

PHILIPS

Lighting Control

Wireless Occupancy
Sensor, Wireless Multi
Sensor



Technical Application Guide

Philips wireless occupancy sensor and multi sensor, which are Interact Ready, mean easy upgrade to a smart lighting system. Its 2.4GHz mesh networking technology enables reliable and secure communication towards the lights in your space. It triggers automatic responses to turn on, off or dim the lights according to occupancy detection and daylight variation. The result? Even more energy saving and enhanced flexibility in your space!



interact
ready.

Product Features

Occupancy Detection

- Passive Infrared (PIR) technology to detect occupancy accurately.
- Adjustable sensitivity. Minimum false trigger.
- 40 sqm Field-of-View at typical mounting height.

Daylight Sensing

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

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.

Environment

- No Mercury.
- Low Carbon Footprint.

Connectivity

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

Control Functionality

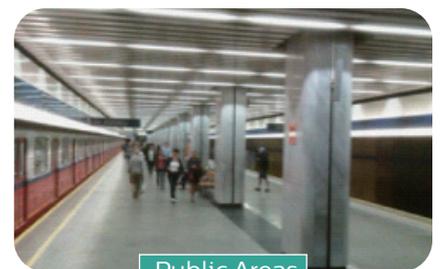
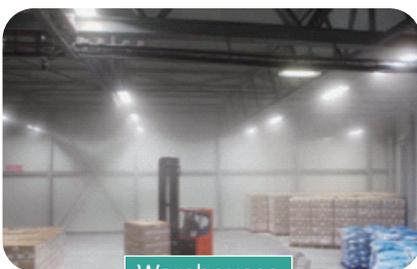
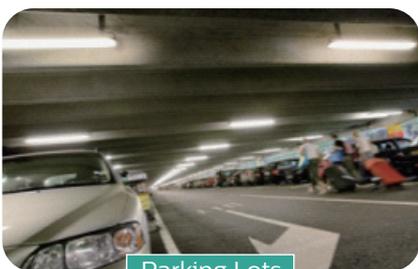
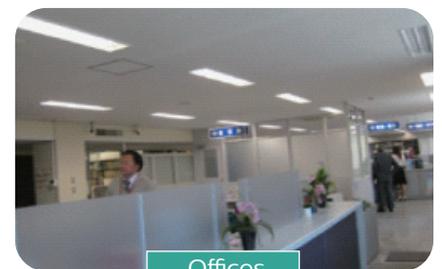
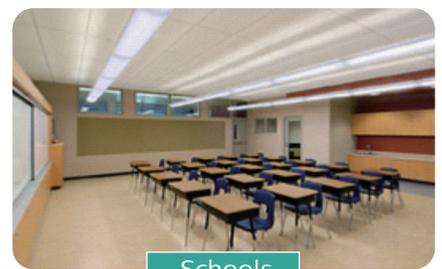
- Automatic light control based on occupancy detection and daylight sensing.
- Adjustable sensor parameters for personalized lighting behaviors.

Reliability

- Reliable operation between -5°C and +45°C ambient temperature.
- Battery lifetime above 8 years. Minimum maintenance. ^[1]
- IP42 (IEC standard 60529)

[1]: As calculated in typical conference room application.

