

**PHILIPS**

LCN3110/05,  
LCN3120/05



## 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 2.4GHz 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 ~1-5000 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

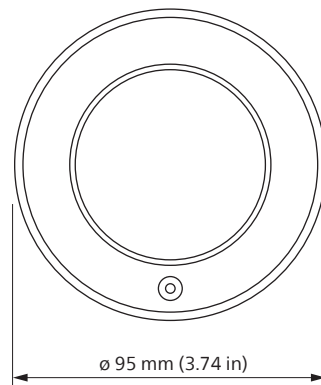
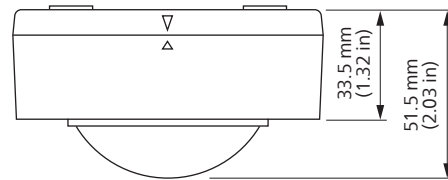
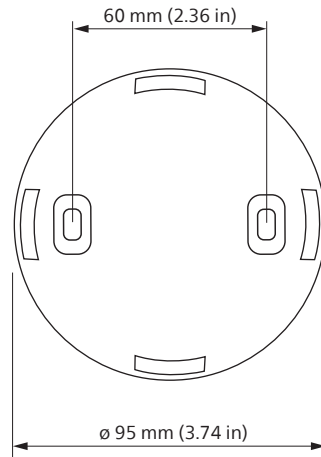
- Automatic light control based on occupancy detection and daylight sensing
- Adjustable sensor parameters for personalized lighting behaviors

### 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 hr at medium sensitivity

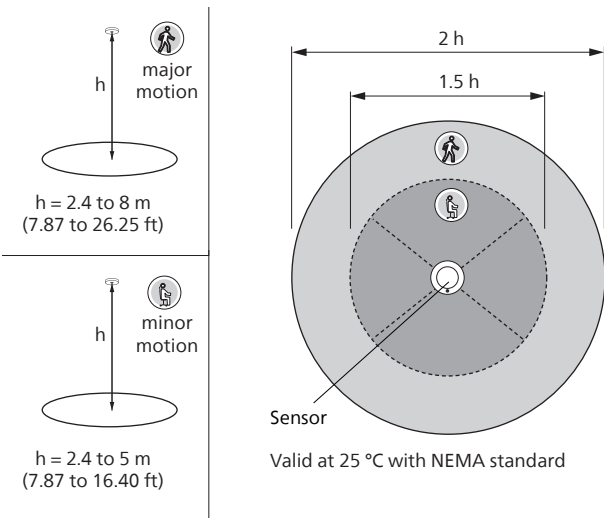
\* PIR sensing performance is affected by the difference in temperature between the moving object and the ambient.

