

# Room Occupancy Sensor

## Building-IoT Sensor Solution

### Specification Sheet



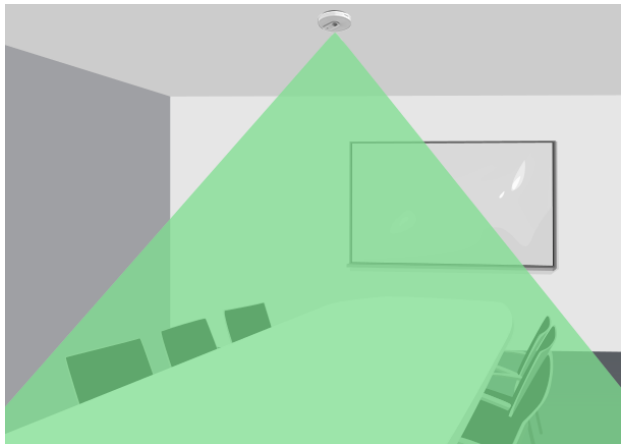
#### Introduction

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.

# 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.

## 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                                                    |

## 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.

# Room Occupancy Sensor

| Electrical                                                                                                                                                                                      |                     |                                                                                  |                                                                                                                                                                                                                                                                                                                |                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Powered by                                                                                                                                                                                      |                     | 2x 1.5V AA L91 Lithium batteries                                                 |                                                                                                                                                                                                                                                                                                                |                                                            |
| Estimated battery lifespan                                                                                                                                                                      |                     | 5 years <sup>a</sup>                                                             |                                                                                                                                                                                                                                                                                                                |                                                            |
| <sup>a</sup> Actual lifespan could vary. The amount of activity may affect the battery lifespan.                                                                                                |                     |                                                                                  |                                                                                                                                                                                                                                                                                                                |                                                            |
| 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 <sup>a</sup>                |                                                                                                                                                                                                                                                                                                                |                                                            |
| 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      |                                                                                                                                                                                                                                                                                                                |                                                            |
| <sup>a</sup> 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<br>ISED RSS-247 Issue 2<br>RF exposure RSS-102 (ISED)           | RoHS 2011/65/EU and 2015/863/EU<br>REACH 1907/2006/EC<br>UKCA<br>Conducted and Radiated:<br>EN 300 328 v2.2.2<br>EN IEC 62368-1:2020 + A11:2020<br>EN 301 489-1 v2.2.3 and draft EN 301489-17 v3.2.4<br>Low power SAR test exclusion of IEC62479:2010<br>Mobile or Fixed RF-Exposure conditions: EN 62311:2008 | AS/NZS 4268:2017 + Amd1 2021<br>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 <sup>ab</sup>      | 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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