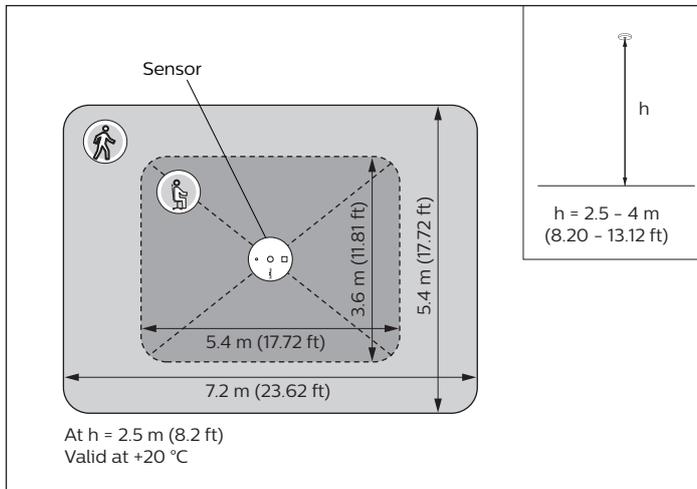
Application



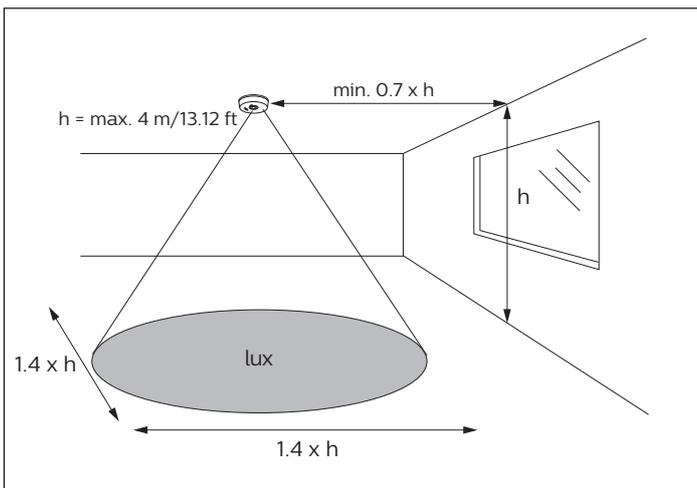
Field-of-View

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

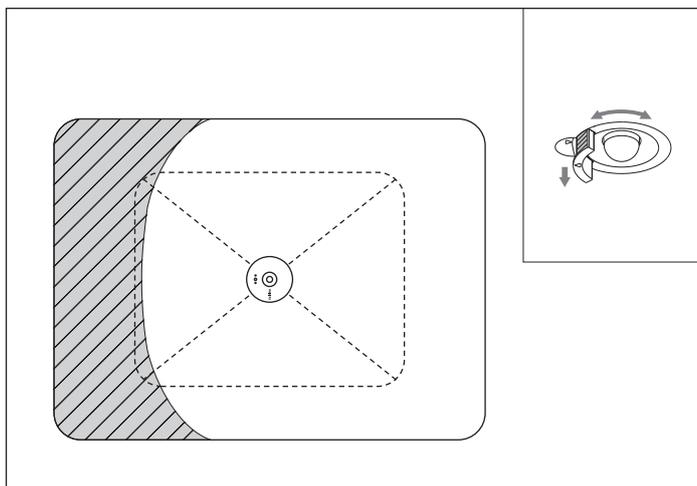
Motion FOV



