**Specification Sheet**

# OCC SENSOR IA CM IP65 WH / OCC-DL SENSOR IA CM IP65 WH

Philips wireless occupancy sensor and multi sensor, which are Interact Ready, mean easy upgrade to a smart lighting system.

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 occupancy detection and daylight variation.

The sensor is designed for waterproof applications and low to mid-bay heights.

# LCN3110/05, LCN3120/05

## Product Features

### Occupancy Detection

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

### Daylight Sensing

- High accuracy of ambient light measurement from approximately 1 to 5 000 lux at floor level
- Closed loop daylight regulation
- Daylight fast report for calibration

### Installation

- Battery-powered, no mains wire required
- Walk test mode available for optimal detection
- Waterproof applications

### 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
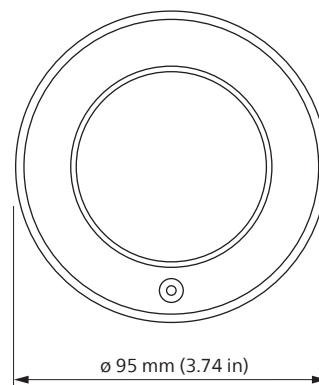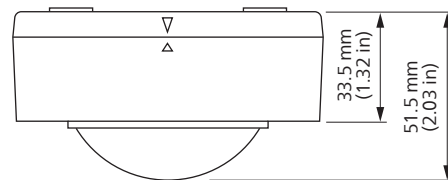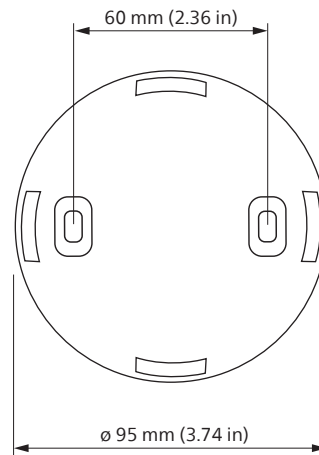- Easy commissioning

### Control Functionality

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

### Reliability

- Reliable operation between –40 °C and +50 °C ambient temperature.*
- IP65 (IEC standard 60529)
- Battery life > 10 years
- MTBFP (Meantime Before False Positive motion sensor) > 500 hours at medium sensitivity
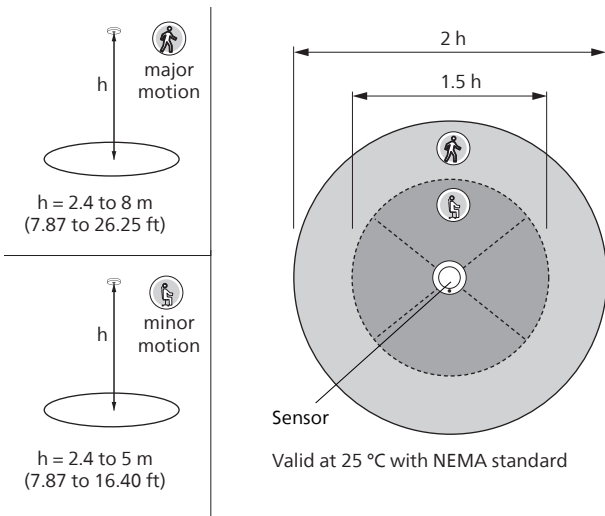
* PIR sensing performance is affected by the difference in temperature between the moving object and the ambient.
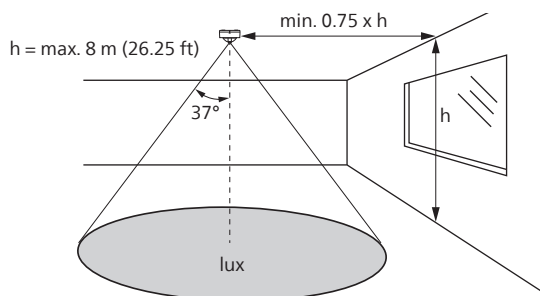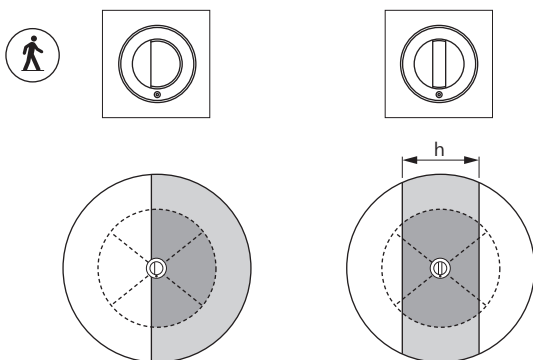
## Dimensional drawings
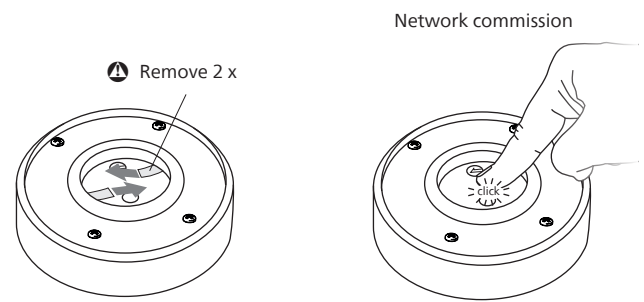
## Field-of-View

