

Thing fixture-intergrated PIR Sensor Controller

IL-TSDALIBIPIR



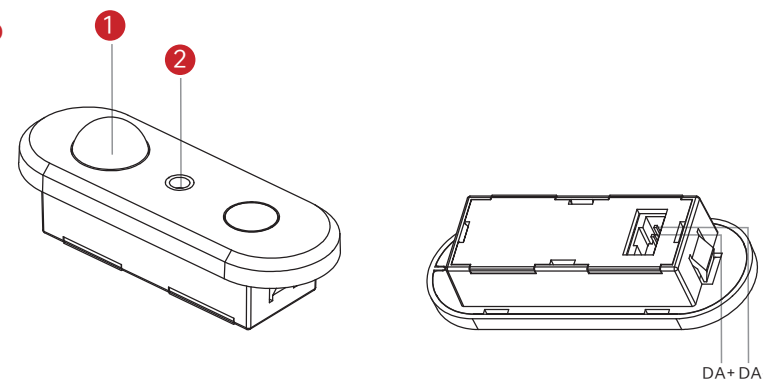
Features

- THINQ to DALI signal PIR sensor controller, Wirepas® network.
- Powered by DALI BUS, extremely user-friendly with DALI systems, especially with the included D4i driver.
- Mesh network capable of transmitting signals over longer distances. Forwards received signals to neighboring devices.
- Supports our kinetic energy switches and EnOcean switches IL-TWALL4BW en IL-TWALL2BW.
- In a typical indoor environment, the typical range for wireless communication is 20 to 25 meters. The actual range depends on the installation in the field.
- Built-in antenna.

Parameters

Input	Power	DALI BUS
	Signal	Wirepas (INGY)
DALI BUS Consumption	Current	Max. 30mA
Control	Dimming Curve	Logarithmic
	Dimming Method	PWM
Environment	Operating Temperature	0°C~+45°C
	Relative Humidity	8% to 80%
Others	Size	See dimensions

Product info

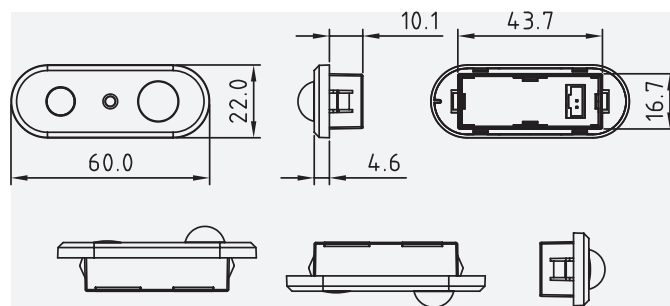


- ① PIR lens
 - ② Light sensor: Ambient light detection and daylight harvesting.
- Note: DA+: Powered by DALI BUS (+), DA-: Powered by DALI BUS (-)

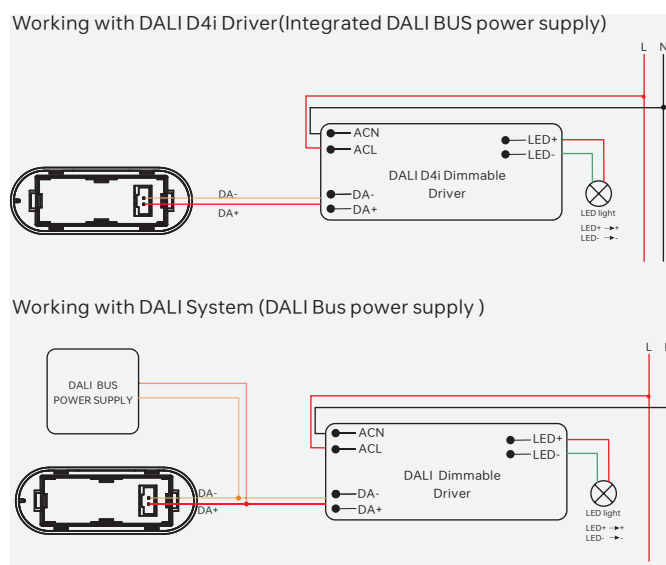
Operation

- Do wiring according to connection diagram.

Dimension



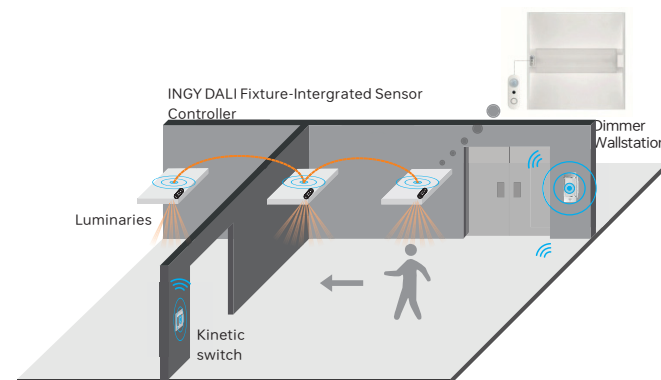
Wiring



Warning

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

Application



Specification

ENERGY SAVINGS

- Daylight harvesting
- Occupancy/Vacancy detection

COMFORT & CONVENIENCE

- Advanced occupancy detections
- Personalized setting profile
- Work with kinetic switch keypad

SENSING

- Testing height: 2.5m
- Detection area diameter: 5m @ 2.5m height

ENVIRONMENT & APPROBATION

- Operating temperature: 0°C to 45°C
- Agency approbations: UL Listed /CE/ FCC/ RoHS...
- Warranty: 5 years



Thing fixture-integrated PIR
Sensor Controller

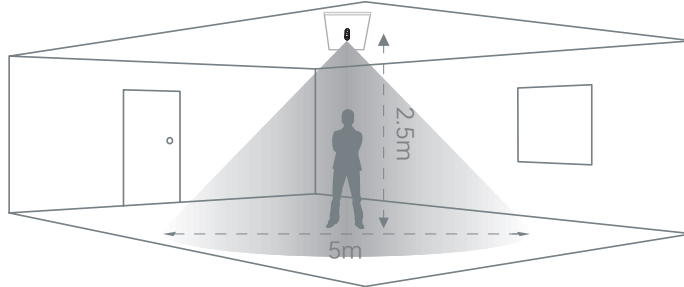
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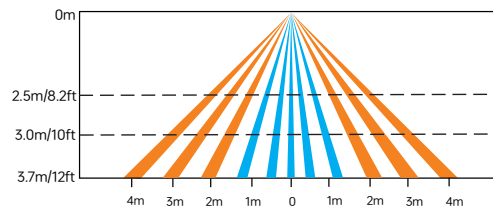
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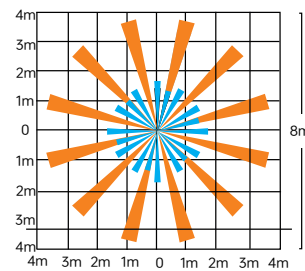
Detection Pattern



Coverage Side View



Coverage Top View



The detection area for movement 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 $0.4m/s$)

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.

THING



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Wireless by design, smart by nature.