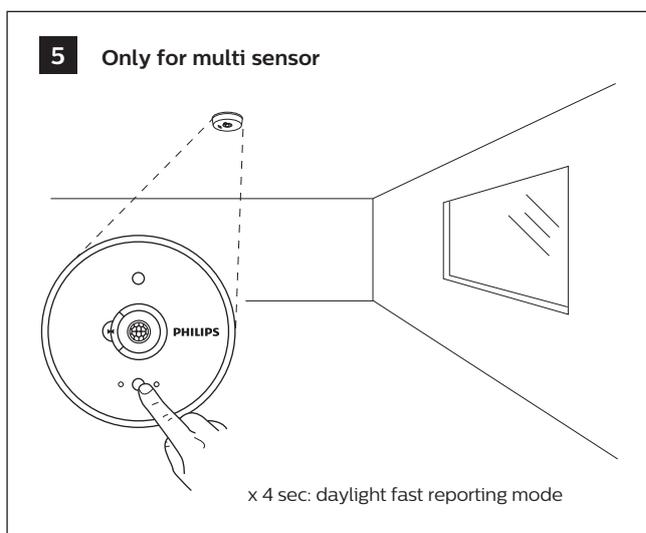
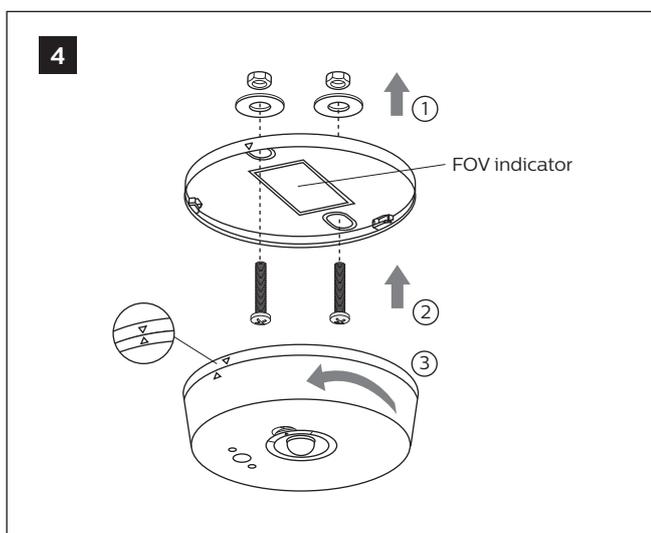
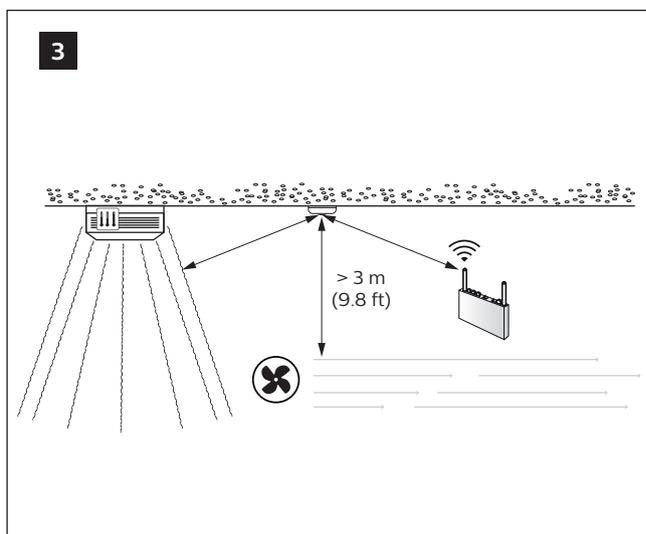
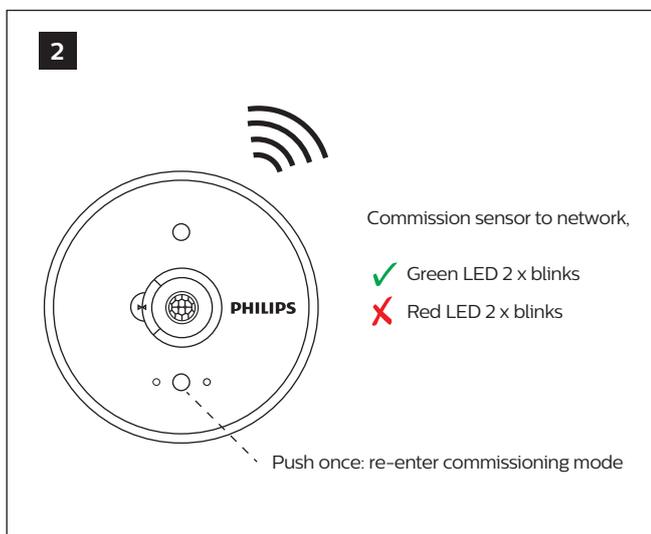
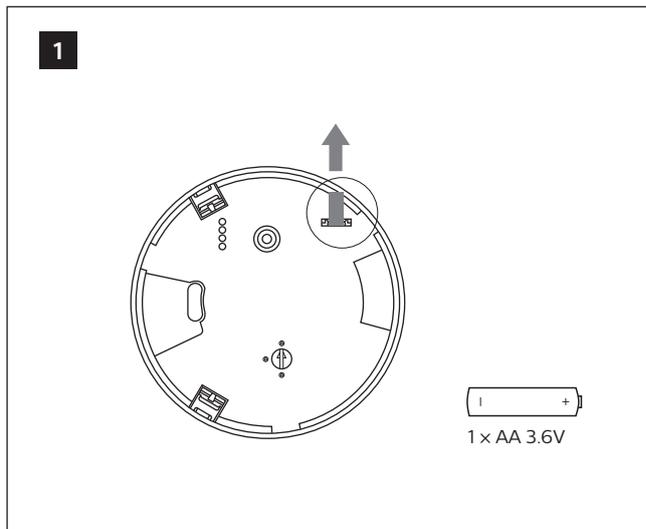
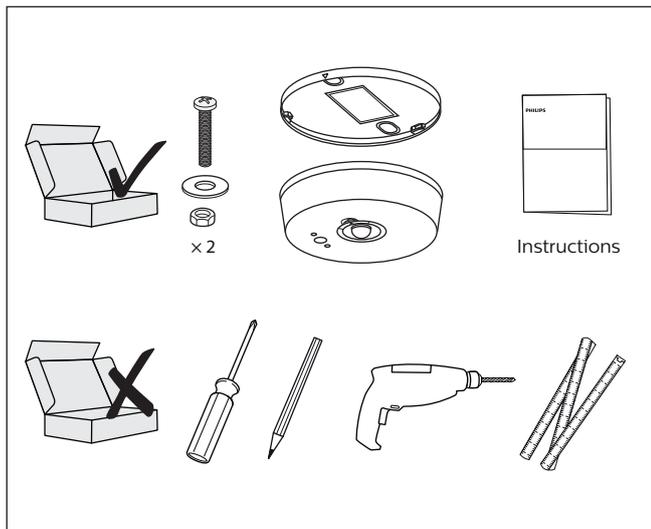
Daylight FOV



