

**PHILIPS**

Ledinaire

Office Sensor



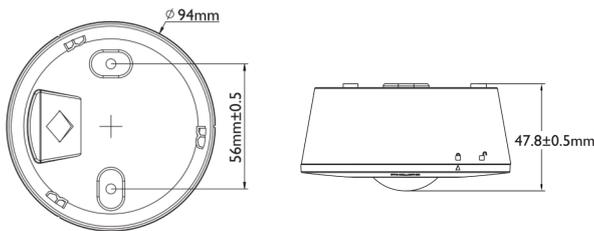
For more details on EcoSet system, installation and control scan the QR code.



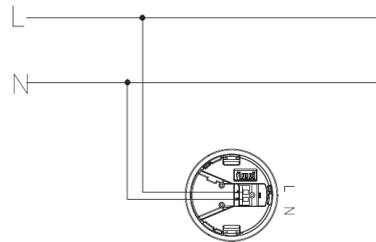
### Mounting Instructions

|                                    |   |                                      |   |
|------------------------------------|---|--------------------------------------|---|
| <b>12NC</b>                        | 911401562943  | <b>Sensor settings via dipswitch</b> | Hold Time, Background Dimmed Level, RF Power, Mode (Normal/ demo) |
| <b>Full description</b>            | EXT2010 OCC DL PIR AC Sensor RS WH ESW                              | <b>Power supply</b>                  | 220-240VAC 50/60Hz  |
| <b>Motion detection technology</b> | Passive Infrared with optional retractable shield                   | <b>Standby Power</b>                 | <0.5W   |
| <b>Daylight sensing</b>            | Automatic dimming based on daylight threshold (default is disabled) | <b>Storage Temperature</b>           | -25°C to 85°C   |
| <b>Mounting</b>                    | Ceiling mounted. Surface or recessed                                | <b>Operating temperature</b>         | -20°C to 50°C   |
| <b>Installation height</b>         | 2.5–5m (3m typical)   | <b>Ingress Protection</b>            | IP20 (for Indoor use only)  |
| <b>Detection distance</b>          | 5m radius @ 3m height, detection angle 360°                         |                                      |   |

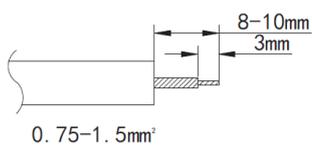
### Dimensions



### General wiring diagram



### Supply cable

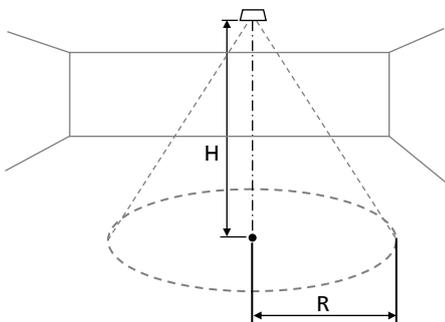


### Sensor settings



- = OFF
- △ = ON
- = ON or OFF

### Detection characteristics



| Height (H) | Minor movement (R)<br>e.g. Arm movements | Major movement (R)<br>e.g. Walking |
|------------|--|------------------------------------|
| 3m         | 3m                                       | 5m                                 |

All sensor related specifications are typical at 25°C ambient temperature.

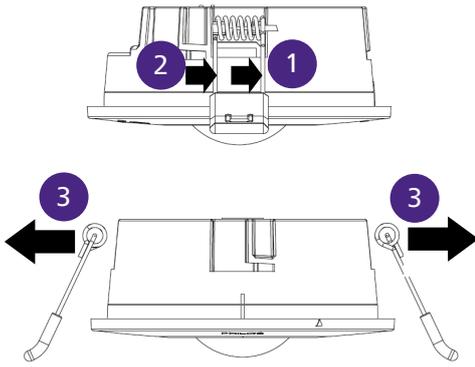
Movement definition is with respect to NEMA WD7.

