

PIR Occupancy & Motion Sensor

MOS-17C



energy conservation - home and office

Overview

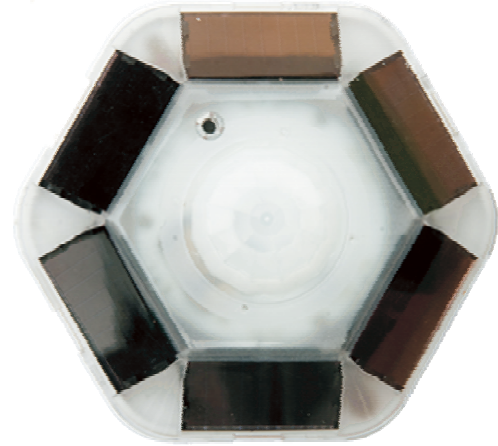
The MOS-17C is a wireless, energy harvesting, ceiling mount, Passive InfraRed (PIR) occupancy sensor. Used for indoor applications, the detector is optimized for ceiling heights of 8 - 12 feet.

The sensor broadcasts an EnOcean telegram when occupancy is detected and repeats transmissions with a minimum 100 second period between subsequent telegrams.

Powered by six solar cells, the MOS-17C can operate without battery backup for over 90 hours. An efficient power supply and tuned sensor circuitry allows the MOS-17C to provide immediate response to new occupancy states making it an ideal solution for auto-ON applications.

A walk-test feature allows installers to test and verify sensor operation on location without extra tools or software. The LINK button is used to initiate the test sequence while an on-board LED blinks whenever motion is detected. Installers can verify correct sensor placement insuring reproducible operations.

False occupancy state tripping through pet movements or from other elements can be reduced with an on-board slide switch selecting a lower sensitivity setting. A selection of two lens provides motion detection coverage from 1000 sq.ft. to 1900 sq.ft.



Features

- ⇒ Ceiling mount with 360 ° angle of detection
- ⇒ Walk-Test feature allows installers to test operation and installation location during commissioning
- ⇒ Sends occupied and un-occupied (PIR ON/OFF) telegrams per EnOcean profile A5-07-01
- ⇒ Operates in low light - 30 lux or 3 foot candles
- ⇒ Provides immediate response to motion even in a dark room
- ⇒ Instant sensing for Auto-ON applications
- ⇒ Peel and Stick sensor installation provides exceptional space flexibility options
- ⇒ Eliminates conduit and wiring runs
- ⇒ Solar energy harvesting for no batteries or maintenance burden
- ⇒ Available with 315 and 868 MHZ EnOcean radios

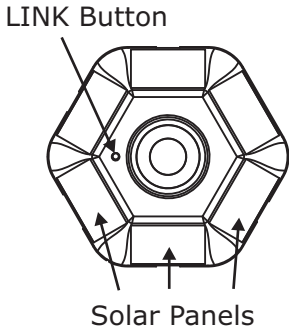
Ordering Information

Model #	Description	Part #
MOS-17CA	315MHz PIR motion sensor, 1000 sq.ft.	002-0214
MOS-17A	868MHz PIR motion sensor, 1000 sq.ft.	002-5214
MOS-17CB	315MHz PIR motion sensor, 1900 sq.ft.	002-0202
MOS-17B	868MHz PIR motion sensor, 1900 sq.ft.	002-5202



MOS-17C

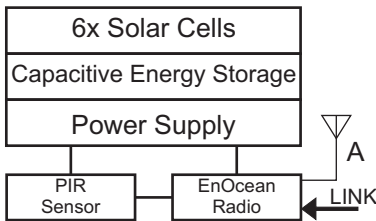
Functional Diagram



Dimensional Drawing



Block Diagram



EnOcean Equipment Profiles

EEP: A5-07-01

Occupancy Sensor - PIR ON, PIR OFF

Technical Specifications

Power Supply	Solar cell, optional battery (CR2032) backup
Operational Light Level	30 lux (3 footcandles) minimum
Charging Period	6 hours full charge at 200 lux (19 footcandles)
Initial Operation	60 seconds in 30 lux (3 footcandles)
Full Charge Operation	minimum 90 hours in 0 lux after 6 hour @ 200 lux charging period
Telegram Transmission	on motion or on heartbeat period
Telegram Heartbeat Period	110 seconds ± 20 seconds
Communications	
Radio Type	315 MHz or 868MHz EnOcean radio
Antenna	Integrated whip
Transmission Range	30m (100 ft.) - commercial office space
Inputs	LINK button for assignment to receiver
Outputs	Walk-Test LED

Mechanical Specifications

Optimal Operating Temperature	32°F to 86°F (0°C to 30°C)
Relative Humidity	5% to 95% RH (non-condensing)
Weight	3.7oz. (104 gms.)
Dimensions	4.8" diameter, 1.5" height (122 mm x 38 mm)
Mounting	mount with screws or tape (Velcro®), not supplied

Agency Listing and Compliance

Radio Frequency	FCC Part 15.231 - Remote Control Transmitter IC RSS-210
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Part # 8DC-0276 | Revision 1.3



enocean alliance

No Wires. No Batteries. No Limits.