

**PHILIPS**

Sensors

EasyAir

Occu-DL MP 8M sensor MC



## Datasheet

# EasyAir Occu-DL MP 8M sensor MC

With the Philips EasyAir mains powered 8M sensor presence detection and daylight based light regulation can be added to wireless lighting systems up to 8m mounting height and waterproof applications. The sensor is mounted stand-alone but electrically connected to mains power. It triggers automatic responses to turn on/of or dim the lights according to occupancy detection and daylight variation - for more energy savings and enhanced flexibility in your space.

The Philips EasyAir mains powered sensor is commissioned via Bluetooth and the Philips MasterConnect app. The sensor communicates with the lights in the network via Zigbee.



## Product features

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### Occupancy Detection

- Passive Infrared (PIR) technology to detect occupancy accurately.
- Diameter Field-of-View twice the mounting height.

### Daylight Sensing

- High accuracy of ambient light measurement from 1-1500 LUX
- Closed loop daylight regulation
- Daylight fast report for calibration

### Installation

- Mains powered 230V 50Hz/60Hz
- Mounting height 2.1m - 8m
- Indoor use

### Connectivity

- 2.4GHz ZigBee mesh networking technology.
- Reliable and secure wireless communication, nominal range 15m line of sight.
- Easy commissioning via Bluetooth.

### 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 65°C ambient temperature.
- IP66 ingress protection
- IK08 mechanical impact protection

## Ordering Information

Commercial product name	Colour	Description	EOC	12NC	MOQ
EasyAir Occu-DL MP 8M sensor MC	White	Stand alone mid-bay mains powered sensor	8721103114754	929004850501	6

## Product Data

All specifications are typical and at 25 °C Tcase unless otherwise specified.

### Physical Information

Overall Dimensions	Φ 96.2 mm x 56.3 mm
Net Weight per Piece	0.19 kg
Wiring	30 cm H05RN-F 60245IEC57(YZW) black cable, 2x solid core 0.75mm <sup>2</sup> , 8.5 ±1 mm strip length, Insulation: EI4(IE4) + (EPR), Jacket: EM2(SE4) + (CPE)

### Electrical Information

Input Voltage	220 - 240 V, 50Hz/60Hz
Nominal Power Consumption	< 0.5 W
Frequency	2.4 GHz
Surge protection	2 kV (line to neutral) 4 kV (line/neutral to earth)

### Occupancy Sensing

Type	Passive infrared (PIR)
Occupancy Based Control	Default enabled
Occupancy Mode	Auto on/off, Manual on/off, Manual on/auto off; Red LED indicates occupancy detected
Hold Time	2 - 100 minutes
Prolong Time	2 - 100 minutes + infinite
Viewing Angle	See detection pattern

### Daylight Sensing

Daylight based control	Enabled/disabled. Default Enabled with target light level of “~200lux X Eco-ON%”.
Calibration	Selectable. Light Level calibrated to “Max light output from fixture X Eco-ON%”.
Viewing Angle	2x 27°