|                | *Default           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|----------------|--------------------|---|---|---|---|---|---|---|---|
| Hold time      | 3min ± 18s *       | ● | ● | - | - | - | - | - | - |
|                | 10min ± 1min       | ● | △ | - | - | - | - | - | - |
|                | 15min ± 1.5min     | △ | ● | - | - | - | - | - | - |
|                | 30min ± 3min       | △ | △ | - | - | - | - | - | - |
| Dimmed level   | 20% ± 2% *         | - | - | ● | ● | - | - | - | - |
|                | 30% ± 3%           | - | - | ● | △ | - | - | - | - |
|                | 50% ± 5%           | - | - | △ | ● | - | - | - | - |
|                | 70% ± 7%           | - | - | △ | △ | - | - | - | - |
| RF Transmitted | Max. (~12 - 15m) * | - | - | - | - | ● | ● | - | - |
|                | High (~8 - 12m)    | - | - | - | - | ● | △ | - | - |
|                | Middle (~5 - 8m)   | - | - | - | - | △ | ● | - | - |
|                | Low (~3 - 5m)      | - | - | - | - | △ | △ | - | - |
| Mode           | Normal*            | - | - | - | - | - | - | ● | - |
|                | Demo               | - | - | - | - | - | - | △ | - |
| N/A            | -                  | - | - | - | - | - | - | - | - |
|                | -                  | - | - | - | - | - | - | - | - |

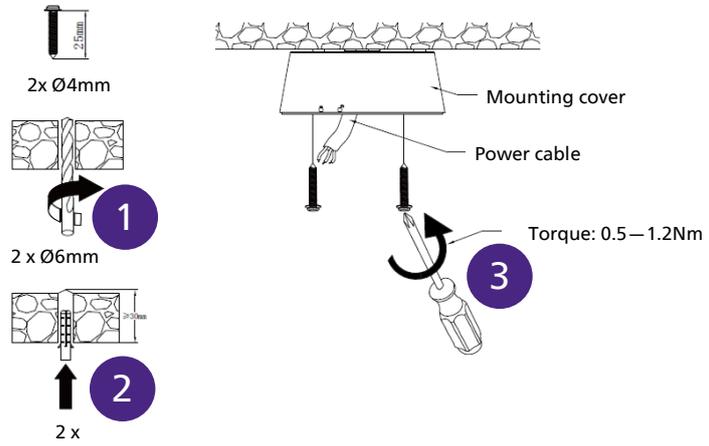
1 Energy savings thanks to automated dimming and motion sensing in comparison to Ledinaire EcoSet with regular Ledinaire luminaires of the same specification.

## Surface mounting preparation

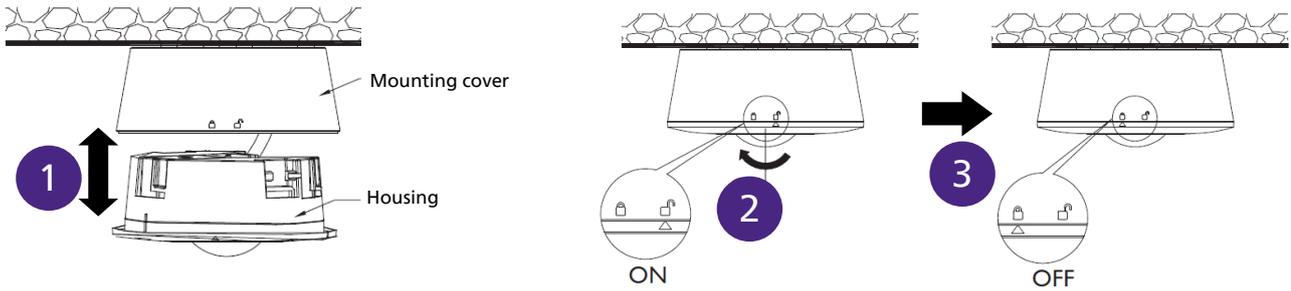
Remove spring.



