

Desk Occupancy Sensor

Building-IoT Sensor Solution

Specification Sheet

Introduction

As part of the EcoStruxure Building-IoT Sensor Solution, the Desk Occupancy Sensor is a compact, battery-based, easy-to-install wireless sensor that is used in a variety of spaces to measure accurate desk presence.

Features

The simple design of the Desk Occupancy Sensor makes it easy to deploy in a variety of furniture and spaces, such as workstations, office cubicles, touchdown desks, and phone booths. The sensor can also measure occupancy in collaboration spaces, such as lounges and meeting rooms.



Desk Occupancy Sensor installed underneath a work desk

Desk Occupancy Sensor

Installation

The Desk 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

This sensor can be combined with other sensors as part of the IoT solution to measure variables such as indoor air quality and room 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

Desk Occupancy Sensor	
Motion detection	
Sensor	Thermopile
Maximum detection distance	60 cm (1.97 ft), open space
Motion detection without field-of-view limiter	
Horizontal view	120°
Vertical view	90°
Material	
Enclosure	ABS (Acrylonitrile-Butadiene-Styrene)
Ingress protection rating	IP 20
Color	White
Surface finish	Glossy
Mechanical	
Dimensions	92.61 L x 50.91 W x 19.00 H mm (3.6 L x 2.0 W x 0.7 H in)
Weight, including battery	60 g (0.13 lb)
LED indicator	Red, green and yellow
Button	1
Electrical	
Powered by	2x 1.5V AA L91 Lithium batteries
Estimated battery lifespan	Up to 5 years ^a
^a Actual lifespan could vary. The amount of activity may affect the battery lifespan.	

Desk Occupancy Sensor

Wireless connectivity	
Communication protocol	2.4 GHz, Sensor Network supporting Mesh Technology
Encryption technology	AES encrypted communication
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	In a variety of furniture and spaces, such as workstations, office cubicles, touchdown desks, and phone booths
Installation equipment, included	Mounting tape, screws, 2 x 1.5V AA L91 batteries, installation instructions
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	AS/NZS 2772.2:2016+A1:2018 AS/NZS 4268:2017 + Amd1 2021 AS/NZS 55032:2015 + A11:2020

Green premium

Part numbers	
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Product	Part number
EcoStruxure Building-IoT Sensor Solution, Desk Occupancy Sensor ^{a,b}	EBIOTPCWD

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

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Disclaimer

Specifications are subject to change without notice.

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