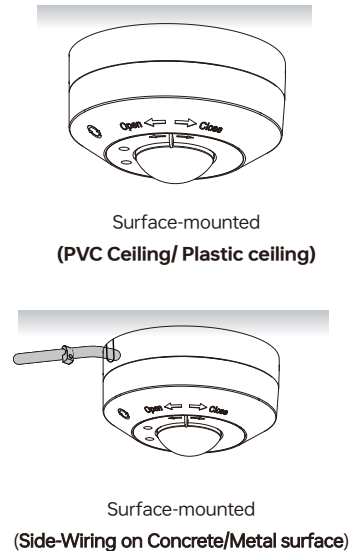


BLE to DALI Ceiling Mounted PIR Sensor Controller



Features

- Bluetooth to DALI sensor controller
- Bluetooth® NLC Certified
- Mesh network, which has a much longer control distance, transmits received signals to neighboring devices
- All devices on DALI 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
- Support the ELT Function (Need to work with DALI EL Driver)
- Available with Magnetic reset (touch reset icon for 5 seconds)
- On-board antenna
- Waterproof grade: IP20, suitable for indoor luminaries
- 5 years warranty



Parameters

Input & Output Characteristics

Operating voltage	Powered by DALI BUS
Output	DALI BUS
Current draw	Max.20mA

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

Environment Parameters

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

Sensing

Movement detection (LB)	Max.φ10-12m @ 3m height
Installation (LB)	2-6m, Max.6m
Movement detection (HB)	Max.φ26m @ 12m height
Installation (HB)	Max.12m

Mechanical Data

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

Connectors

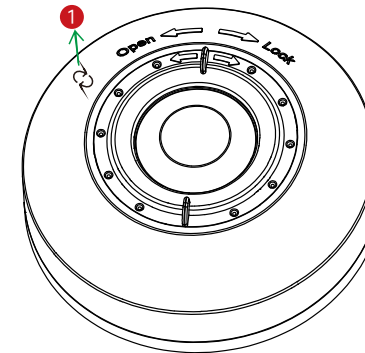
Terminal block/Wire size	AC Line: 18 AWG Signal Line: 22 AWG
Wire strip length	10mm

SILV AIR Technology Partner

Important: Read All Instructions Prior to Installation

Product Info

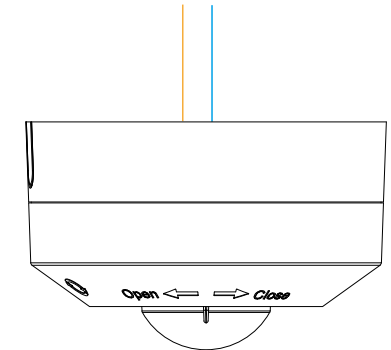
- 1 Reset icon: Please using magnetic to reset the devices (hold for 5 seconds)



Cable Wiring:

DALI+ (Output) : Yellow, 22 AWG

DALI- (Output) : Blue, 22 AWG



Package Info

- 1x **Sensor with Low-bay lens** (Default)
- 1x **High-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)

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

Specification

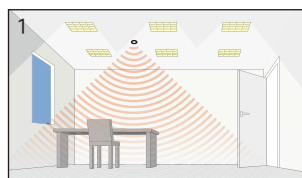
ENERGY SAVINGS

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

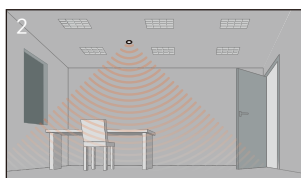
COMFORT & CONVENIENCE

- 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

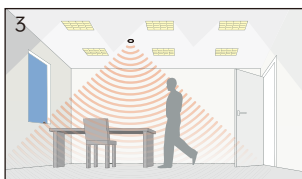
Application



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



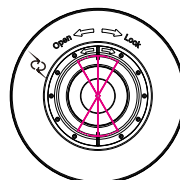
2. Vacate the room or remain very still and wait for the load to switch off.



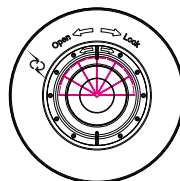
3. Enter the room or make some movement and check that the load switches on.

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.



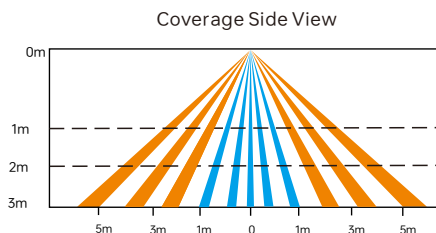
Aisle/Corridor application:
Split the lens cover into aisle type.



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

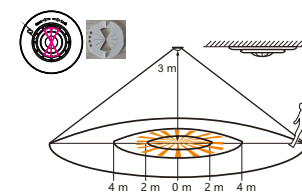
Detection Pattern

With low-bay lens - Cone angle (127°)

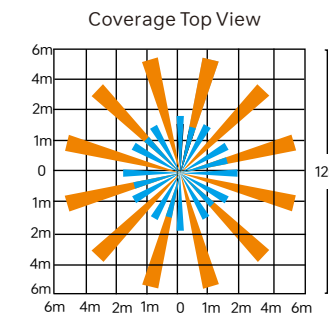


The detection area for movement sensor can be roughly divided into two parts:

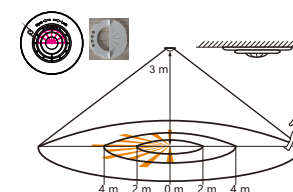
- Blue: Slow movement (person moving < 1.0/s or 0.3m/s)
- Orange: Quick movement (person moving > 1.3/s or 0.4m/s)



With Corridor Lens Mask:
φ4-5m at 3m height

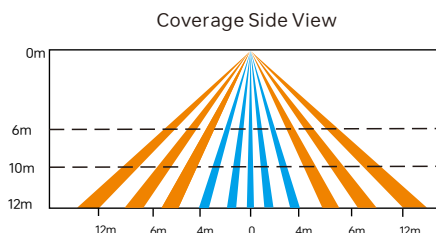


Default sensitivity: 80% (φ9m at 3m height)



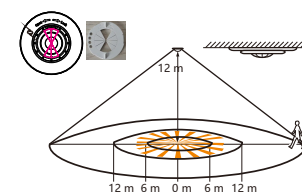
With Semi-Circular Mask:
Half-detection pattern

With high-bay lens - Cone angle (98°)

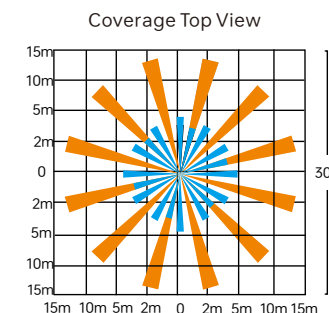


The detection area for movement sensor can be roughly divided into two parts:

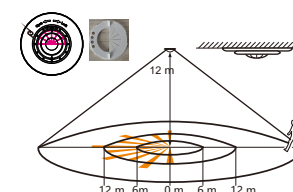
- Blue: Slow movement (person moving < 1.0/s or 0.3m/s)
- Orange: Quick movement (person moving > 1.3/s or 0.4m/s)



With Corridor Lens Mask:
φ6-9m at 12m height



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



With Semi-Circular Mask:
Half-detection pattern

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
2025-10-23	V1.0	Initial Version	Romeo

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