

EnOcean® PIR Ceiling Sensor Datasheet

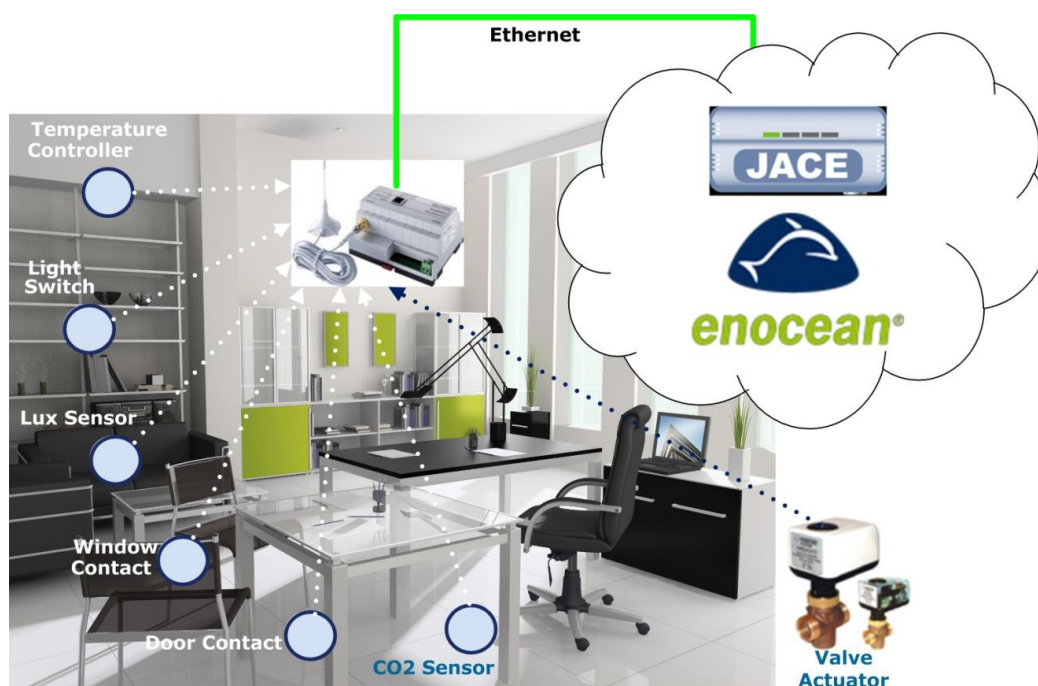
Control Network Solutions, (CNS) creates market disruptive SMART web based solutions for building and lighting controls.

"Energy harvesting wireless solutions based upon open interoperable device international standards properly applied to smart building controls, offer highly energy efficient, low operating cost and sustainable solutions"

Introduction



cns-enocean™ for Niagara, is a web based solution, globally available today, that enables the simple commissioning and operation of networks of EnOcean® wireless energy harvesting devices through Ethernet connected wireless interfaces, via any suitable Niagara or Web Supervisor™ platform.



This enables Niagara Community and System Integrator Partners to leverage their existing Niagara tools, skills and knowledge to offer advanced wireless energy harvesting switching and sensing solutions to their customers: For further information visit www.cns-enocean.com.

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EnOcean PIR Ceiling Sensor

Saving energy without sacrificing comfort can be effortless with occupancy based controls. The Ceiling Mounted Occupancy Sensor enables a new level of energy saving control for rooms, hallways and other common areas. The Occupancy sensor uses radio frequency technology to communicate wirelessly with other EnOcean-enabled devices to set back temperature and turn off lights and electrical loads when a space has been unoccupied for a set period of time. Because the sensors are wireless there is no need to run additional wiring and installation can be completed in a matter of minutes. The sensor is self-powered by harvesting energy from indoor light, eliminating the need for periodic battery changes. The clean, contemporary styling makes it an attractive addition to any décor.



EnOcean PIR Ceiling Sensor Features

- ◆ **Interoperable.** Communicates wirelessly with other devices using the EnOcean wireless standard.
- ◆ Self-powered. Two integrated solar cells enable indoor light energy harvesting to power the device and eliminate the need for wires or batteries.
- ◆ PIR motion sensor with 360 degree viewing angle lens for maximum efficiency in different room settings.
- ◆ Two moulded buttons with LED indicator lights can be used to link and configure the device.
- ◆ Internal tray accommodates supplemental coin cell battery for use in low light environments.
- ◆ Maintenance free
- ◆ Environmentally friendly
- ◆ Highly suited to both retro-fit and new build
- ◆ Available for global applications based upon licensed 868, 902 & 351MHz RF bands
- ◆ FCC and European approved

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EnOcean PIR Ceiling Sensor Typical Applications

Self-powered wireless PIR occupancy sensors are the perfect energy saving solution for any space where traffic patterns or occupancy determine the need to power the space. Install the occupancy sensors in guest rooms, living spaces, common areas or hallways and link them with our HVAC setback module, thermostat or in-line switch module to ensure that the HVAC, lights and other electronic loads are only on when they are needed.

