

GLS-OIR-CSM-EX-BATT

Battery-Powered infiNET EX[®] Occupancy Sensor, 500 Sq. Ft.

- > Ceiling mount occupancy sensor
- > Passive infrared motion detection
- > 360 degree, 500 square feet coverage
- > 9-Volt battery powered
- > Control system integration via infiNET EX[®] wireless network
- > Discreet, low-profile appearance
- > 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-CSM-EX-BATT is a low-profile, battery-powered occupancy sensor designed for small areas up to 500 square feet to detect when the room is occupied. The GLS-OIR-CSM-EX-BATT allows for wireless connection to a Crestron[®] control system via the infiNET EX[®] wireless network.

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.

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.

infiNET EX Communications

Ultra-reliable infiNET EX wireless technology provides steadfast two-way RF communications throughout a residential or commercial structure without the need for physical control wiring. Employing a 2.4 GHz mesh network topology, each infiNET EX device functions as an expander, passing command signals through to every other infiNET EX device within range (approximately 150 feet or 46 meters indoors), ensuring that every command reaches its intended destination without disruption^[1].

The GLS-OIR-CSM-EX-BATT communicates with a Crestron control system via an infiNET EX Wireless Gateway (model [CEN-RFGW-EX](#), [DIN-AP3MEX](#), or [MC3](#)^[2]). Up to 100 infiNET EX devices may coexist on a single wireless network, and every non-battery-powered device that is added to the network effectively increases the range and stability of the entire network by providing multiple redundant signal paths^[1]. Built-in Dynamic Frequency Allocation continuously monitors RF conditions, automatically selecting the clearest channel to prevent interference from neighboring networks, cordless phones, and microwaves.

Versatile Installation

The GLS-OIR-CSM-EX-BATT is designed to achieve a discreet, nearly hidden appearance when installed on a typical drywall or drop-tile ceiling. Hardware is included for fast and simple mounting to either surface, or to a standard 4-inch octagon box.



SPECIFICATIONS

Sensing

Sensor Technology: Passive Infrared
Coverage Area: 500 sq. ft.
Coverage Pattern: 360 degrees
Major Motion Area: 150-500 sq. ft.
Minor Motion Area: 0-150 sq. ft.

Wireless

RF Transceiver: infiNET EX[®] 2-way RF, 2.4 GHz ISM Channels 11-26 (2400 to 2483.5 MHz), default channel 15; IEEE 802.15.4 compliant
Range (typical): 150 ft (46 m) indoor, 250 ft (76 m) outdoor to nearest mesh network device(s); subject to site-specific conditions and individual device capabilities^[1]
Gateway: Requires an infiNET EX gateway^[2]

LED Indicators

IR: (1) Red LED, indicates motion in test mode, unsuccessful messages and unsuccessful acquire, and low battery life
IR: (1) Green LED, indicates successful messages and acquire, FW upgrades, good battery life

Controls (Behind Cover)

Sensitivity Knob: Low - High (Scales Linearly)
Timeout Knob: 30s - 30m
Test/Acquire Button: Test mode, battery check, acquire, wakens device

Environmental

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

Power Requirements (Battery)

Type: Lithium Ion, Ultralife® 9V Lithium Battery, P/N U9VL-J-P 1200mAh

Life: 10 Years (under normal operation conditions)

Current Consumption: 15 µA

Cresnet® Power Usage: 135 µW

Housing

Construction: (Main Housing) Lexan 221R plastic

Mounting: (2) self-drilling anchors, (2) Pan Phillips screws

Dimensions

Height: 1.19 in (31 mm)

Diameter: 4.38 in (112 mm)

Weight

Without Battery: 3.43 oz (97.3 g)

With Battery: 4.75 oz (134.8 g)

Standards & Certifications

UL, FCC, CE, C-Tick, IC

MODELS & ACCESSORIES

Available Models

GLS-OIR-CSM-EX-BATT: Battery-Powered infiNET EX® Occupancy Sensor, 500 Sq. Ft.

