Signify
interact



Specification Sheet

MPS3100/05 OCC-DL IA WH 8M

Occupancy Sensor

The mains powered sensor is a standalone occupancy and daylight sensor. It is an Interact Ready sensor, which means it can be easily upgraded to a smart lighting system. It works with Interact ready luminaires with wireless drivers and the mounting height of the sensor can range from 2.1 to 8 m.

Its 2.4 GHz Zigbee technology enables reliable and secure communication towards the lights in your space. It triggers automatic responses to turn on or dim the lights according to the occupancy detection and daylight variations. The sensor is designed for waterproof applications and low to mid-bay heights.

MPS3100/05

Features

- Motion sensor PIR for occupancy detection
- Adjustable sensitivity
- Minimum false trigger
- Light sensor daylight dependant regulation (DDR)
- Infrared receiver module for IR remote control
- Zigbee and a bluetooth low energy (BLE) transceiver

Benefits

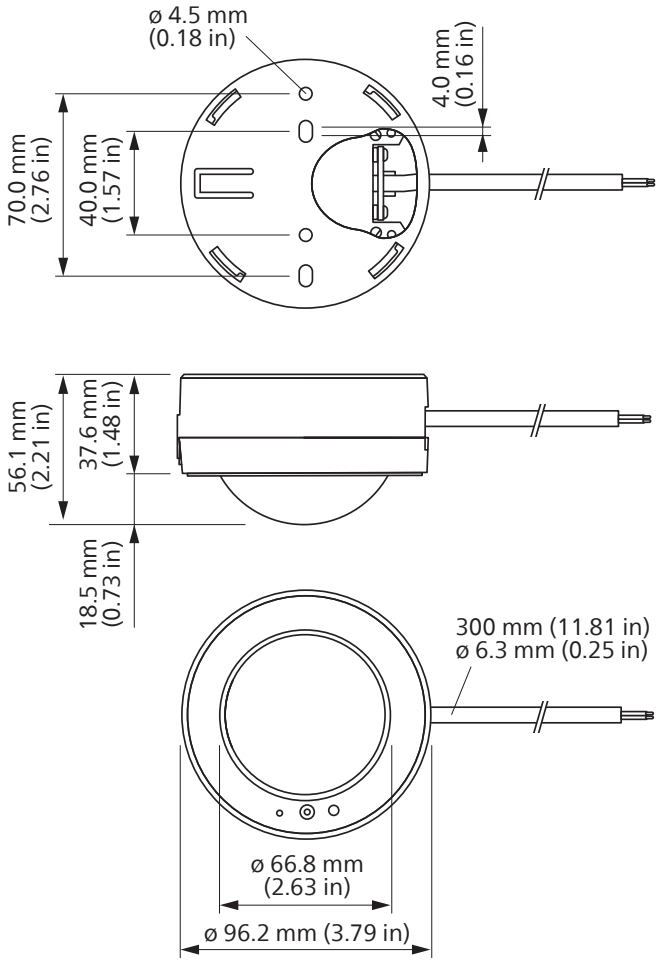
- Automatic light control based on occupancy detection and daylight sensing
- Adjustable sensor parameters for personalized lighting behaviors
- Status indication is done by three built-in LEDs

Applications

The typical application areas are warehouses, parking garage, factories, locking docks, classrooms, auditoriums, libraries, gymnasiums, hospital corridors, patient rooms, lobbies, office corridors, conference rooms etc...

The sensor is surface mounted on the ceiling, working with Interact ready luminaires with wireless drivers and the mounting height can range from 2.1 to 8 m.

Dimensional drawings



Mounting

Surface mounting with an installation height between 2.1 to 8 m from the floor.

