# 0-10V BLE Ceiling Mounted PIR Sensor Controller
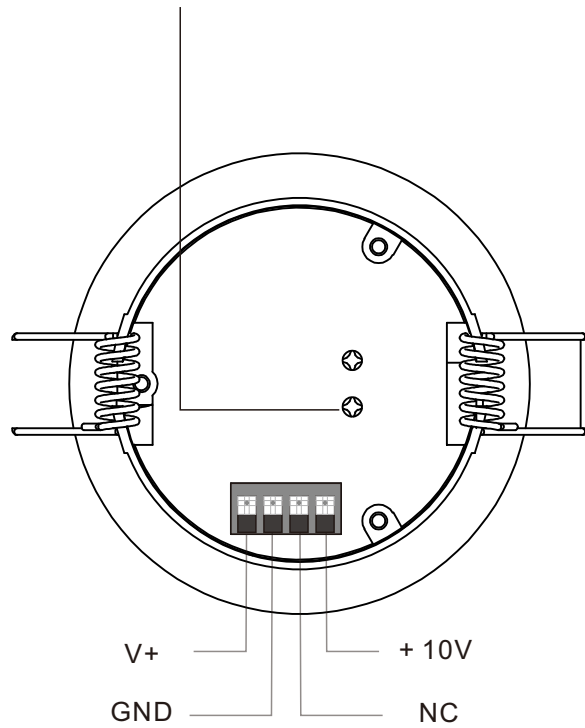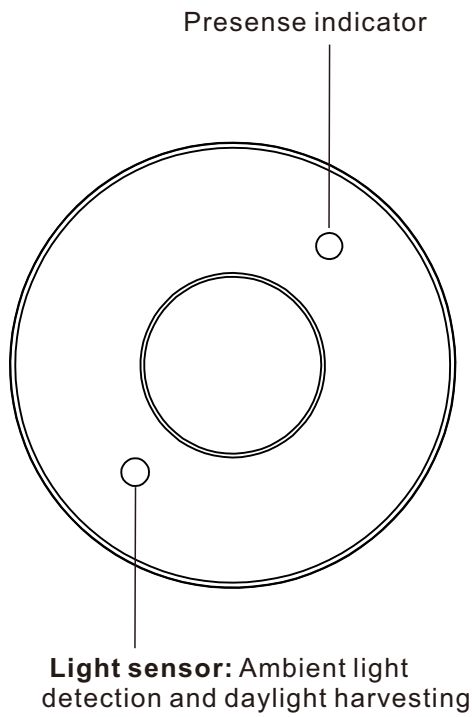


# Product Datasheet

**Please read all instructions before installation**

# Product info

**Reset Key:** Long press it to help withdraw the device from internet/APP LED flashes quickly indicates success.
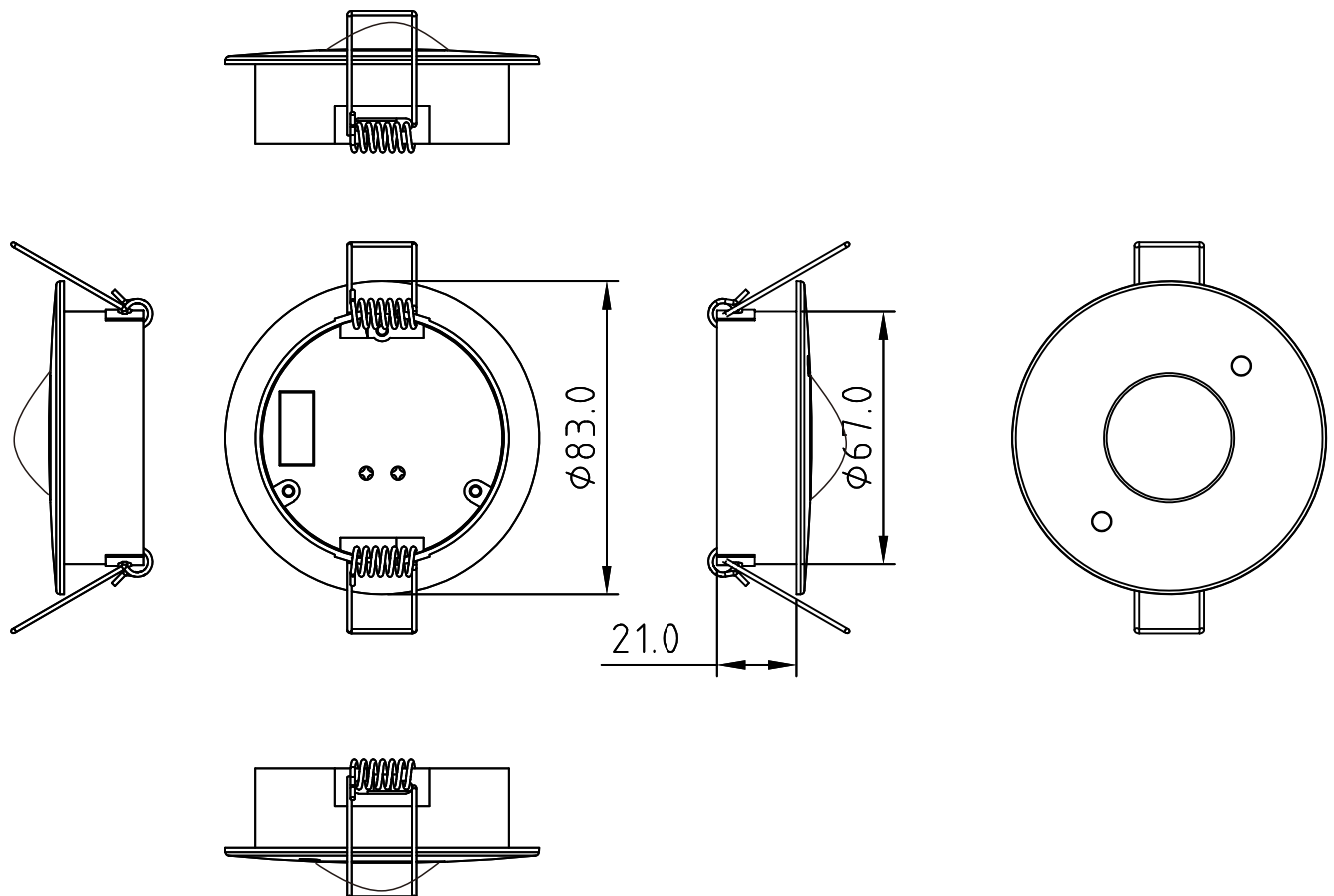
Presense indicator