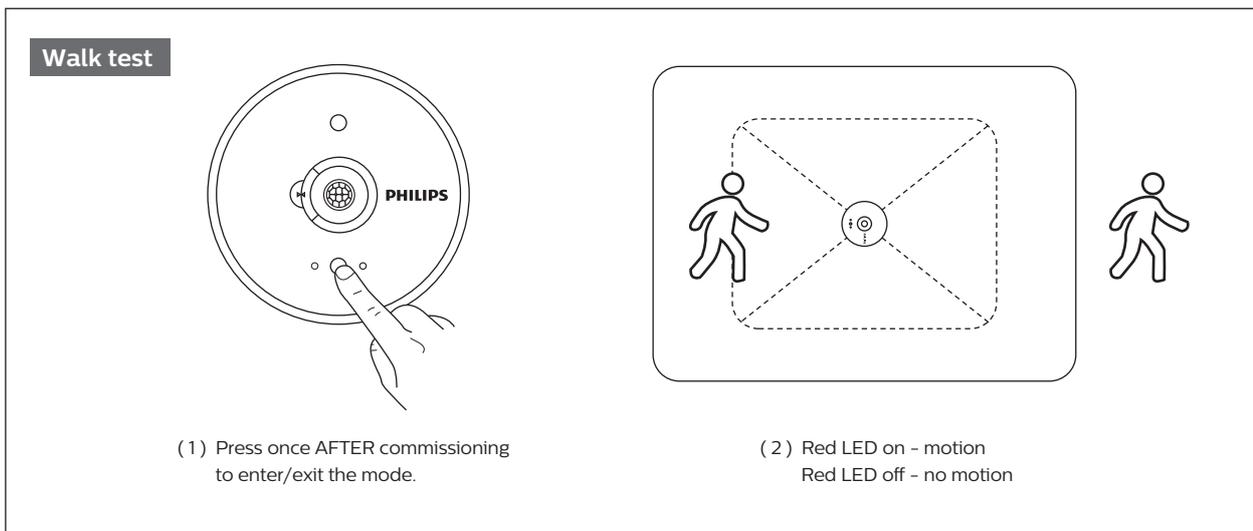
- Motion FOV can be reduced using the plastic shield around the lens.