### Field of view motion



h = 2.4 to 8 m
(7.87 to 26.25 ft)

major
motion

minor
motion

h = 2.4 to 5 m
(7.87 to 16.40 ft)

2 h

1.5 h

Sensor

Valid at 25 °C with NEMA standard

### Field of view daylight
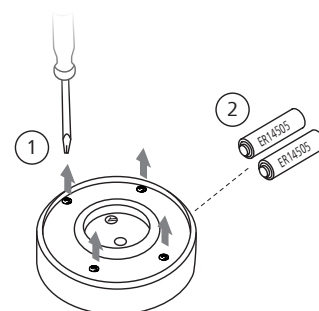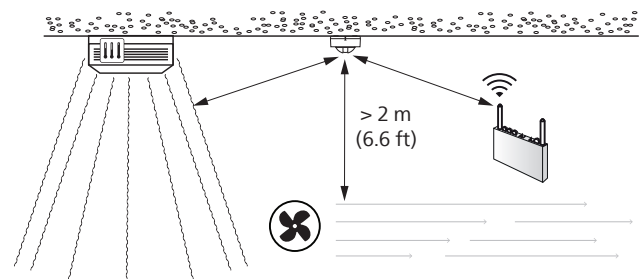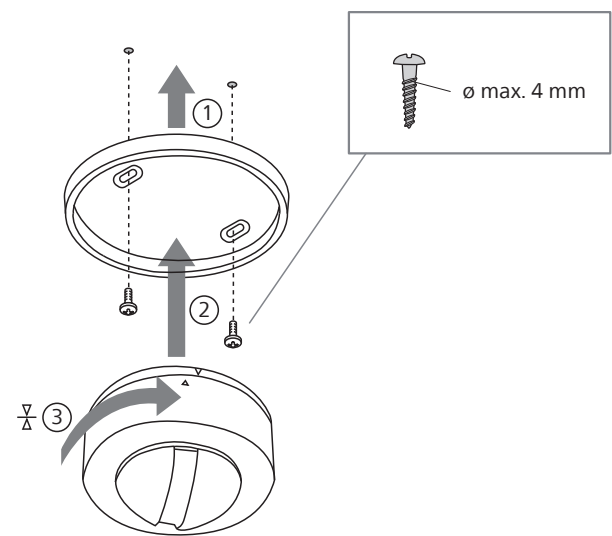


h = max. 8 m (26.25 ft)

min. 0.75 x h

37°

lux

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



h

## Installation Instructions

Network commission



Remove 2 x

⚠ **Important**
Commission the product before installing it!



