EcoStruxure™
Innovation At Every Level

Room Occupancy Sensor
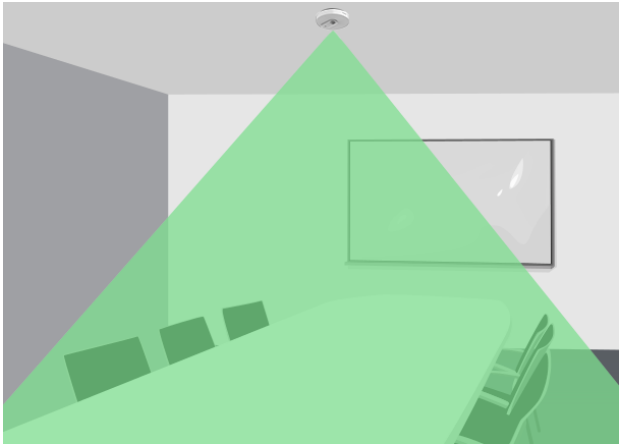
Building-IoT Sensor Solution

Specification Sheet

Introduction

As part of the EcoStruxure Building-IoT Sensor Solution, the Room Occupancy Sensor is a compact, battery-based, easy-to-install wireless sensor that is used in conference rooms and open spaces to detect occupancy.

Features

The simple design of the Room Occupancy Sensor makes it easy to deploy in a variety of spaces, such as meeting rooms, offices, lounges, and open areas. This device uses a passive infrared sensor that can detect motion in any direction. It uses ultra-slight motion technology to help ensure that the collected data is accurate. The occupancy timer can be configured via the cloud platform. Depending on your installation, this device can be mounted on the ceiling or the wall.

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Room Occupancy Sensor

Room Occupancy Sensor installed in a conference room

Installation

The Room Occupancy Sensor uses private and secure wireless technology to communicate with the IoT Sensor Solution and its Multi-Protocol Gateway. No wiring or internal networking are required. This battery-operated sensor offers a lifespan of up to 5 years.

IoT solution

The Room Occupancy Sensor can be combined with other sensors as part of the IoT solution to measure variables such as indoor air quality and desk occupancy.

Tamper detection

This sensor is equipped with tamper detection. The tamper condition is triggered when the entire sensor and its mounting base are removed from the location where they are installed or when the top cover is removed for preventive maintenance.

Over-the-air updates

This sensor supports over-the-air updates. This enables the deployment of additional firmware-related features and it facilitates security updates.

Cybersecurity

Each sensor has embedded security in the hardware and network.

Specifications

Room Occupancy Sensor	
Motion detection	
Sensor	Passive infrared
Maximum detection distance	3.35 m (11 ft) from the ceiling
Motion detection without field-of-view limiter	
Horizontal view	52.5°
Vertical view	52.5°
Material	
Enclosure	ABS (Acrylonitrile-Butadiene-Styrene)
Ingress protection rating	IP 20
Color	White
Surface finish	Glossy
Mechanical	
Dimensions	Ø95 L x 95 W x 21.35 H mm (3.7 L x 3.7 W x 0.8 H in)
Weight, including battery	120 g (0.26 lb)
LED indicator	Red, green and yellow
Button	1

Room Occupancy Sensor

Electrical	
Powered by	2x 1.5V AA L91 Lithium batteries
Estimated battery lifespan [a] Actual lifespan could vary. The amount of activity may affect the battery lifespan.	5 years[a]

Wireless connectivity	
Communication protocol	2.4 GHz, Sensor Network supporting Mesh Technology
Wireless communication range, indoor	15 sq. m (50 sq. ft), open space
Output power	Up to 8 dBm

Environment	
Environmental conditions	Indoor use only
Ambient temperature, operating	0 to 50 °C (32 to 122 °F)
Humidity, operating	20 to 80 % Relative Humidity (non-condensing)
Ambient temperature, storage	-20 to 60 °C (-4 to 140 °F)
Humidity, storage	0 to 95 % Relative Humidity (non-condensing)

Installation	
Placement	Ceiling mount or wall mount in rooms and open spaces[a]
Tamper detection	Tamper status reporting for product removal after installation and commissioning
Installation equipment, included	Mounting tape, screws, 2 x 1.5V AA L91 batteries, installation instructions

[a] In smaller rooms, under 5 x 5 m (16.4 x 16.4 ft) the sensor should be installed on the wall to avoid the field of view to extend into the hallway and capture inaccurate readings.

Agency compliances				
Region:	US	CAN	EU	AS/NZ
Standards, regulations, and certifications:	FCC part 15 class B	ICES-003 Issue 7 ISED RSS-247 Issue 2 RF exposure RSS-102 (ISED)	RoHS 2011/65/EU and 2015/863/EU REACH 1907/2006/EC UKCA Conducted and Radiated: EN 300 328 v2.2.2 EN IEC 62368-1:2020 + A11:2020 EN 301 489-1 v2.2.3 and draft EN 301489-17 v3.2.4 Low power SAR test exclusion of IEC62479:2010 Mobile or Fixed RF-Exposure conditions: EN 62311:2008	AS/NZS 4268:2017 + Amd1 2021 AS/NZS 2772.2:2016+A1:2018

Green Premium

Room Occupancy Sensor

Continued

Part numbers

Product	Part number
EcoStruxure Building-IoT Sensor Solution, Room Occupancy Sensor[a][b]	EBIOTPCWR

a) Includes batteries.
b) Mounting tape/screws, 2 x 1.5V AA L91 batteries, and installation instructions.

Room Occupancy Sensor

Disclaimer

Specifications are subject to change without notice.

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