## Dimensional drawings

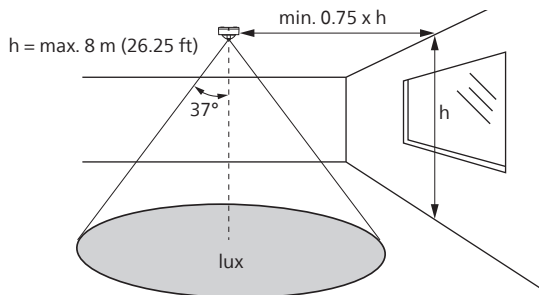


## Field-of-View

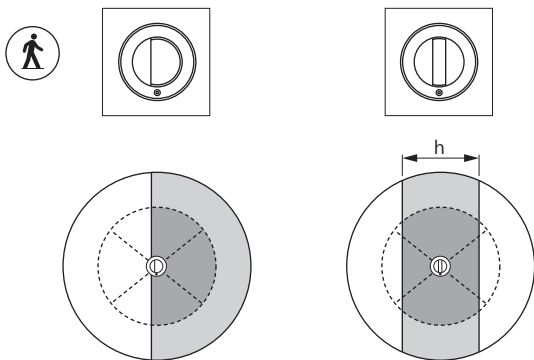
### Field of view motion



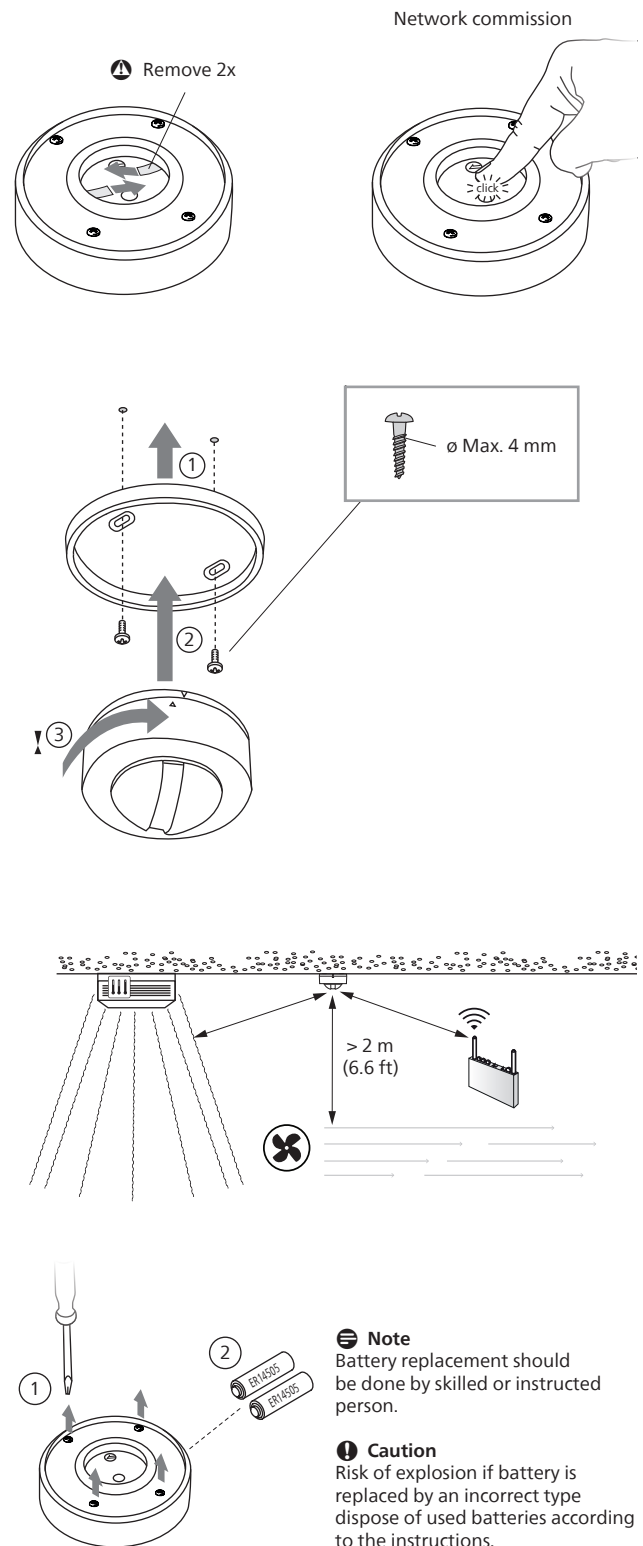
### Field of view daylight



Motion field of view can be reduced using the plastic shield on top of the lens

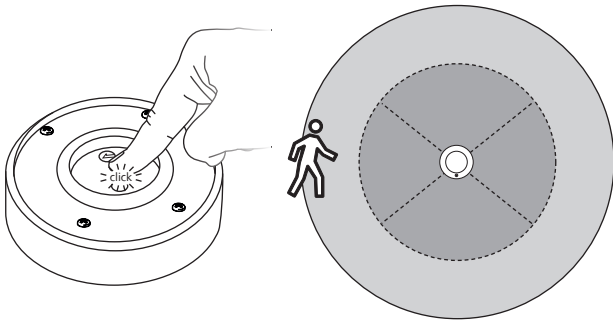


## Installation Instructions



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.

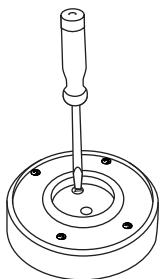
**Walk test**



- 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).

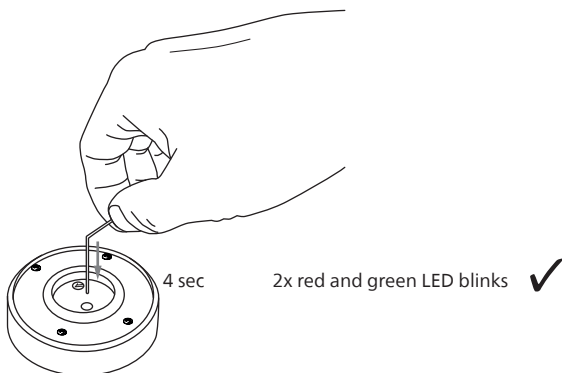
**Sensitivity**



- L Low
- M Medium
- H High

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

**Factory reset**



**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 |

# Specifications

## General

|                   |                                 |
|-------------------|---------------------------------|
| Weight            | 0.175 kg                        |
| Material          | Polycarbonate                   |
| Color             | White Ral9003                   |
| 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 1500 lux 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

|                |              |
|----------------|--------------|
| Certifications | CE, UKCA, UL |
|----------------|--------------|

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



## 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  |

© 2019-2022 Signify Holding. All rights reserved. Specifications are subject to change without notice. No representation or warranty as to the accuracy or completeness of the information included herein is given and any liability for any action in reliance thereon is disclaimed. Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V. All other trademarks are owned by Signify Holding or their respective owners.



[www.philips.com/lighting](http://www.philips.com/lighting)