Available Accessories

CEN-RFGW-EX: infiNET EX® Wireless Gateway

CEN-RFGW-EX-PWE: infiNET EX® Wireless Gateway w/PoE Injector

MC3: 3-Series Control System® w/infiNET EX®

DIN-AP3MEX: DIN Rail 3-Series® Automation Processor w/infiNET EX®

CLW-EXPEX-GD-W-T: infiNET EX® Wireless Expander, Ground Pin Down, White Textured

GLA-EXPEX: Crestron Green Light® Wireless Expander for infiNET EX® Networks

Notes:

1. Any infiNET EX device that provides expander functionality will effectively extend the range of the wireless network beyond the initial range of the gateway. Battery-powered infiNET EX devices, including the GLS-OIR-CSM-EX-BATT BATT, do not provide expander functionality. Wireless networks composed predominantly of battery-powered devices may need additional infiNET EX expanders, such as the CLW-EXPEX or GLA-EXPEX (sold separately), or other non-battery powered infiNET EX devices to ensure proper functionality of the network and battery life for the devices. Refer to the **Best Practices for Installation and Setup of Crestron RF Products, Doc. #6689** for complete system design guidelines, or contact [Crestron True Blue Support](#) for further assistance.
2. Item(s) sold separately.

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.

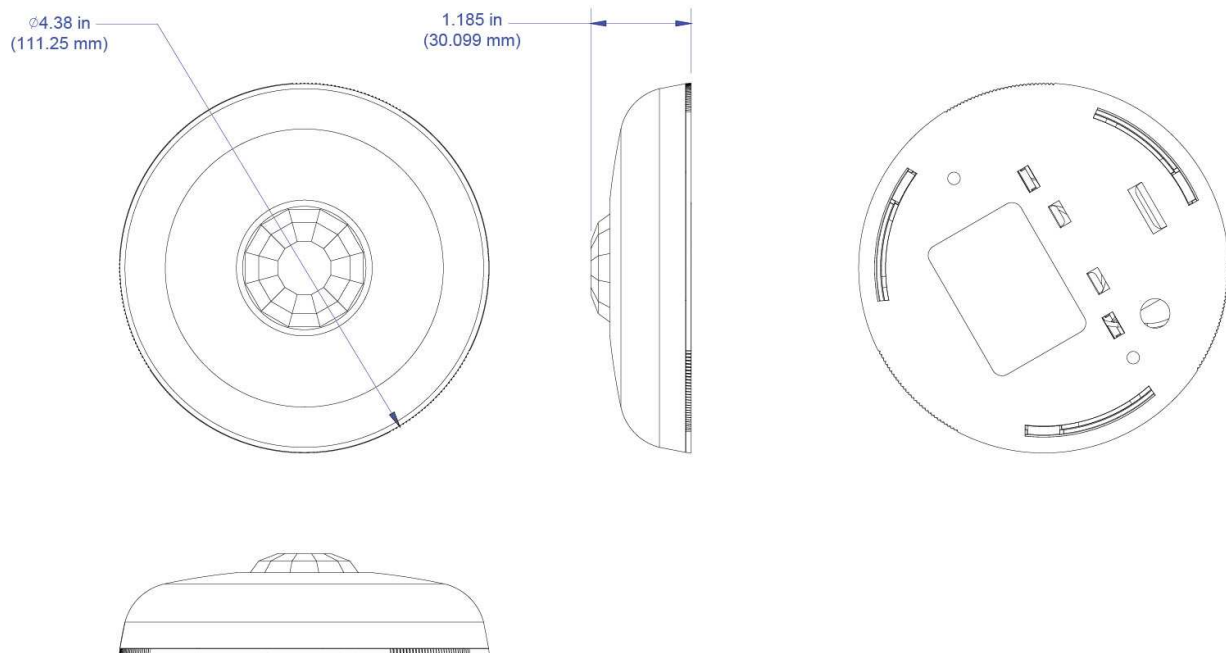
The specific patents that cover Crestron products are listed online at: patents.crestron.com.

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CAD DRAWING



COVERAGE DIAGRAMS

