Easily enhance your smart lighting system with the Philips wireless occupancy sensor and multi sensor, which are Interact Ready. They trigger automatic responses to turn on, off or dim the lights according to occupancy detection and daylight variation. The 2.4GHz mesh networking technology offers reliable and secure communication within the space and further towards the Interact IoT platform. The result? Greater energy saving, more control possibilities and a more adaptable space!
Product Features

Occupancy Detection
• Passive Infrared (PIR) technology to accurately detect occupancy/vacancy.
• Proprietary algorithm minimizes false trigger.
• Three-level adjustable sensitivity setting.

Connectivity
• 2.4GHz mesh networking technology.
• Reliable and secure wireless communication, nominal range 15m (49ft).
• Easy commissioning.

Daylight Sensing [1]
• High accuracy of ambient light measurement from 1-2000 LUX
• Closed loop daylight regulation
• Daylight fast report for calibration

Control Functionality
• Automatic light control based on occupancy detection and daylight sensing [1].
• Adjustable sensor parameters for personalized lighting behaviors.

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

Reliability
• Reliable operation between -5°C and +45°C ambient temperature.
• Battery lifetime above 8 years. Minimum maintenance. [2]
• IP42 (IEC standard 60529)

Environment
• No Mercury.
• Low Carbon Footprint.

Application

[1]: For multi sensor only.
[2]: As calculated in typical conference room application.
Field-of-View

- Field-of-view (FOV) for motion detection is determined at typical height (h=2.5m) for major and minor motion with NEMA tests, respectively. Daylight FOV is for multi sensor only.

Motion FOV

<table>
<thead>
<tr>
<th>Sensor</th>
<th>major motion</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field-of-View</th>
<th>Motion FOV</th>
<th>Daylight FOV</th>
</tr>
</thead>
<tbody>
<tr>
<td>At h = 2.5 m (8.2 ft)</td>
<td>5.4 m (17.72 ft)</td>
<td>3.6 m (11.81 ft)</td>
</tr>
<tr>
<td>Valid at +20 °C</td>
<td>1.4 x h</td>
<td>1.4 x h</td>
</tr>
</tbody>
</table>

- Motion FOV can be reduced using the plastic shield around the lens.

Daylight FOV

- h = max. 4 m/13.12 ft
- h = 2.5 - 4 m (8.20 - 13.12 ft)
- lux
- 1.4 x h
Installation Instructions

1. Insert 1 x AA 3.6V battery.

2. Commission sensor to network.
   - Green LED 2 x blinks
   - Red LED 2 x blinks

   If commissioning fails, press once right away to re-enter commissioning mode. In other cases, perform a factory reset [see later section].

3. > 3 m (9.8 ft)

4. FOV indicator

5. Only for multi sensor
   - x 4 sec: daylight fast reporting mode
   Please always refer to system guide for daylight calibration instructions.
• A walk test will help to determine the optimal location to place the sensor by quickly testing the occupancy detection coverage. It’s ONLY possible after sensor has been commissioned.

! [Walk test diagram]

(1) Press once AFTER commissioning to enter/exit the mode.

(2) Red LED on - motion
Red LED off - no motion

• 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).

! [Sensitivity diagram]

L: low
M: medium
H: high

• Performing factory reset will restore sensor to un-commissioned status. Sensor will be removed from current network (if any). To remove the device from certain system, it’s sometimes also required to delete it from app. Please refer to system guide when necessary. Sensor will automatically enter commissioning mode after factory reset.

! [Factory reset diagram]

2 x Red and Green LED blinks x 4 sec
Sensor Placement Guideline

- Sensors should not be exposed to direct sunlight, material with high reflection factor (e.g. aluminum shade) or heating/cooling sources.
- The field of view (FOV) of the sensor shall not be obstructed, e.g. ceiling fans or luminaries.
- Multi sensor should be positioned to detect both artificial light and sunlight.
- Position the sensor to cover the majority of space for detecting all large movements, in particular near the entry points. Small movements should be detected where occupants tend to move less. Multiple sensors may be needed for larger spaces for full motion detection coverage.
- Motion in adjacent areas shall not be detected to avoid false triggering of the lights. The plastic shield near the lens can be used to limit the motion FOV.
- It’s recommended to place only one multi sensor per daylight zone for optimal regulation. A daylight zone can be created for each partitioned space where daylight condition is relatively uniform, and the multi sensor only needs to sample the lux level within a small area. When the daylight condition varies dramatically across the area, it’s recommended to create two or more daylight zones and consequently more multi sensors are needed.
- Do not install the sensor on the ceiling until it has been programmed and fully tested.
- Important: Please refer to the system guide for any system related instructions.

LED indicator

<table>
<thead>
<tr>
<th>LED pattern</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green LED blinks every 10s</td>
<td>Ready for commissioning</td>
</tr>
<tr>
<td>Green LED blinks every 2s</td>
<td>Commissioning in progress</td>
</tr>
<tr>
<td>Green LED flash × 2</td>
<td>Commissioning successful</td>
</tr>
<tr>
<td>Red LED flash × 2</td>
<td>Commissioning failure</td>
</tr>
<tr>
<td>Green and Red LEDs flash × 2</td>
<td>Successful factory reset</td>
</tr>
<tr>
<td>Red LED flash × 1</td>
<td>Motion detected in walk test mode</td>
</tr>
<tr>
<td>Green LED flash × 6</td>
<td>Occupancy detected</td>
</tr>
<tr>
<td>Red LED flash × 3</td>
<td>Occupancy detected and battery low</td>
</tr>
</tbody>
</table>

Dimensions

Temperature

<table>
<thead>
<tr>
<th></th>
<th>Toperating</th>
<th>Tstorage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating temperature</td>
<td>min -5°C</td>
<td>max +45°C</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>min -25°C</td>
<td>max +65°C</td>
</tr>
</tbody>
</table>
Technical Specs and Order Information

<table>
<thead>
<tr>
<th>Product number</th>
<th>Product Description</th>
<th>Type</th>
<th>Mounting height (m)</th>
<th>Motion FOV at h=2.5m (sqm)</th>
<th>Battery lifetime (yr)</th>
<th>RF range open-air (m)</th>
<th>Daylight level (lux)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9290018190</td>
<td>OCC SENSOR IA CM WH</td>
<td>Occupancy, ceiling mounted</td>
<td>&lt;=4</td>
<td>5.4 x 7.2 (major) 3.6 x 5.4 (minor)</td>
<td>&gt;8</td>
<td>15</td>
<td>--</td>
</tr>
<tr>
<td>9290018191</td>
<td>OCC-DL SENSOR IA CM WH</td>
<td>Occupancy and daylight, ceiling mounted</td>
<td>&lt;=4</td>
<td>5.4 x 7.2 (major) 3.6 x 5.4 (minor)</td>
<td>&gt;8</td>
<td>15</td>
<td>1-2000</td>
</tr>
</tbody>
</table>

Approbation & Certificates

Philips wireless occupancy sensor and multi sensor follow applicable legislation and standard. The product complies with **UL, cUL and CE**.

Application Notes

- Product is battery operated. Use only the specified battery type (3.6V AA). Misuse of battery may cause risk of fire or damage the device.
- Designed for indoor use only. DO NOT use in applications with high levels of condensation.
- Reliable operation between -5 °C to +45 °C ambient temperature.
- Modifications to the product void the limited warranty. For warranty information, please see [www.philips.com/lighting](http://www.philips.com/lighting).
- You are required to read and understand the Quick Installation Guide and all warnings, cautions and other materials related to installation before commencing installation work.