ø max. 4 mm
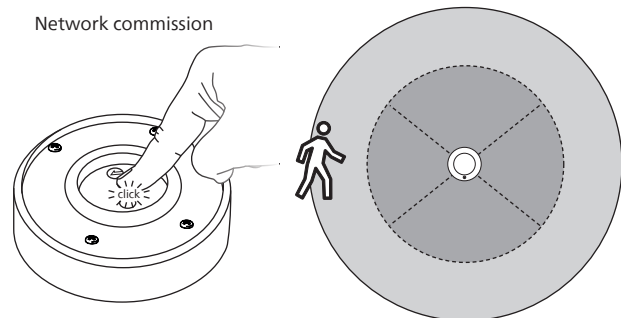


> 2 m
(6.6 ft)



ER14505

**Note**
Battery replacement must be done by skilled or instructed person.

⚠ **Caution**
Risk of explosion if the battery is replaced by an incorrect type. Dispose of used batteries according to local instructions.

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.
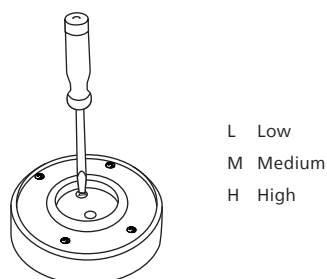
## LED indicator

### LED pattern

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

**Walk test**

Network commission



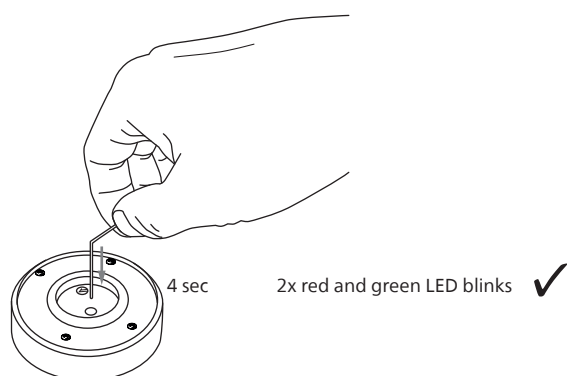| | |
|---|---|
| 1  Press once AFTER commissioning to enter/ exit the mode | 2  Red LED ON - motion Red LED OFF - no motion |

- 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 (Medium as default).

**Sensitivity**



L    Low
M   Medium
H    High

- Performing a factory reset restores sensor to un-commissioned status. Sensor is removed from current network (if any).

**Factory reset**



4 sec          2x red and green LED blinks    ✔

# Specifications

## General

| | |
|---|---|
| Weight | 0.175 kg |
| Material | Polycarbonate |
| Color | White Ral 9003 |
| Mounting height | 2.4 to 8 m (7.87 to 26.24 ft) |
| Battery lifetime | > 10 years |
| RF range open-air | 15 m |
| Daylight level | 1 to 1 500 lx at sensor surface |

## Functional

| | |
|---|---|
| Motion detection | OCC SENSOR, OCC-DL SENSOR |
| Daylight | OCC-DL SENSOR |

## Environmental

| | |
|---|---|
| Temperature | |
| operational | −40 to +50 °C* |
| storage | −40 to +70 °C |
| Humidity | 0 to 95% non-condensing |

## Compliances

| | |
|---|---|
| IP rating | IP65 |
| Certifications | CE, UKCA, UL |

\* PIR sensing performance is affected by the difference in temperature between the moving object and the ambient.

CE UKCA cULus

## Ordering Data

| Type | Region | MOQ | Ordering number |
|---|---|---|---|
| LCN3110/05 OCC SENSOR IA CM IP65 WH EU | Europe | 1 | 9137 010 43903 |
| LCN3110/05 OCC SENSOR IA CM IP65 WH NA | North America | 1 | 9137 010 43913 |
| LCN3120/05 OCC-DL SENSOR IA CM IP65 WH EU | Europe | 1 | 9137 010 44003 |
| LCN3120/05 OCC-DL SENSOR IA CM IP65 WH NA | North America | 1 | 9137 010 44013 |

www.philips.com/lighting

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