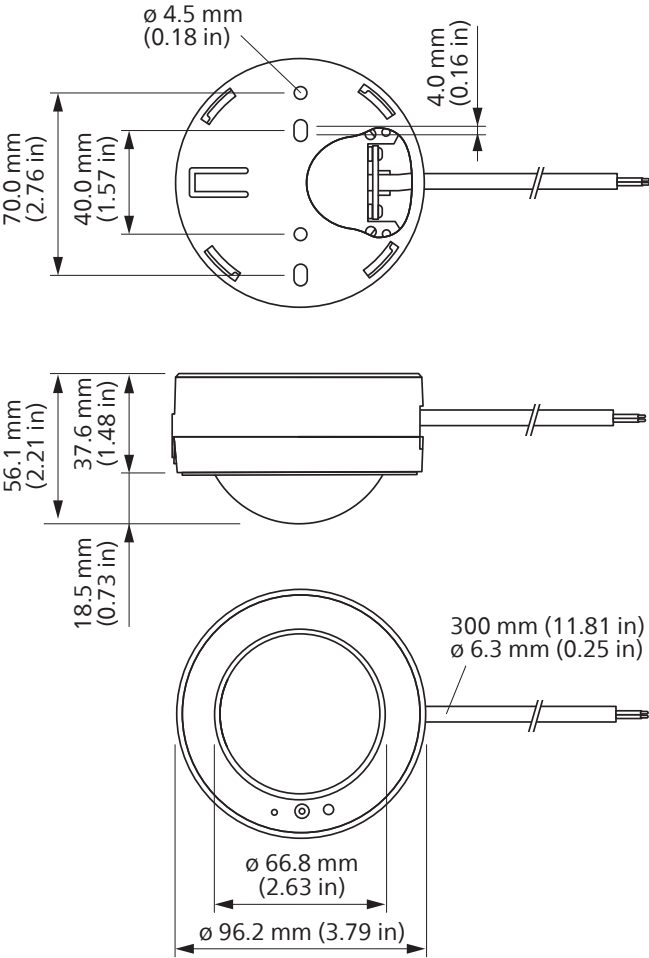
### Environment & Approbation

Operating Ambient Temperature Range	-40 °C to 65 °C
Operating Humidity	20 – 85% non condensing
Storage Temperature	-40 °C - 85 °C
Storage Humidity	10 - 95% non condensing
Ingress Protection	IP66
Mechanical protection	K08
Agency Approbations	CE, ENEC, UKCA, CB, WEEE
Applications	Indoor (no protection against aggressive chemicals)
Warranty	5 years

### Other

Wireless protocol	2.4 GHz, IEEE 802.15.4
Encryption	AES - 128
Status Indicators	After commissioning: Red LED on: Motion is detected; Yellow LED on: Vacancy detected & Sensor is functional
Max Distance Sensor-to-Luminaire	15 m line-of-sight to first luminaire
Field Configuration	via BLE, parameters set via Philips MasterConnect app
BLE range for user to sensor	15 m line-of-sight
Installation height	2.1 to 8 m

Dimensions

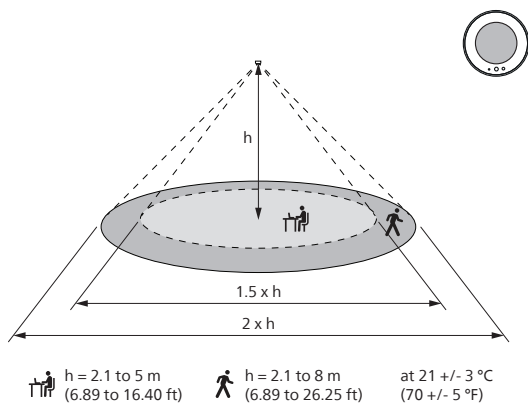


## Field of view

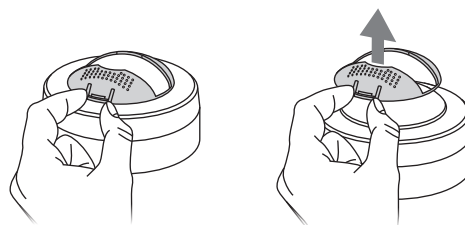
### Occupancy Sensing

#### Field of view motion without lens shield

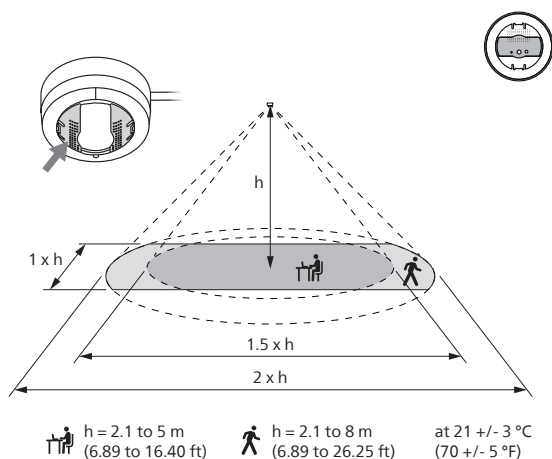
Remove the shield on top of the lens to achieve complete detection area of a sensor.



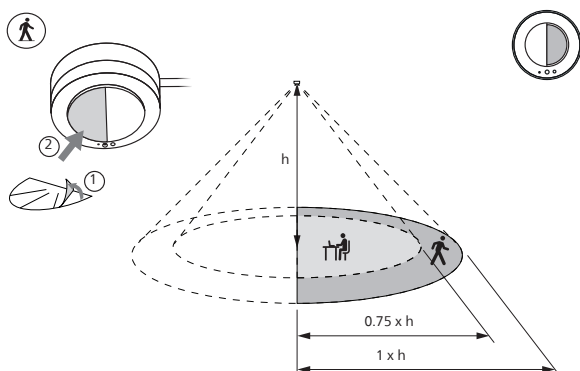
How to remove the lens shield:



#### Field of view motion with lens shield for rectangular field of view



#### Field of view motion with lens shield for hemisphere field of view



#### Note

As PIR based sensing works on temperature difference between the subject and ground level, the occupancy detection could vary due to clothing and size of the subject.