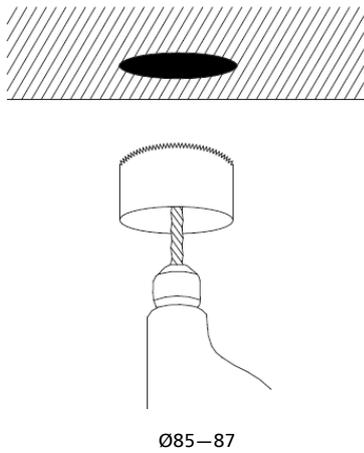
## Ceiling Preparation – Surface mounting



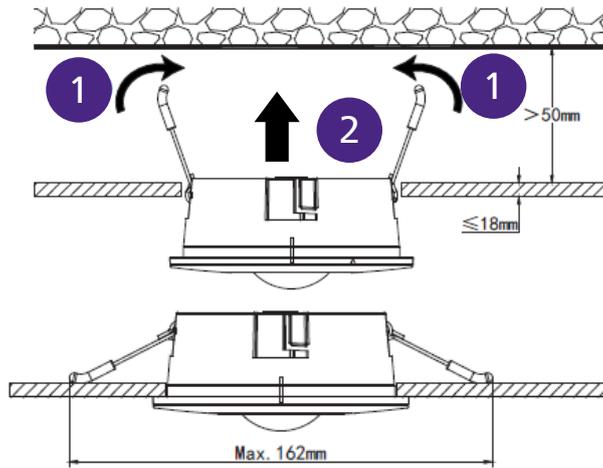
## Sensor assembly – Surface Mounting



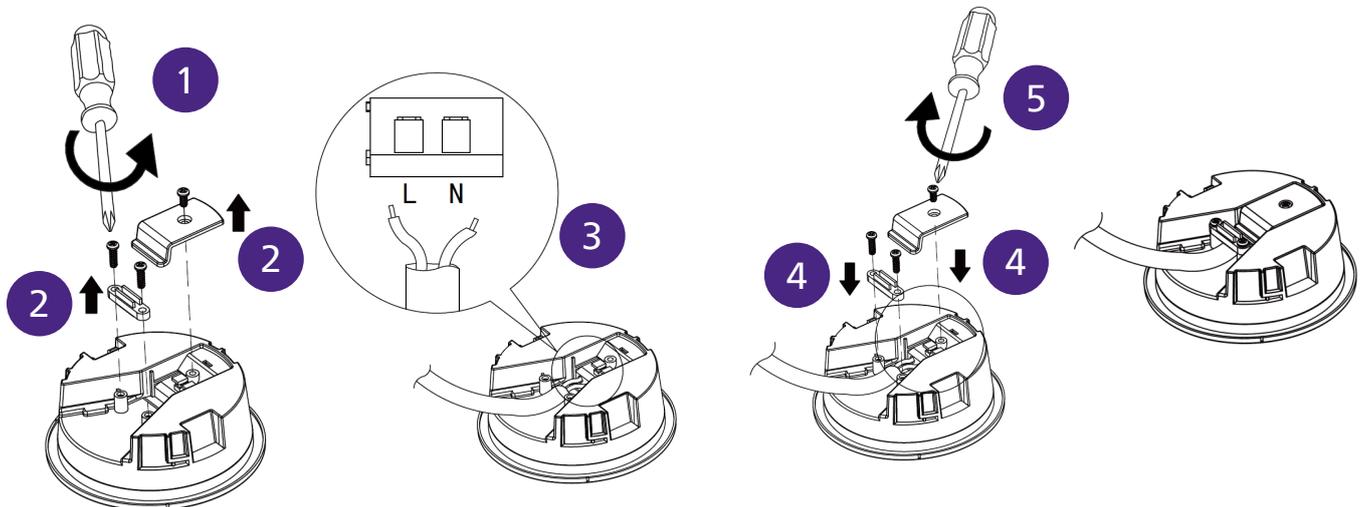
## Ceiling Preparation – Recessed



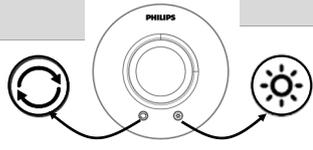
## Sensor assembly – Recessed Mounting



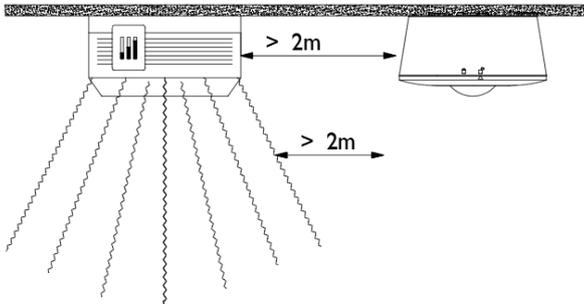
## Sensor Wiring



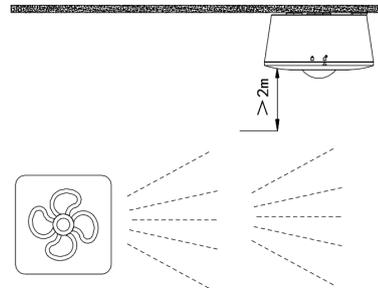
## Function Buttons

| Press time  | Function mode              |   | Press time  | Function mode                                     | Indicator Flashes & light level |
|-------------|----------------------------|---|-------------|---|---------------------------------|
| 0.1s - 1.5s | Search & enter group       |  | 0.1s - 1.5s | Daylight brightness level adjust                  | 1 = 50%*, 2 = 20%, 3 = 75%      |
| 5 - 10s     | Active learning            |   | 5 - 10s     | Switch On/Off daylight sensing (default disabled) | * default                       |
| > 10s       | Reset (to factory setting) |   | > 10s       | Switch On/Off motion detection                    |                                 |

## Installation guidance



The sensor should be installed at least 2 meters away from any heat source. This includes air conditioning and heating equipment.



The sensor installation should be more than 2 meters away from the location of any air outlet, which includes air outlets and air conditioning outlet, or fans.



Please read these instructions and installation guidance carefully before installing or using this product.

- There should be no obstructions within the sensing range.
- Keep sensors away from routers and other signal devices (Zigbee, WIFI, etc.).
- The infrared sensor works by sensing the difference in temperature between the target and the environment. In winter, if a person is heavily dressed it is possible that the sensor will not be able to sense the difference; in summer, the sensing distance will be reduced when the temperature is close to the human body temperature.
- The sensor should be installed away from large equipment where strong electromagnetic radiation and surges may interfere with or damage the sensor.
