SUNRICHER

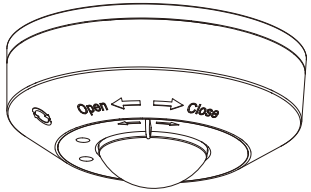
Technology Partner
SILVAIR Work with Silvair

BLE to 0-10V Ceiling Mounted AC PIR Sensor With Relay

SR-SV9030B-PIR-HBV

Features

- Bluetooth to 0-10V sensor controller
- Bluetooth® NLC Certified
- 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
- Autonomos sensor-based control
- Support sensitivity adjustment, Mesh Network, a better method to deal with false trigger
- Available with Magnetic reset (touch reset icon for 5 seconds)
- On-board antenna
- Waterproof grade: IP20, suitable for indoor luminaries
- 5 years warranty



Bluetooth CE UKCA RoHS COMPLIANT

Parameters

Input & Output Characteristics	
Operating voltage	100-277VAC 50/60Hz
Stand-by power	<0.5W
Relay	Max.5A @ 120V, 277VAC

Environment Parameters	
Operation temperature	Ta: -10°C ~ +50°C
IP rating	IP20

Safety & EMC	
EMC standard (EMC)	EN55015, EN61000, EN61547
Safety standard (LVD)	EN60669-1, EN60669-2-1 AS/NZS60669-1/-2-1
RED	EN300328, EN301489-1/-17
Certication	ENEC, CE, RED,UL

Mechanical Data	
Dimension	See below
Material	Flame-retardant/ABS
Protection Class	Class II

Sensing	
Movement detection	Max.φ26m @ 12m height
Installation	Max.12m

Connectors	
Terminal block/Wire size	AC Line: 18 AWG Signal Line: 22 AWG
Wire strip length	10mm

Product info

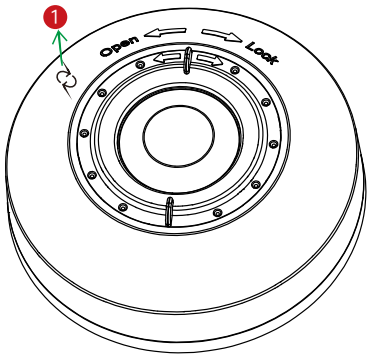
1 Reset icon: Please using magnetic to reset the devices (hold for 5 seconds)

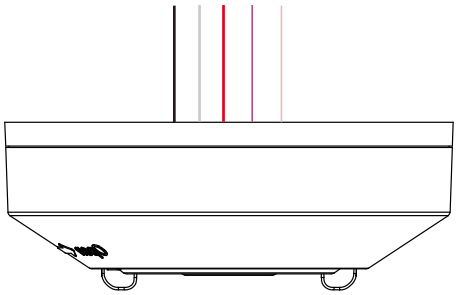
Cable Wiring:

L (Input) : Black, 18 AWG ; N (Input) : White, 18 AWG

L'(Output) : Red, 18 AWG

Dim+ (Input) : Violet, 22 AWG Dim- (Input) : Pink, 22 AWG





Package info

1x **Sensor with High-bay lens** (Default)
1x **Low-bay lens** (Free to switch when project required)
1x **PIR Lens cover** (Adjust its detection pattern when various application required)
1x **A set of screws** (Installation required)

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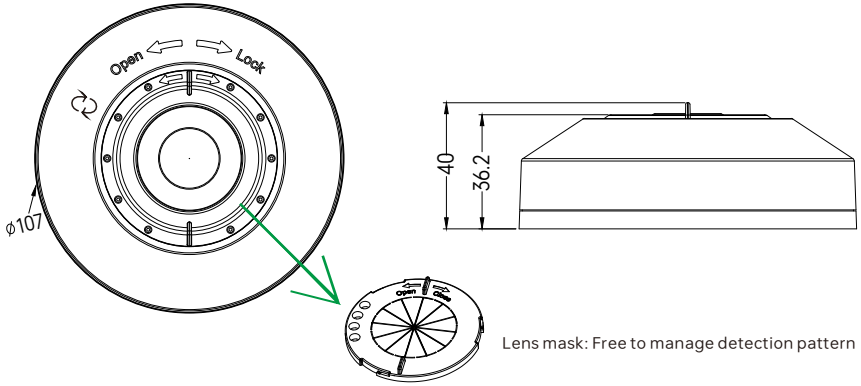
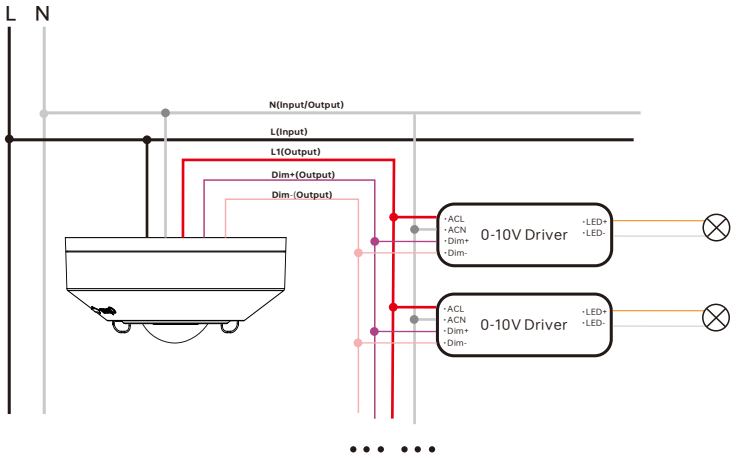
Dimension



Lens mask: Free to manage detection pattern

Wiring

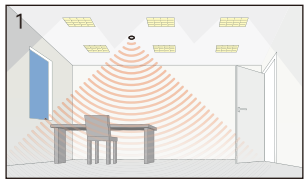


Note: With Max.20mA 0-10V BUS current output, it shall connect Min.10pcs 0-10V Driver.