Energy Harvesting Wireless

Enjoy unlimited flexibility and performance with EnOcean-enabled energy harvesting wireless solutions. Systems that employ this wireless device benefit from limitless supplies of energy and unrivalled flexibility.

EnOcean PIR Ceiling Sensor Specifications

Power Supply: Indoor light energy harvesting (Optional supplemental battery or 2-wire connector for external power or remote solar cell)

RF Communications	EnOcean 902 MHz or 315 MHz or 868MHz
Transmission Range	80ft. (25m)
Motion Detection Range	40ft. (25m) diameter
Minimum Operating Light	50 lux (for auto-off only)
Start-up Charge Times (from empty)	<p>Linking = 4 min @ 100 lux 1.5 min @200 lux</p> <p>Motion Transmission = 6 min @ 100 lux 3.5 min @ 200 lux</p> <p>Light/Walk Test Modes =5.5 hrs @ 200 lux</p>

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Note: Bright light or battery can be temporarily used to shorten initial start-up charge times	
Charge Time to Full	9 hrs @ 200 lux
Sustaining Charge Time	3 hours per 24 hours @ 200 lux
Motion Transmission Interval	60 - 300 seconds (based on real-time charge rate) 60 sec @ 200 lux - 300 sec @ 50 lux
Heartbeat Transmission Interval	120 - 600 seconds (based on real-time charge rate) 120 sec @ 200 lux - 600 sec @ 50 lux
Operating Life in Darkness	48 hours (after full charge)
EnOcean Equipment Profile (EEP)	(902MHz): A05-07-02 (315MHz): A05-07-01 (868MHz):
Dimensions	6.5" H x 2.36" W x 1.47" D (160mm x 60mm x 37mm)
Mounting Height Agency Compliance	7 - 10 feet (2.1 - 3.05 metres) (recommended) 902 MHz - FCC: SZV-EOSC05 / IC: 5713-EOSC05 315 MHz - FCC: SZV-EOSC01 / IC: 5713A-EOSC01
Warranty	1 year

PIR Sensor Range and Coverage Diagrams

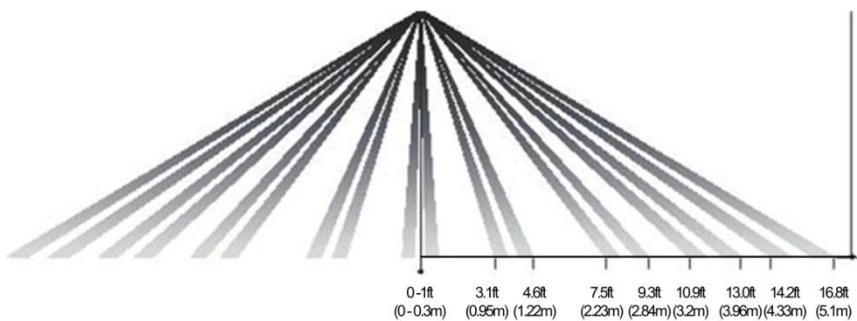


Fig 1: Side View

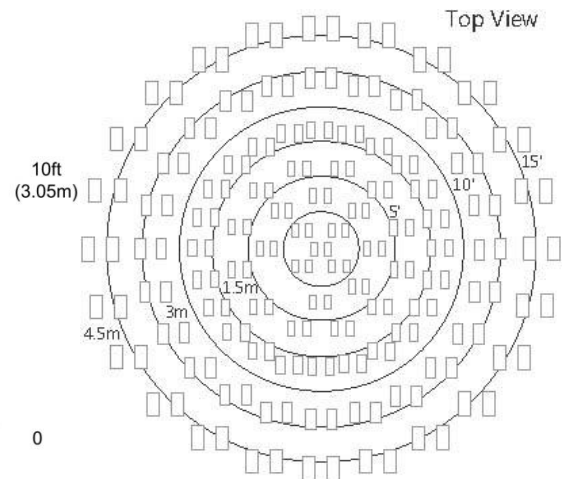


Fig. 2: Top view of sensor coverage based on 10ft mounting height

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EnOcean Wireless Information

EnOcean Wireless Systems Range Planning application note, [click here](#).

Order Details

Description:

Finish

Part No:

cns-enocean Ceiling Sensor

White

CNSEOSCA-W-/MHz*

NOTE: MHz* please specify appropriate radio frequency option for your application or region as follows;

- ◆ 868MHz
- ◆ 315MHz
- ◆ 902MHz
- ◆ 921MHz

CNS can also supply additional **cns-enocean** compatible EnOcean wireless energy harvesting products [click here](#) for more details.

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Contact Details

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