Light sensor: Ambient light detection and daylight harvesting

V+

GND

+ 10V

NC

NC : No Connection

# Parameters

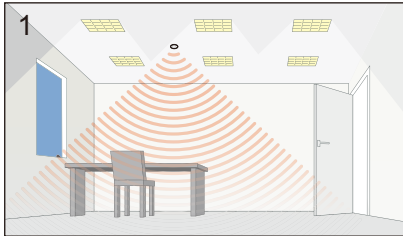| Input | | Output, 0/1-10V | Control | | Environment | | Others |
|---|---|---|---|---|---|---|---|
| Power | Signal | Current | Dimming Curve | Dimming Method | Operating temperature | Relative humidity | Size |
| 12-24VDC | Bluetooth | Max. 20mA | Logarithmic | PWM | -20℃-+50℃ | 8% to 80% | See dimensions |

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# Features

- 0-10V BLE ceiling mounted sensor controller, Bluetooth® mesh network
- PIR sensing with daylight haversting function
- Built-in 20mA 0-10V signal output
- Mesh network, which has a much longer control distance, transmits received signals to neighboring devices
- All devices on 0-10V line are broadcast controlled by mobile application
- Supporting our kinetic energy switches and EnOcean switches EWSSB and EWSDB
- In typical indoor environment, the range for wireless communication is 20m to 25m . Actual range is dependent on field installation.
- On-board antenna
- Available with Magnetic reset (Touch the top part of sensor for 5 seconds)
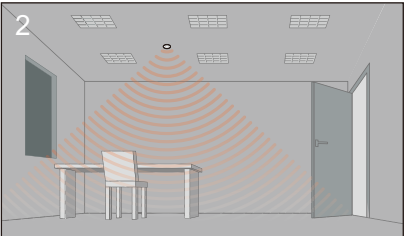- Waterproof grade: Ip20
- 5 years warranty
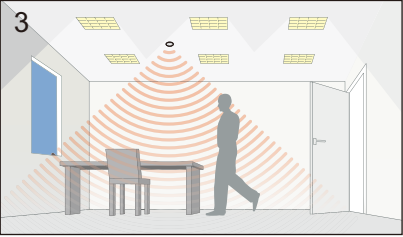
# Dimension



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# Application



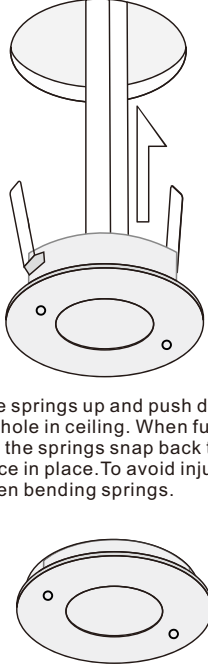1. Power up the sensor. The load should come on immediately.

2. Vacate the room or remain very still and wait for the load to switch off .

3. Enter the room or make some movement and check that the load switches on.

Silvair Commissioning Tools

Bend the springs up and push detector through hole in ceiling. When fully inserted the springs snap back to hold the device in place.To avoid injury, take care when bending springs.

Installation complete.

