

High Bay Occupancy Sensor - Ceiling Mounted

The ceiling mounted occupancy sensor enables a new level of energy saving control for warehouses, garages, factories, and other indoor high bay lighting applications up to 30 feet installation height. 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 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.

Features & Benefits

- Self-powered sensor with two integrated solar cells.
- PIR motion sensor with 360 degree viewing angle.
- Two molded 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.



Occupancy Sensor (Ceiling Mounted)

Specifications (typ. values)

Power Supply Optional	Indoor light energy harvesting Supplemental battery (CR2032) or 2-wire connector for external power or remote solar cell (3 - 5 VDC)
RF Communications	EnOcean 902 MHz
Transmission Range	160 ft. (50 m)
Motion Detection Range	60 ft. (18 m) diameter (see coverage diagram)
Minimum Operating Light	50 lux (for auto-off only)
Startup Charge Times* (from empty)	First motion transmission / Linking=5 min @ 200 lux Motion LED blink Light/Walk Test Modes=1.5 hours @ 2000 lux
<i>Note: Bright light or a battery can be temporarily used to significantly shorten startup charge times.</i>	
Charge Time to Full	25 hrs @ 200 lux
Sustaining Charge Time	3 hours per 24 hours @ 200 lux
Motion Transmission Interval	2 minutes
Unoccupied Transmission	10 and 30 minutes since last motion detection
Heartbeat Transmission	default = disabled / enabled = 1 hr intervals
Environment Indoor use	14° to 104°F (-10° to 40°C), 20% to 95% relative humidity (non-condensing)
Operating Life in Darkness	80 hours (after full charge)
Optional Battery Life:	Continuous battery-free operation standard
Infrequent Bright Light	20 yrs (with 200 lux for 2 hrs/day, 7 days/week)
Consistent Low Light	15 yrs (with 65 lux for 5 hrs/day, 7 days/week)
Total Darkness	6.5 yrs
EnOcean Equipment Profile (EEP)	A5-07-01
Dimensions	6.5" H x 2.36" W x 1.47" D (160mm x 60mm x 37mm)
Mounting Height	10 - 30 feet (3 - 10 m) recommended
Agency Compliance	902 MHz: US: FCC SZV-STM300U CA: IC 5713A-STM300U

Note: These products are offered solely as finished products for OEM customers. OEM customers must add their own markings for certifications and product identification where applicable.

Sensor Range and Coverage Diagrams

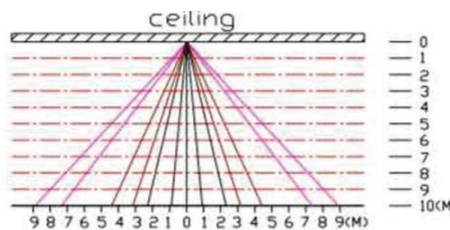


Fig. 1: Side view of sensor coverage

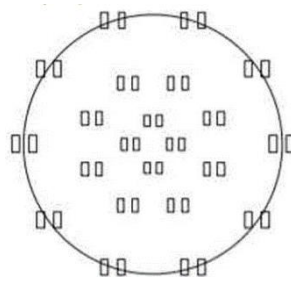


Fig. 2: Top view of sensor coverage

Ordering information

Item Number	Item Description	Color
EOSHU	Occupancy Sensor - Ceiling Mounted, 902 MHz	White

Typical Applications

Self-powered wireless occupancy sensors are the perfect energy saving solution for any space where traffic patterns or occupancy determine the need to power the space.

* Specified lux values are for typical fluorescent lighting. Lux level requirements for LED and other types may vary. For lux unit reference, national standards often require a minimum of 300+ lux for office areas.



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