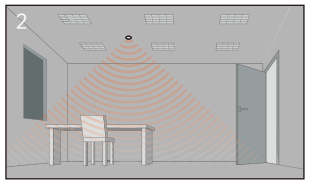
Warning

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

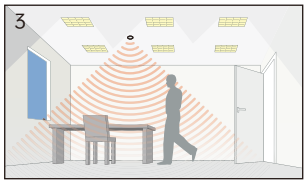
Application



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 .

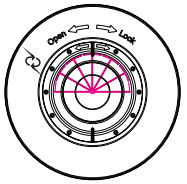


3. Enter the room or make some movement and check that the load switches on.

PRECAUTIONS

- Do not place the SENSOR near heat sources, fans or in ventilated ceiling voids.
- Do not place close to, or positioned such that, any light source points directly into the SENSOR.
- Ensure wires and cables are securely held within the connection terminals.
- Disconnect the SENSOR from the circuit before performing insulation testing of the wiring circuit.

Aisle/Corridor application:
Split the lens cover into aisle type.



Semi-sphere application:
Split the lens cover into Semi-circle type.

Specification

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

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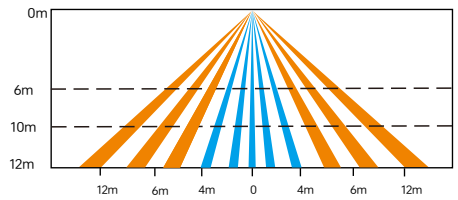
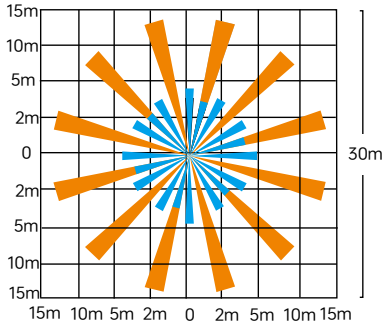
Detection Pattern

Coverage Side View



Coverage Top View



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)

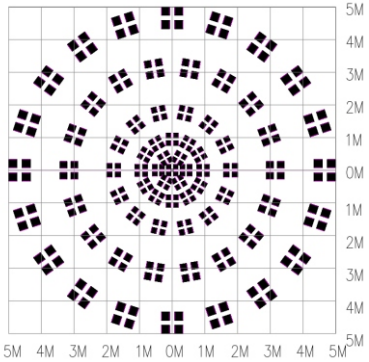
Default sensitivity: 80% (φ23m at 12m height)

Detection Area

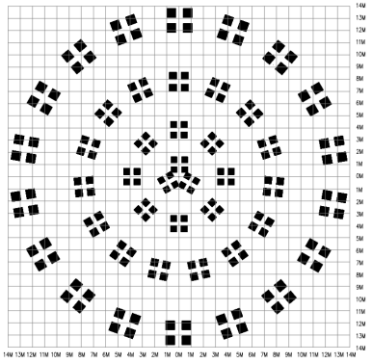
Note:

1) Following different detection areas are based on different installation heights & patterns.

2) Detection Pattern is a relevant value, the performance should depends on the site conditions (installation height/ temperature/ sunlight/ humidity/ Blind area...etc)

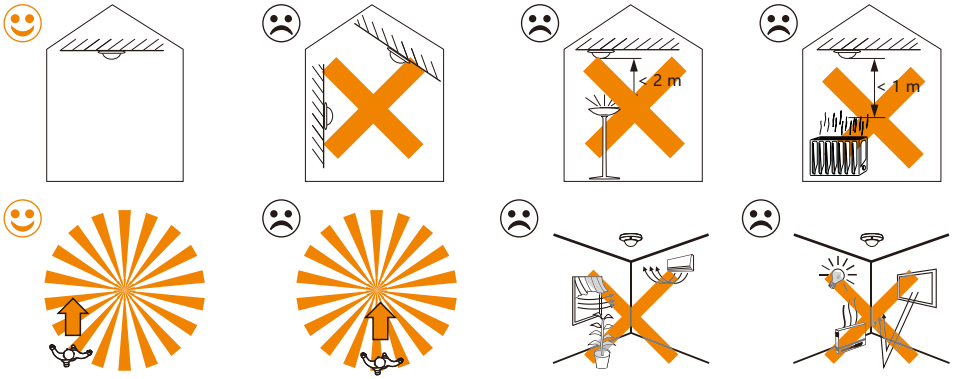


Low-bay lens detection pattern at 3m



High-bay lens detection pattern at 12m

Place/Detection instruction



Installation Precautions

- Avoid areas with frequent temperature changes: Keep away from air conditioners, fans, refrigerators, ovens, and other objects that cause rapid temperature changes. The detection effectiveness of PIR motion sensors is closely related to temperature fluctuations, and vents or heat sources can lead to false alarms.
- Avoid areas with significant air flow.
- Avoid facing glass doors and windows directly: 1) Do not face glass doors and windows directly to avoid interference from strong light. 2) Avoid complex environments outside doors and windows, such as direct sunlight, crowds, and moving vehicles.
- Avoid installing opposite large, constantly moving objects: Large objects with significant motion can cause sudden changes in airflow within the detection area, leading to false alarms. Outdoor PIR motion sensors should not be installed opposite large trees or tall bushes.
- Avoid areas with screens, furniture, large potted plants, or other obstacles within the detection range.
- Avoid areas exposed to direct sunlight.

Update Log

Date	Version	Update Content	Update by
2024-11-11	V1.0	Initial Version	Romeo

Subject to change without notice. Please contact us if you have any questions.