# Specifications

## ENERGY SAVINGS

• Low/High-end trimming
• Daylight harvesting
• Occupancy/Vacancy detection
• Auto and advanced demand response programs
• Time-of-Day dimming schedule
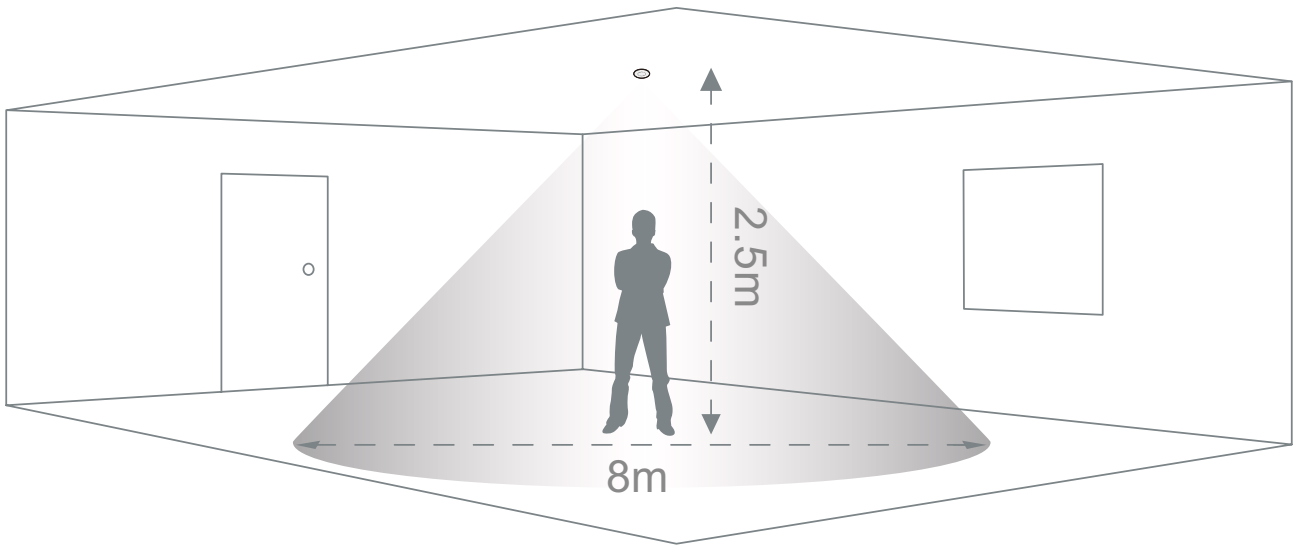• Energy monitoring

## COMFORT & CONVENIENCE

• Advanced occupancy detections
• Light-level stability
• Configurable dim-and-linger occupancy
• Personalized setting profile
• Work with kinetic switch keypad and dimmer wallstation
• Multi-scenes control

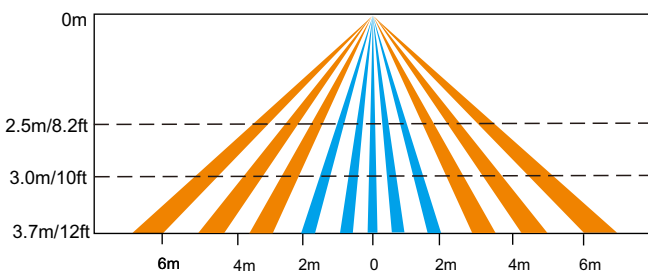## SENSING

• Testing height:  2.5m
• Detection area diameter: 8m @ 2.5m height

## ENVIRONMENT AND APPROBATION

• Operating temperature: -20°C to 55°C
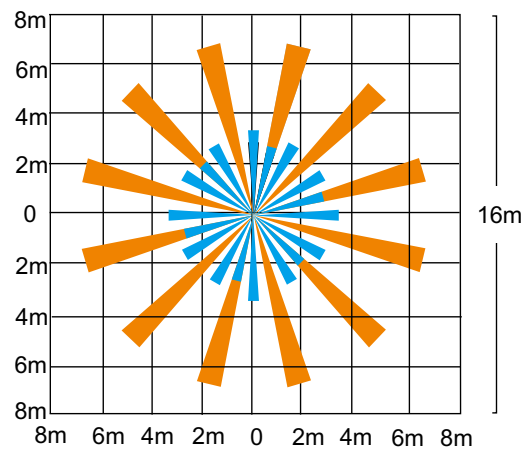• Agency approbations: CE/RoHS/UL  Comming soon…
• Warranty: 5 years

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## Detection Pattern



2.5m

8m

### Coverage Side View



0m

2.5m/8.2ft

3.0m/10ft

3.7m/12ft

6m 4m 2m 0 2m 4m 6m

The detection area for movement sensor can be roughly divided into two parts:

Slow movement (person moving < 1.0'/s or 0.3m/s)

Quick movement (person moving > 1.3'/s or 0.4m/s)

### Coverage Top View



8m
6m
4m
2m
0
2m
4m
6m
8m

8m 6m 4m 2m 0 2m 4m 6m 8m

16m

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## Warning

- DO NOT install with power applied to device
- DO NOT expose the device to moisture

## Operation

- Do wiring according to connection diagram
- Kindly refer to **Silvair commissioning User Manual** for further pairing
- Press and hold down the "Reset" button on the controller over 5 seconds until the indicator flashes , which means it has been reset .
- Available with Magnetic reset (Touch the top part of sensor for 5 seconds)

## Wiring



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