Signify

interact

Motion sensor without daylight sensor

Motion sensor with daylight sensor

Specification Sheet

OCC0100A/02 BP Sensor WH / OCC0101A/02 DL BP Sensor WH

The Signify wireless motion sensor and multi sensor, which are Interact Ready, make it easy to upgrade to a smart lighting system. It is a battery powered sensor which uses 2.4 GHz Zigbee technology to enable reliable and secure communication with the lights in your space.

It triggers automatic responses to turn on, or dim the lights according to occupancy detection and daylight variation.

The sensor is designed for office, school, education, healthcare and retail related indoor applications.

OCC0100A/02 BP Sensor WH - Motion Sensor without Daylight Sensor, OCC0101A/02 DL BP Sensor WH - Motion Sensor with Daylight Sensor

Product Features

Occupancy Detection
- Passive Infrared (PIR) technology to detect occupancy accurately
- Adjustable sensitivity.
- Minimum false trigger

Daylight Dependent Regulation (DDR)
- High accuracy of ambient light measurement from approximately 1 to 5 000 lux at floor level
- Closed loop DDR
- Fast report for calibration

Installation
- Battery-powered, no mains wire required
- Quick and easy mounting with double-sided tape or screws
- Walk test mode available for optimal detection
- Indoor use only

Environment
- ROHS/REACH compliant
- No mercury
- Low carbon footprint

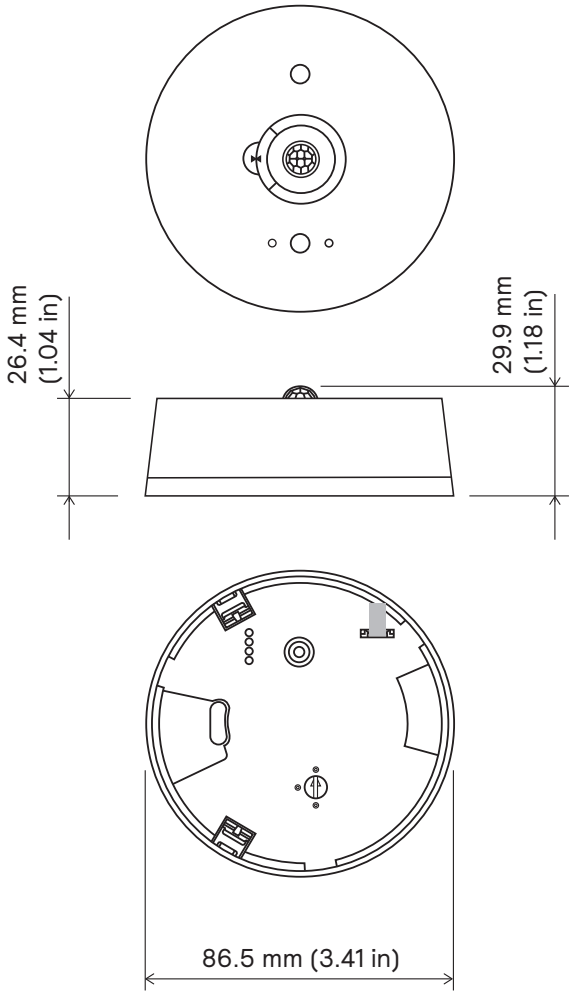
Connectivity
- 2.4 GHz mesh networking technology
- Reliable and secure wireless communication, nominal range 15 m
- Easy commissioning

Control Functionality
- Automatic light control based on occupancy detection and DDR
- Adjustable sensor parameters for personalized lighting behaviors

Reliability
- Reliable operation between –5 °C and +45 °C ambient temperature.*
- Battery life > 8 years. Minimum maintenance.
- MTBFP (Meantime Before False Positive motion sensor) > 500 hours at high sensitivity

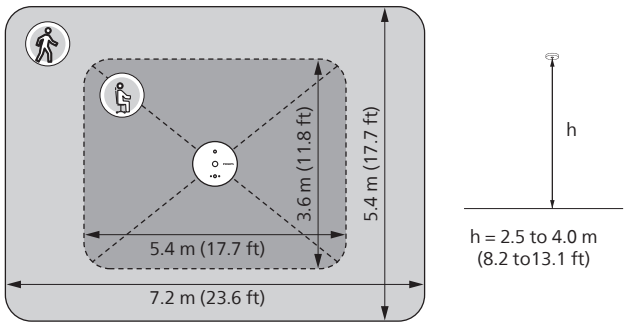
* As PIR based sensing works on the difference between subject's temperature and ambient temperature, the occupancy detection could vary due to clothing and size of the subject. The sensor detection area will decrease when the difference in subject's temperature and ambient temperature is approximately 5 °C or less.