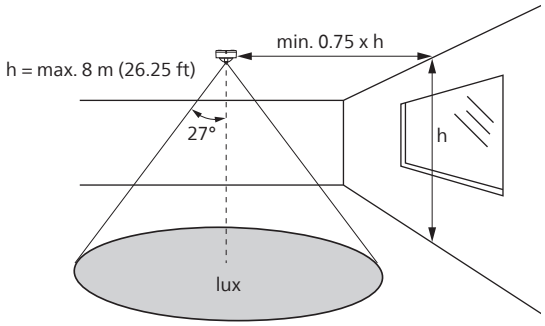
Cable

Type	H05RN-F 60245IEC57(YZW)
Color	Black
Strip length	8.5 ±1 mm
Wire type	Solid 0.75 mm^2
Wire isolation	Insulation: EI4(IE4) + (EPR) Jacket: EM2(SE4) + (CPE)
Length	0.3 m

Daylight sensing

- High accuracy of ambient light measurement from approximately 1 to 1500 lux at sensor level
- Closed loop daylight regulation
- Daylight fast report for calibration

Field of view daylight



PIR occupancy sensing

Movement type	Sensor mounting height	Maximum sensor detection diameter (ratio of mounting height (H) and diameter (D)) H:D
Major movement	2.1 to 8 m	1:2
Minor movement	2.1 to 5 m	1:1.5

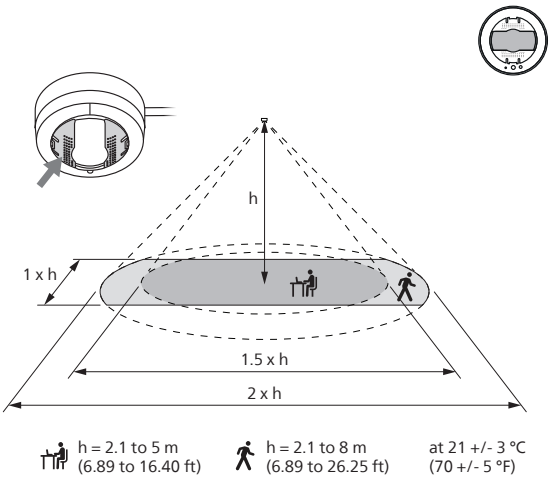
For example: if the mounting height is 5 m, then the maximum sensor detection diameter for major motion is 10 m and minor motion is 7.5 m.

Note

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.

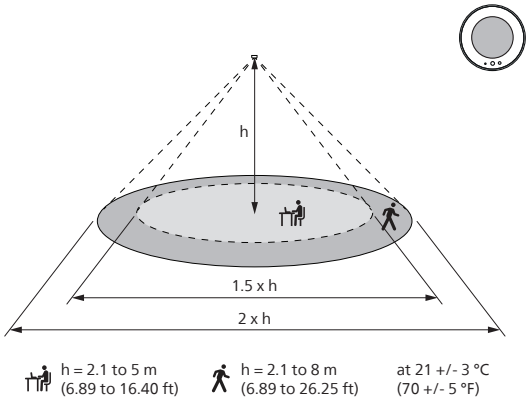
Field-of-View

Field of view motion (with lens shield)



Field of view motion (without lens shield)

Remove the shield on top of the lens to achieve complete detection area of a sensor.

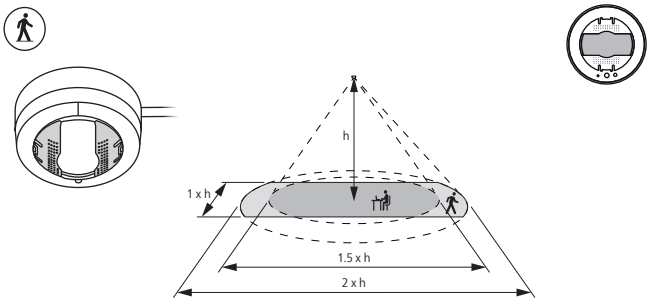


Lens shielding options

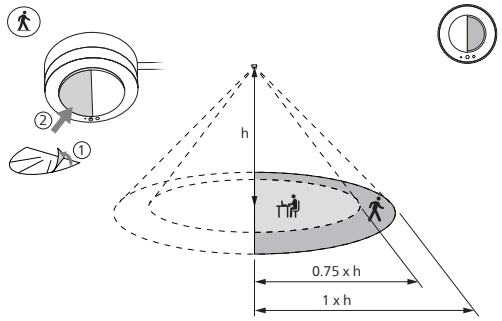
Use the shield on top of the lens to reduce the motion field of view.

