GLS-OIR-CSM-EX-BATT

Wireless Passive Infrared Occupancy Sensor, infiNET EX®, Battery-Powered

> Wireless ceiling mount occupancy sensor

> Passive infrared motion detection

> 360 degree, 500 square feet (46.5 m²) coverage

> Half mask and perforated mask included

> 10-year battery life using included 9 Volt lithium battery

> Control system integration via infiNET EX® wireless network

> Vacancy-only capability with grace occupancy

> Discreet, low-profile appearance

Crestron® occupancy sensors offer a powerful, cost-saving solution for reducing energy usage and enhancing system functionality. As part of a complete Crestron system, they can be used to enable automation of lighting, shading, HVAC, and AV equipment based on room occupancy or vacancy. They can also be used to expand the capabilities of a room scheduling, asset management, or energy monitoring solution through integration with the Crestron Fusion® Enterprise Management service.

The GLS-OIR-CSM-EX-BATT is a battery-powered, passive infrared occupancy sensor designed for ceiling mount installation in small areas up to 500 square feet or 46.5 square meters. It communicates wirelessly with a Crestron control system via the infiNET EX® wireless network, allowing for quick installation without running any wires.

Passive Infrared Occupancy Sensing

Passive infrared (PIR) technology employs a highly sensitive specialized lens that divides the field-of-view into sensor zones. The sensor detects motion when a warm body passes between zones, achieving dependable motion detection with superior immunity to false triggering from vibrations, inanimate objects, or movement in an adjacent corridor. The detection sensitivity is adjustable for optimum performance. Timeout can be set anywhere from 30 seconds to 30 minutes to maintain occupied status during short periods of inactivity. A half mask and perforated mask are included to customize the coverage area.

Vacancy Only Mode with Grace Occupancy

The GLS-OIR-CSM-EX-BATT can be configured via the control system program to sense vacancy only. In this mode, the lighting and other equipment is shut off automatically when a room becomes vacant, but can only be turned on manually. If the lights turn off while someone is in the room, they can be turned back on by simply waving a hand within the 15 second grace period.

infiNET EX® Wireless Technology

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. The GLS-OIR-CSM-EX-BATT communicates with a Crestron control system via an infiNET EX wireless gateway, and can function as part of a complete network of wireless sensors, lighting dimmers, motorized shades, thermostats, door locks, keypads, handheld remotes, and other devices.[1]

Ceiling Surface Mount Installation

The GLS-OIR-CSM-EX-BATT includes hardware for mounting to a typical drywall or drop-tile ceiling. When installed, it achieves a discreet appearance against a white ceiling, and may be painted to blend with other surfaces.

SPECIFICATIONS

Sensing

Sensor Technology: Passive Infrared
Coverage Area: 500 square feet (46.5 square meters)
Coverage Pattern: 360 degrees (half mask and perforated mask included)
Major Motion Area: 150 to 500 square feet (13.9 to 46.4 square meters)
Minor Motion Area: 0 to 150 square feet (0 to 13.9 square meters)

Power

Battery: (1) Ultralife® U9VL-J-P 9 Volt 1200 mAh lithium disposable battery (included)
Battery Life: 10 years under normal operating conditions

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): 50 ft (15 m) to gateway or nearest mesh network device(s), subject to site-specific conditions and individual device capabilities, range between floors or ceilings is limited to one level [1]
Gateway: Requires an infiNET EX gateway or Crestron Pyng control hub (sold separately)

CRESTRON®

Head on view

Shown with cover removed

Controls & Indicators

SENSITIVITY: (1) Knob (behind cover), adjusts PIR sensitivity from low to high

TIMEOUT: (1) Knob (behind cover), adjusts timeout from 30 seconds to 30 minutes

TEST: (1) Pushbutton (behind cover) for test mode, setup, and battery condition

STATUS: (1) Red and (1) green LEDs for test mode, setup, and battery condition

Environmental

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

Construction

Housing: Plastic, removable cover, white finish
Mounting: Ceiling surface mount, 3 inch (76 mm) screw spacing

Dimensions

Height: 1.19 in (31 mm)
Diameter: 4.38 in (112 mm)

Weight

Without Battery: 3.5 oz (98 g)
With Included Battery: 4.8 oz (135 g)

Compliance

UL Listed, CE, IC, UL 60730-1, FCC Part 15 Class B digital device

MODELS & ACCESSORIES

Available Models

GLS-OIR-CSM-EX-BATT: Wireless Passive Infrared Occupancy Sensor, infiNET EX®, Battery-Powered