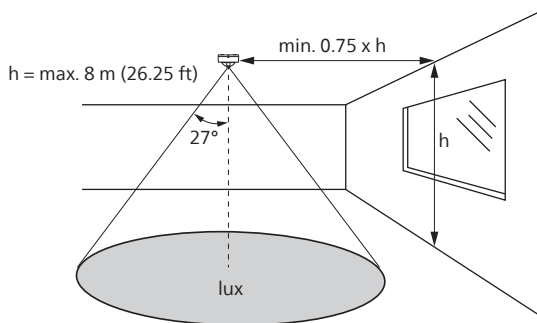
## Field of view

### Daylight Sensor

The light sensor measures the total amount of light in a circular field for  $2 \times 27^\circ$  opening angle. The following aspects should be observed during installation:

- Minimum distance from the window  $\geq 0.75 \times$  mounting height.
- Prevent light reflections from outside entering the sensor (for example sunlight reflection on a car bonnet) as this will lead to incorrect light regulation.

### Field of view daylight

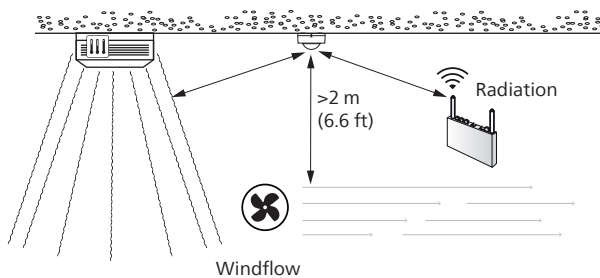


## Safety warnings and installation instruction

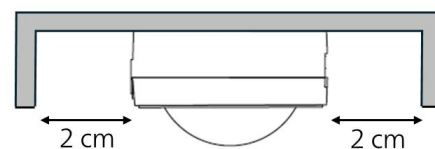
### Warnings

- Avoid touching live parts!
- Do not use damaged products
- Do not use the product with damaged wires
- Do not service the sensor when the mains voltage is connected

### Installation instruction

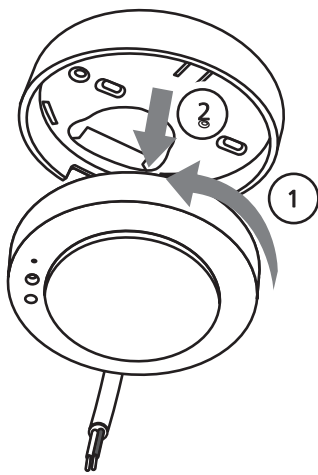


Keep at least 2m distance from air flows to avoid false triggers.

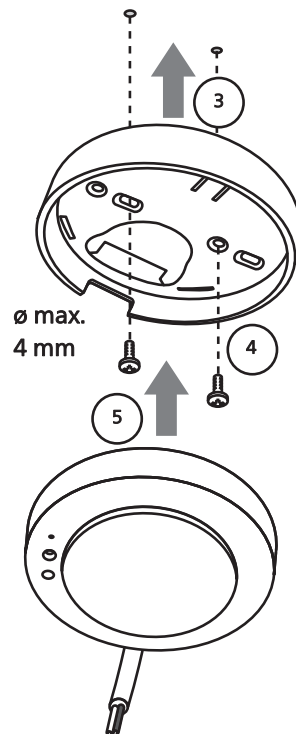


Keep a distance of  $> 2\text{cm}$  to other objects when mounting the sensor

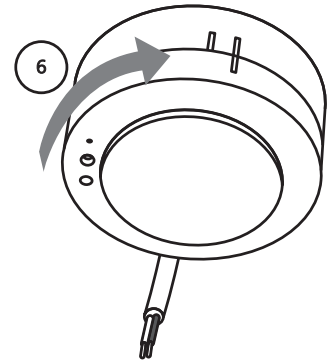
### Installation instruction



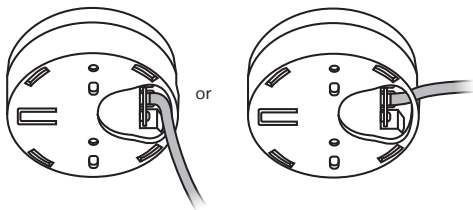
Remove the sensor from its mounting base, by first twisting it to unlock.



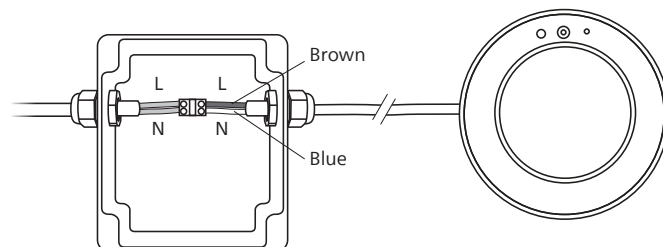
Screw the mounting to the ceiling and put the sensor back on it.



Lock the sensor with a twist.



Cable output can be to the top or to the side.



Connect the sensor to mains voltage.

### Disclaimer

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Data subject to change

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