Dimensional drawings

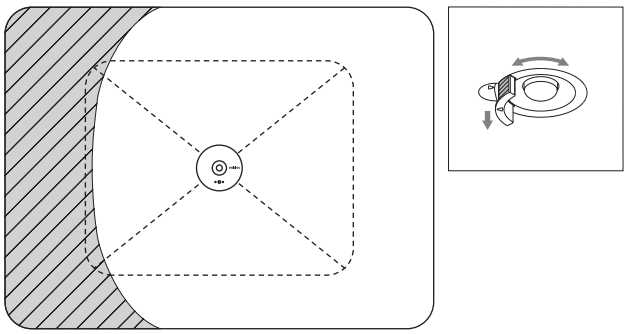


Field-of-View

Field-of-View motion



At h = 2.5 m (8.2 ft)



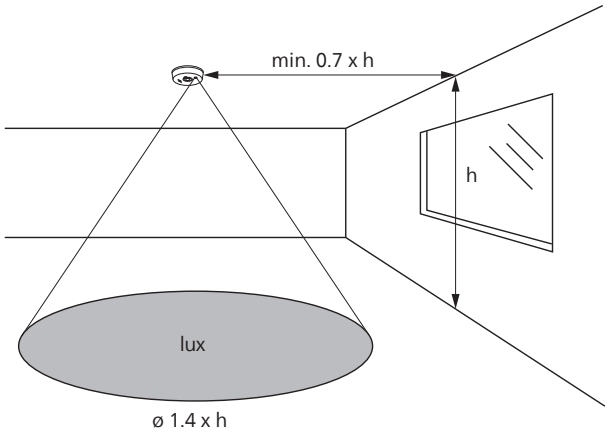
Use the plastic shield on top of the lens to reduce the motion field of view.

Field-of-View daylight

Only applicable for the OCC0101A/02 DL BP Sensor WH. The light sensor measures the total amount of light in a circular field of the thermopile detection area. The following aspects must be observed during installation:

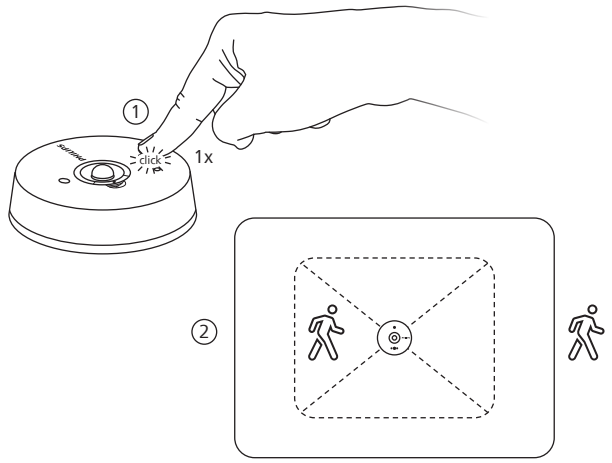
- Minimum distance from the window ≥ 0.6 m (≥ 2 ft).
- Prevent light reflections from outside entering the sensor (for example sunlight reflection on a car) as this leads to incorrect light regulation.

As a guideline, the formula 0.7 x h can be used to calculate the minimum distance between the window and sensor whereby h is the height from the windowsill to the ceiling.



Walk test

A walk test helps to determine the optimal location to place the sensor by quickly testing the occupancy detection coverage. This is ONLY possible after sensor has been commissioned.



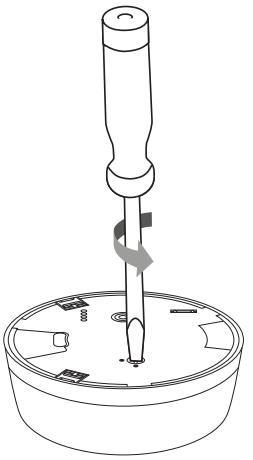
Red LED ON = motion
Red LED OFF = no motion