Available Accessories

CEN-GWEXER: infiNET EX® & ER Wireless Gateway
CENI-GWEXER: infiNET EX® & ER Wireless Gateway – International Version
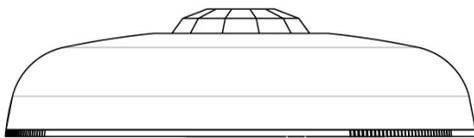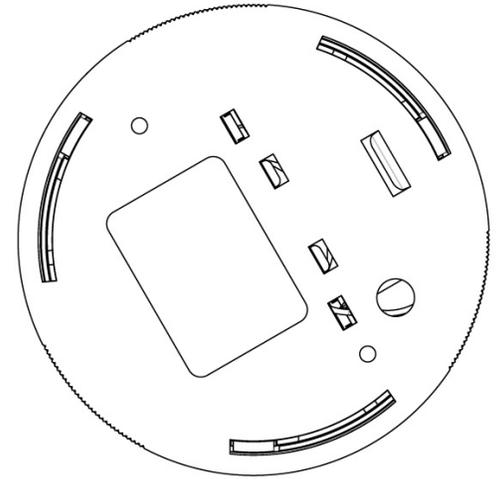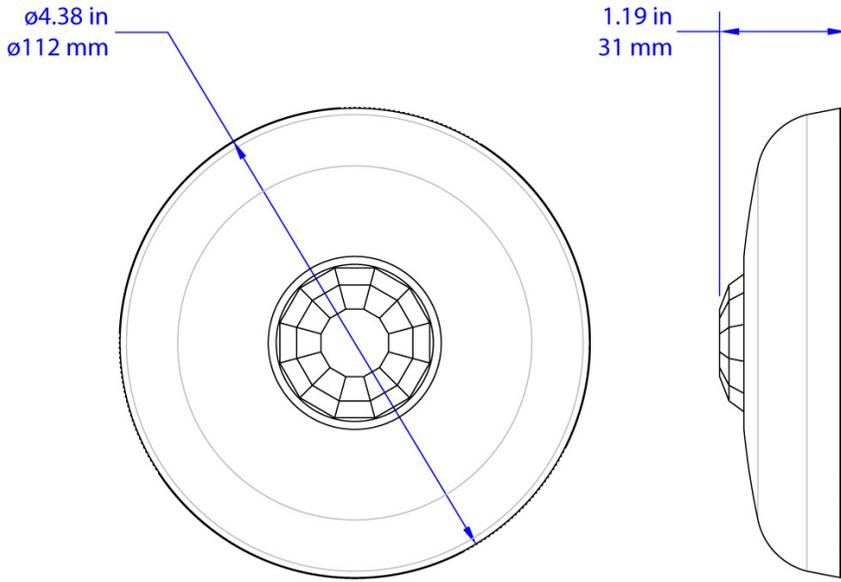**MC3:** 3-Series Control System® w/infiNET EX® & ER Wireless Gateway
DIN-AP3MEX: DIN Rail 3-Series® Automation Processor w/infiNET EX® & ER Wireless Gateway
CLW-EXPEX: infiNET EX® Wireless Expander
GLA-EXPEX: Crestron Green Light® Wireless Expander for infiNET EX® Networks

ø4.38 in
ø112 mm

1.19 in
31 mm

Notes:

1. The infiNET EX wireless gateway (model CEN-GWEXER, DIN-AP3MEX, MC3, or PYNG-HUB) is sold separately. Crestron infiNET EX wireless technology employs a mesh network topology so each "EX" device on the network acts as a routing node or "expander," which relays the signals it receives on to other EX devices within range. This effectively extends the total range of the network and provides multiple redundant signal paths for extra reliability. A maximum of six "hops" across routing nodes is allowed, although a maximum of three is recommended. Please note that the GLS-OIR-CSM-EX-BATT and other battery-powered infiNET EX devices only operate as leaf nodes and do not provide expander functionality. If needed, up to five dedicated infiNET EX expanders (models CLW-EXPEX or GLA-EXPEX, sold separately), may be deployed as supplemental routing nodes to fill any gaps in coverage. Up to 100 infiNET EX devices are permitted per gateway, although best practices suggest a limit of 50. Refer to the "Installation and Setup of Crestron RF Products, Best Practices" guide (Doc # 6689) for additional guidelines.
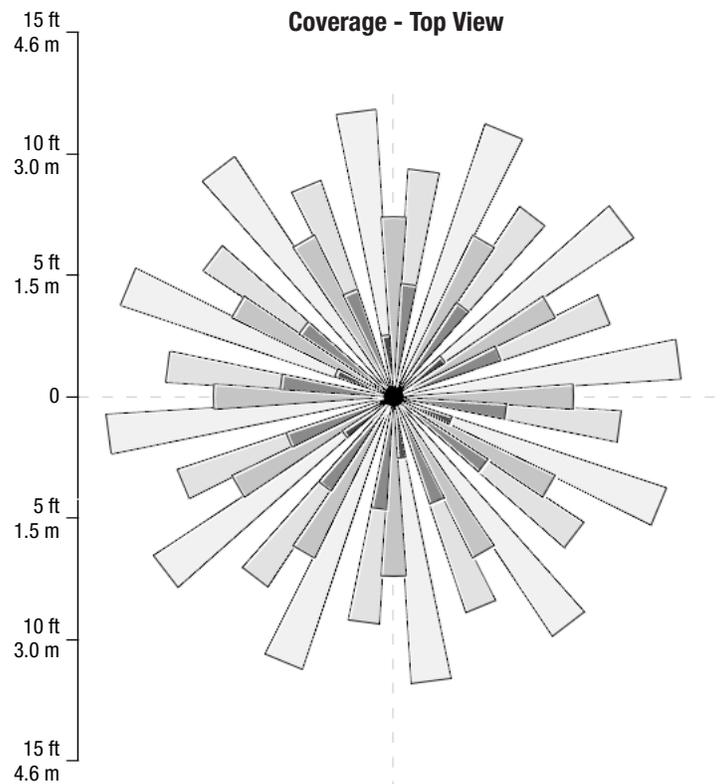
This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

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

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

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Coverage - Top View

15 ft
4.6 m

10 ft
3.0 m

5 ft
1.5 m

0

5 ft
1.5 m

10 ft
3.0 m

15 ft
4.6 m

Coverage - Side View

0

8 ft
2.4 m

| 12 ft 3.7 m | 9 ft 2.7 m | 7 ft 2.1 m | 5 ft 1.5 m | 3 ft 0.9 m | 0 | 3 ft 0.9 m | 5 ft 1.5 m | 7 ft 2.1 m | 9 ft 2.7 m | 12 ft 3.7 m |