Shielding option: Rectangle field of view

Remove the parts to get a rectangle field of view as shown in the below figure.



Shielding option: Hemisphere field of view
Remove the parts (1) to get a hemisphere field of view (2) as shown in the below figure.



IR receiver

The working range of an IR receiver is within the taper area with an angle of 20°. The Signify IRT9015 or IRT9090 IR remote control is used to select luminaires during commissioning.

Zigbee

This device is compatible with the Zigbee standard IEEE 802.15.4. The firmware updates can be sent over the air. It provides a reliable and secure wireless communication.

Bluetooth

This device is compatible with the Bluetooth Low Energy protocol 4.2 (5.1 compliant) standard.

LED indicator

This device has a RGB LED indicator built-in underneath the PIR lens, which gives a clear visibility of the sensor functions.

LED pattern	
Sensor is powered ON and stabilizing	Yellow LED is ON for 30 seconds.
Sensor detects occupancy	Red LED is ON
Sensor detects vacancy	Yellow LED is ON
If the mobile app or gateway sends BLINK command to sensor for identification	Green LED toggles at a rate of 10Hz frequency for 4 seconds.
In the mobile app, • Click Delete button to remove a sensor • Click the Reset button to factory reset a sensor	Green LED toggles at a rate of 10Hz frequency for 10 seconds. Then Green LED stops blinking and Yellow LED starts blinking.
In the remote control, • Click Add button to localize a fixture • Click 0 (zero) button to reset a fixture	Green LED toggles at a rate of 10Hz frequency for 10 seconds. Then Green LED stops blinking and Yellow LED starts blinking.

Specifications

Physical data

Dimensions	Φ 96.2 x 56.3 mm
Installation height	2.1 to 8 m
Net weight	0.19 kg
Color	White

Environmental data

Operating temperature	–40 to +65 °C (-40 to +149 °F)
Storage temperature	–40 to +85 °C (-40 to +185 °F)
Operating relative humidity	20 to 85/85%, non-condensing
Storage relative humidity	10 to 95%, non-condensing
Protection rating	• IP66 • IK08 (without lens)

Electrical data

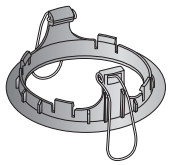
Input voltage	220 to 240 V (50 to 60 Hz)
Input current	5 mA
Input power	< 0.5 W
Surge protection	2 kV (line to neutral) 4 kV (line/neutral to earth)
Maximum distance BLE for commissioning	15 m line of sight
Maximum distance Zigbee MPS3100 to MPS3100	50 m line of sight, package error rate (PER) < 1%

Compliance

Approbation	CE, CB, UKCA, ENEC, WEEE RCM

Accessory

Recessed mounting plate



Order name	Color	MOQ	Order number	Region of sale
SA3000/05 Rec Mnt MPS3xxx	White	1	9137 010 75003	Global

Ordering data

Order name	MOQ	Ordering number	Region of sale
MPS3100/05 OCC-DL IA WH 8M	1	9137 010 71203	Global (excluding North America) Mains power supply of 220 V to 240 V is compatible.

Note

The MPS3100/05 sensor is not suitable for use in North America as it is not compatible with 110 V mains power supply.

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 Interact Pro 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 Interact Pro.

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.

Warning

- Avoid touching live parts.
- Do not use drivers with damaged housing and/or connectors.
- Do not use drivers with damaged wiring.
- Class 1 luminaires must be connected to protective earth.
- Switchable function to make the open load on the driver output is an abnormal condition, and it is not an intended application that will be allowed.

Safety warnings and installation instructions to be taken into account during design-in and manufacturing:

- Do not use damaged or defective contacts or housings.
- Do not use damaged products.
- Do not service the driver when the mains voltage is connected and this includes connecting or disconnecting the LED load.

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