1 Press once AFTER commissioning to enter/ exit the mode

2 Red LED ON - motion
Red LED OFF - no motion

Sensitivity

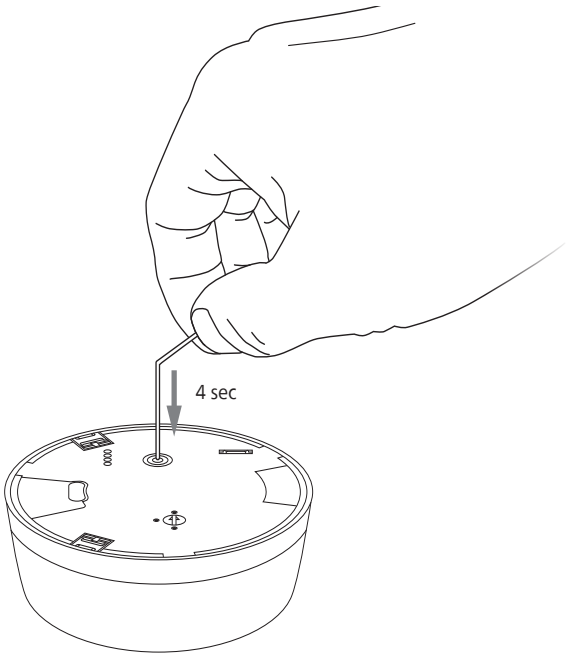
If needed, the sensitivity for motion detection can be adjusted with the dial at the back.
Three sensitivity levels are available from Low, Medium to High (High as default).



High (default)
Medium
Low

Factory reset

Performing a factory reset restores the sensor to the un-commissioned status. The sensor is removed from the current network (if any). To remove the device from a certain system, it is sometimes also required to delete it from the app. See the Commisioning Guide when necessary. The sensor automatically enters the commissioning mode after a factory reset.



2 x red and green LED blinks ✓

LED indicator

LED pattern	
Green LED blinks every 10 s	Ready for commissioning
Green LED blinks every 2 s	Commissioning in progress
Green LED flash 2 x	Commissioning successful
Red LED flash 2 x	Commissioning failure
Green and Red LEDs flash 2 x	Successful factory reset
Red LED flash 1 x	Motion detected in walk test mode
Green LED flash 6 x	Occupancy detected
Red LED flash 3 x	Occupancy detected and battery low

Specifications

General

Weight	0.090 kg (3.17 oz)
Material	Polycarbonate
Color	White
Mounting height	≤ 4 m (≤ 13.1 ft)
Battery lifetime	Up to 8 years
RF range open-air	15 m (49.2 ft)
Daylight level	1 to 2000 lx at sensor surface

Functional

Motion detection	OCC0100A/02 BP Sensor WH OCC0101A/02 DL BP Sensor WH
Daylight	OCC0101A/02 DL BP Sensor WH

Environmental

Temperature operational storage	 –5 to +45 °C* (23 to 113 °F) –25 to +65 °C (–13 to +149 °F)
Humidity	0 to 95% non-condensing
IP Rating	40

Compliances

Battery information	1xR6, Li/SOCI2
Certifications	CE, UKCA, UL, FCC, ISED

* As PIR based sensing works on the difference between subject's temperature and ambient temperature, the occupancy detection could vary due to clothing and size of the subject. The sensor detection area will decrease when the difference in subject's temperature and ambient temperature is approximately 5 °C or less.

Ordering Data

Type	Region of sale	MOQ	Ordering number
OCC0100A/02 BP Sensor WH	Global (except North America)	1	9137 010 67003
OCC0100A/02 BP Sensor WH	North America	1	9137 010 67013
OCC0101A/02 DL BP Sensor WH	Global (except North America)	1	9137 010 67103
OCC0101A/02 DL BP Sensor WH	North America	1	9137 010 67113

Specific Data Notice

This Specific Data Notice applies to the sensors as specified in this product specification/data sheet (the "Sensor") that is part of or works with a Professional System offered by Signify for use in the European Union and supplements and/or corrects the Generic Data Notice For Professional Systems and Services that can be found at: https://www.signify.com/global/legal/digital-terms/data-notices (the "Generic Data Notice") by providing additional and/or more specific details specific to this Sensor.

Terms starting with a capital in this Specific Data Notice, will have the meaning as attributed thereto in the Generic Data Notice, unless explicitly defined otherwise in this document.

When used in a professional lighting system of Signify in combination with an Interact Wireless Gateway with either the Interact Building Manager or Signify Interact Builder software services the Sensor is capable of generating the Data as specified below[1]:

- Operational Data: energy consumption, failures (of light points and driver), burning hours (read from the driver as per DALI-2 protocol)
- Sensor Data: occupancy state for the last minute as per Zigbee wireless communication protocol

The Product Data generated in this combination is communicated via the gateway to the Interact cloud where these are stored. Product Data is neither stored on the Sensor itself nor on the gateway. Product Data cannot be accessed directly from the Sensor[2] Product Data that is Readily Available Data can be accessed as indicated in the software specification sheet of respectively Interact Building Manager and Signify Interact Builder.

This Specific Data Notice may be changed by Signify from time to time. The current version of this notice will apply and can be obtained at request via the point of contact as indicated in paragraph 7 of the Generic Data Notice.

1. The type and volume and format of Product Data that is actually generated depends on the product and/or software configuration and subscription to the relevant software service.
2. In typical use the connected product is commissioned in which state the on-device generated data cannot be directly accessed to safeguard security.

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