditions in the room, adjusting itself for optimal functionality so lights turn on and stay on while the room is occupied, and remain off when no one is present. Sensor sensitivity and delayed-off time adjustments are optimized automatically based on day-to-day use of the room to prevent false-on and off conditions. A walk-thru mode provides specialized behavior in instances of brief occupancy, turning lights off quickly when a person enters and exits the room within a period of 2.5 minutes.

Ambient Light Recognition

A built-in photocell is included for detection of natural daylight 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.

Versatile Installation

The GLS-OIR-W-2500 is ideally designed to afford versatile positioning in any room with low-hanging ceiling fixtures or other obstructions. The twist-and-lock bracket facilitates fast and simple mounting to a drywall or drop-tile surface, or to a standard 4-inch octagon box. Its simple 3-wire interface allows for direct connection to a Crestron control system via a single Versiport I/O input port, with 24 Volt power taken from the Cresnet control bus[1].

Cresnet® Option

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, touchpanels, shade controllers, 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-W-2500 becomes a full-featured Cresnet device, streamlining the total lighting system. Additional features enable quick and easy setup for use with a Crestron IPAC or iLux® system.

Emerge Alliance Registered

This device is EMerge Alliance® registered and designed to work within a 24VDC room-level power distribution system. The EMerge Alliance is a non-for-profit open industry association leading the rapid adoption of safe DC power distribution in commercial buildings through the development of Emerge Alliance standards[3]. Crestron is a proud member and supporter of the Alliance. For more information about Crestron Solutions for EMerge Alliance Applications visit: www.crestron.com/emerge.

EMerge™ ALLIANCE REGISTERED

SPECIFICATIONS

Sensing

Sensor Technology: Passive Infrared
Auto-Adjustment: Microprocessor-based self-adaptive
Ambient Light Recognition: Built-in photocell for ambient light override
Coverage Area: 2500 sq. ft.
Horizontal Coverage Pattern: 110 degrees
Major Motion Area: 68 x 50 feet
Minor Motion Area: 32 x 32 feet

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Memory

Built-in non-volatile memory retains all settings in case of power loss

LED Indicators

IR: (1) Red LED, indicates infrared motion

Controls (Behind Cover)

Infrared Range: (1) Red adjustment knob;
Adjusts sensitivity of infrared motion sensor;
Adjustment Range: 0% to 100% (75% factory default)
Delayed-Off Time: (1) Black adjustment knob;
Adjusts delayed-off time duration;
Adjustment Range: 30 seconds to 30 minutes (10 minutes factory default, 6 seconds in test mode)
Ambient Light Threshold: (1) Blue adjustment knob;
Adjusts threshold for ambient light override;
Adjustment Range: 100 to 3000 Lux (3000 Lux factory default)
DIP Switch A: (1) 4-position DIP switch
1: (not used);
2: (not used);
3: Disables auto-adapting;
4. Disables walk-thru mode
DIP Switch B: (1) 4-position DIP switch
1: Forces control signal output high (room lights on);
2: Forces control signal output low (room lights off);
3: Enters or exits Test Mode (toggle “on” then “off”);
4: Disables both LED indicators

Connections

Power: (1) Red 6” flying lead, 24 AWG;
+24 Volt DC power input
Common: (1) Black 6” flying lead, 24 AWG;
Power and control signal common
Occupancy: (1) Blue 6” flying lead, 24 AWG;
Occupancy sensor control signal output;
Provides 24 Volts DC high logic signal when occupancy is detected;
Short circuit protected;
Connects to a GLS-SIM Integration Module[2], or to a Versiport I/O Input control port on any Crestron control system
Occupancy w/Photocell: (1) Gray 6” flying lead, 24 AWG;
Occupancy sensor control signal output with ambient light override;
Provides 24 Volts DC high logic signal when occupancy is detected and ambient light is below set threshold;
Short circuit protected;
Used instead of the blue “Occupancy” connection when ambient light override is desired

Environmental

Temperature: 32° to 104°F (0° to 40°C)
Humidity: 0% to 95% RH (non-condensing)

Power Requirements

Current Consumption: 20 mA @ 24 Volts DC
Cresnet Power Usage: 1 Watt[1]

Housing

Construction: High-impact injection-molded plastic, white
Mounting: Surface wall or ceiling mount directly to drywall or drop-tile, 4” octagon box (1.5” minimum depth), or round fixture box (Wiremold® V5738 or equivalent); twist-and-lock mounting bracket included

Dimensions

Without mounting bracket
Height: 5.50 in (13.97 cm)
Width: 2.75 in (6.99 cm)
Depth: 1.65 in (4.20 cm)
With mounting bracket
Height: 6.43 in (16.34 cm)
Width: 4.23 in (10.75 cm)
Depth: 4.67 in (11.87 cm)

Weight

6.0 oz (171 g)

Standards & Certifications

CUL/US Listed 9034, ANCE Compliant, NOM 057, California Title 24 Code Compliant, ASHRAE Standard 90.1 Compliant, FCC Compliant

MODELS & ACCESSORIES

Available Models

GLS-OIR-W-2500: Crestron Green Light® Passive Infrared Wall Mount Occupancy Sensor, 2500 Sq. Ft.

Notes:

1. Power may be taken from Crestnet bus regardless of interface method.
2. Cresnet communication requires GLS-SIM Sensor Integration Module (sold separately).
3. Information regarding the EMerge Alliance can be found at www.emergealliance.org

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.

Specifications subject to change without notice. Crestron is not responsible for errors in typography or photography.

COVERAGE DIAGRAMS