

Occupancy Sensor - Ceiling Mount

ENOC



Product Description:

The Entuit ceiling-mounted Occupancy Sensor saves energy and adds convenience by accurately detecting when an area is occupied or vacant. It is a wireless, solar-powered sensor that detects occupancy using passive infrared (PIR) heat and motion sensing. The sensor transmits RF messages to Entuit's lighting, HVAC, and outlets to use energy more efficiently.

Features Include:

- Sends wireless messages to other devices whenever motion is detected
- Harvests ambient solar energy to power the sensor and wireless communication
- Mounts easily on any ceiling material
- Works with other sensors for enhanced occupancy tracking
- Built-in tests to confirm operation at installed location
- Supplemental battery option for extreme low-light fail-over

Specifications:

Part Numbers (Frequency Dependant)	M9-EOSC (902 MHz - North America) M8-EOSC (868 MHz - Europe and China) MJ-EOSC (928 MHz - Japan)
Power Supply: Optional:	Indoor light energy harvesting Supplemental battery (CR2032) 2-wire connector for external power or remote solar cell (3-5 VDC)
RF Transmission Range	80 ft. (25 m)
Motion Sensing Range	40 ft. (12 m) diameter (refer to coverage diagrams)
Startup Charge Times* First motion transmission / Linking Motion LED blink Light Test / Walk Test	(operation from empty energy storage) 5 minutes @ 200 lux 1.5 hours @ 2000 lux
Sustaining Charge Time for battery free operation	3 hours per 24 hours @ 200 lux
Time to Full Charge*	25 hours @ 200 lux
Operating Life in Total Darkness	80 hours (after full charge)
Minimum Operating Light	50 lux (for auto-off only)
Optional Battery Life: • Infrequent Bright Light • Consistent Low Light • Total Darkness	20 yrs (with 200 lux for 2 hrs/day, 7 days/week) 15 yrs (with 65 lux for 5 hrs/day, 7 days/week) 6.5 yrs
Motion Transmission Interval	2 minutes
Unoccupied Transmission	10 and 30 minutes since last motion
Heartbeat Transmission Interval (unoccupied)	Disabled by default Enabled = heartbeat @ 1 hr interval (after unoccupied messages)
EnOcean Equipment Profile	A5-07-01 (EEP)
Dimensions	6.30" L x 2.35" W x 1.47" D (160 mm x 60 mm x 37 mm)
Weight	4.4 oz. (125 g)
Mounting Height	7-10 feet (2-3m) recommended
Environment	Indoor use only 14° to 104°F (-10° to 40°C) 20% to 95% relative humidity (non-condensing)
Agency Compliance	FCC, IC, RoHS, CE, R&TTE

*Natural bright light (2000 lux) or a battery can be temporarily used to significantly shorten startup charge times. Specified lux values are for a typical fluorescent lighting. Lux level requirements for LED and other types may vary. For lux reference, OSHA standards require a minimum of 323 lux for office areas.

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