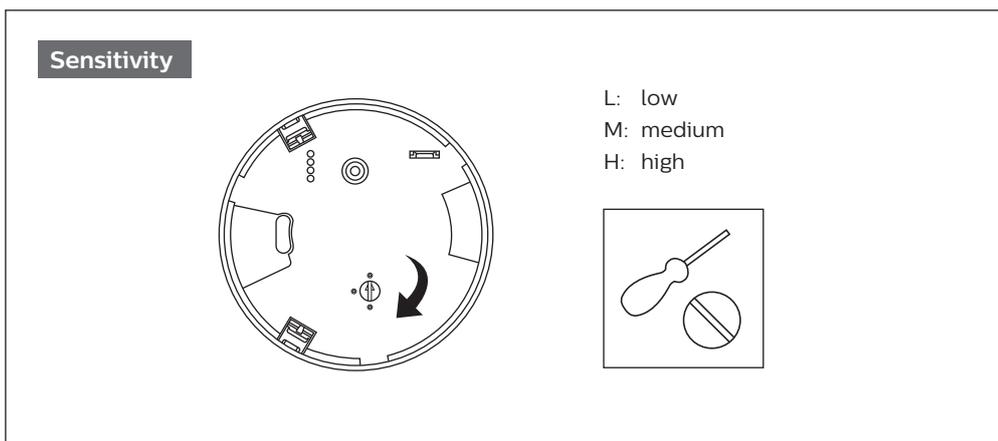
Installation Instructions



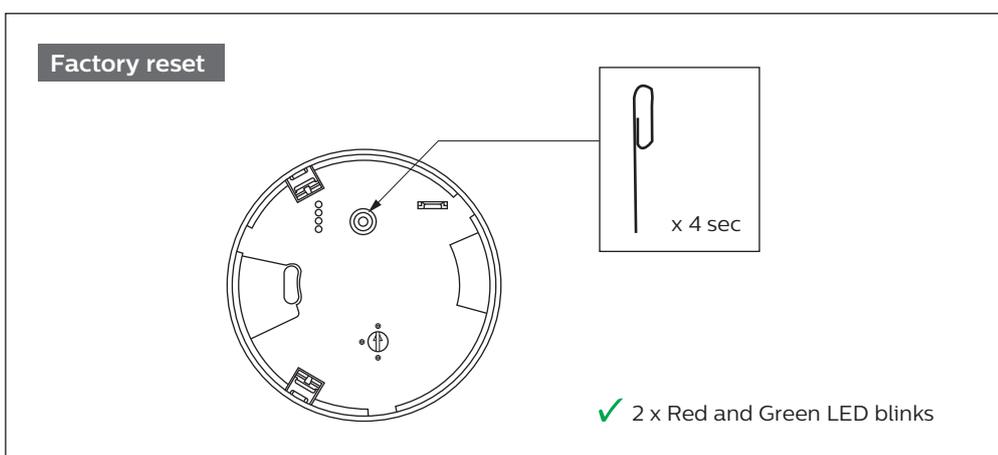
- A walk test will help to determine the optimal location to place the sensor by quickly testing the occupancy detection coverage. It's ONLY possible after sensor has been commissioned.



- 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).



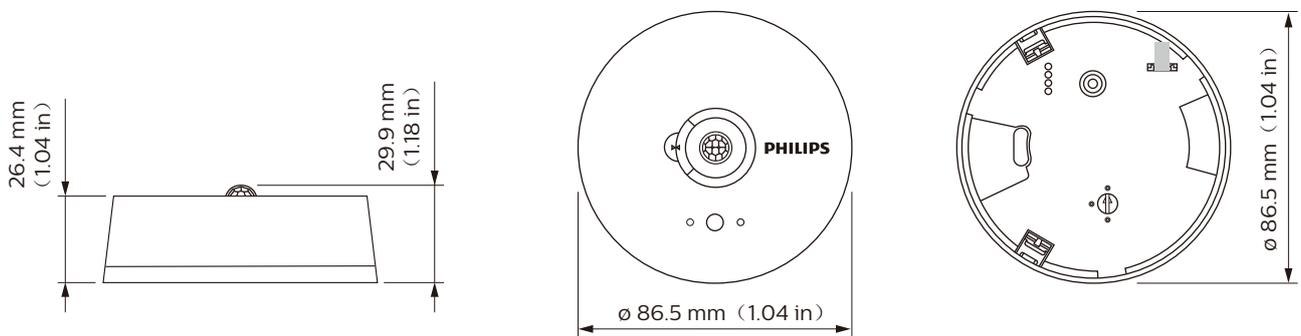
- Performing factory reset will restore sensor to un-commissioned status. Sensor will be removed from current network (if any).



LED indicator

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

Dimensions



Temperature

Operating temperature	T _{operating}	min -5°C	max +45°C
Storage temperature	T _{storage}	min -25°C	max +65°C

Technical Specs and Order Information

Product number	Product Description	Type	Mounting height	FOV at h=2.5m	Battery lifetime	RF range open-air	Daylight level
			(m)	(sqm)	(yr)	(m)	(lux)
9290018190	OCC SENSOR IA CM WH	Occupancy, ceiling mounted	<=4	40	>8	15	--
9290018191	OCC-DL SENSOR IA CM WH	Occupancy and daylight, ceiling mounted	<=4	40	>8	15	1-2000

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/warranties.
- 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.



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