- Airflow with a temperature difference from the ambient temperature passing through the sensor's sensing range may cause the sensor to be falsely triggered. Sources include fans, air conditioning vents inside and outside, ventilation ducts, natural air, air convection, etc. These air flows passing tangentially through the sensor are more likely to cause false triggering.
- False triggering of the sensor may also be caused by changes in temperature caused by equipment within the sensor's sensing range, including but not limited to heat generating equipment, refrigeration equipment, fireplaces, large equipment and other equipment whose own temperature can change.
- If too much dust accumulates on the lense area, it will affect the detection distance. If dust has accumulated it is recommended to wipe the lens gently with a soft, dry cloth.
- The sensor should be installed far away from the door or window where there is wind speed and convection, otherwise it may be triggered frequently by mistake.
- It is recommended that sensors be installed at a ceiling height of 3m to ensure motion coverage and detection range.
- Avoid any impact directly on the PIR lense, this can cause damage. If the lens is deformed, contact the dealer to replace it.
- The sensors shall be installed by a qualified electrician and wired in accordance with the latest IEE electrical regulations or the national requirements.
- Avoid storage and use in corrosive environments or environments containing hazardous substances such as sulphides, halogens, phthalates, etc.
- The product is IPX0 and is not waterproof. It is strongly recommend to check and assess the suitability of the environment before installing this product. In the event of water ingress, electrical failure or safety incidents may occur and Philips/Signify will not be liable for this.
- When the ambient temperature of the sensor is greater than 30%, or a human body is covered by thick clothing, the detection distance of the sensor will decrease.
- Do not use metal objects to cover the antenna on the sensor to avoid affecting the transmission distance of wireless signals
- Considering negative influence on wireless signals, ensure that sensors are far away from surrounding steel/metal and concrete structures at the installation site. Such structures will have a negative influence on wireless communication, reducing the transmission distance and reliability.



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