



MANUAL

THINQ DALI CEILING MOUNTED AC PIR SENSOR WITH 10A RELAY

IL-TSDALISAW WITH WIELAND GST18I3



INTERLIGHTLED.COM



THINQ

Features

- 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.
- Supports our kinetic energy switches EWSDB.
- Autonomos sensor-based control
- Mesh Range over 40m at open area
- Supports sensitivity adjustment, Mesh Network, abetter method to deal with false trigger
- Recessed mounted/ Surfaced-mounted application • On-board antenna
- IP44, recommend indoor application
- 5 years warranty

Parameters

Input & Output Characteristics

Operating voltage	220 ~240VAC 50/60Hz
Stand-by power	<0.5W
Relay	Max.10A, 400W LED

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, EMC, RED, RCM

Sensing

Movement detection	Typical.10m @ 3m height
Installation	Max.6m

Environment Parameters

Operation temperature	Ta: -20 °C ~ +50 °C
IP rating	IP44(Front-face)
	IP44 (With surface mount kit)

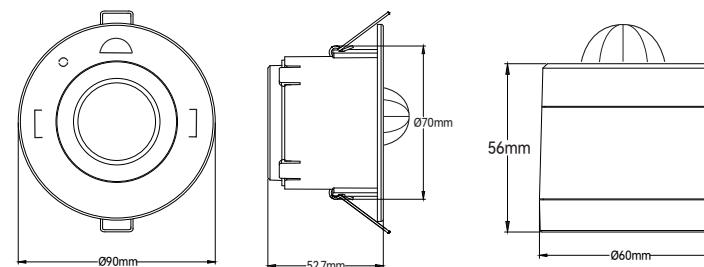
Mechanical data

Dimension	φ90*52mm(without surface kit)
Material	Flame-retardant/ABS
Protection Class	Class II

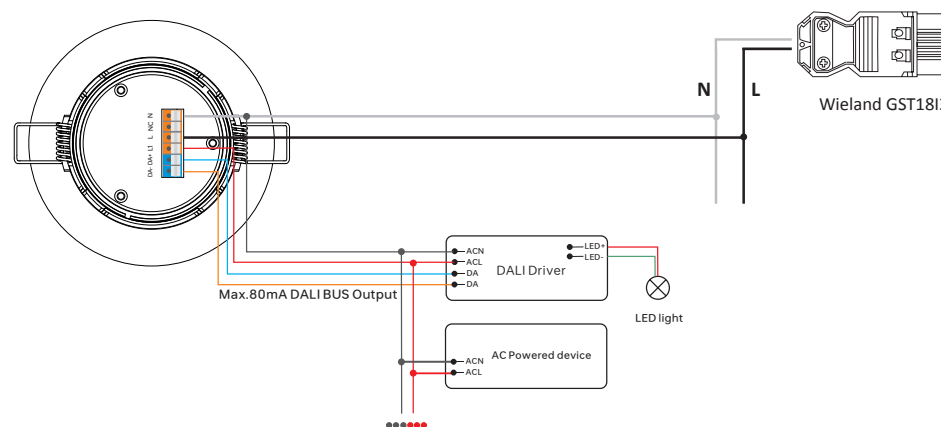
Connectors

Terminal block/Wire size	0.5mm ² - 1.5mm ² solid or stranded
Wire strip length	6-7mm

Dimensions



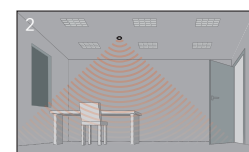
Wiring



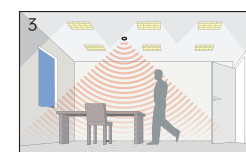
Application



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



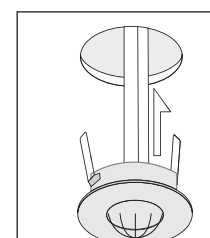
2. Vacate the room or remain very still and wait for the load to switch off.



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

PRECAUTIONS

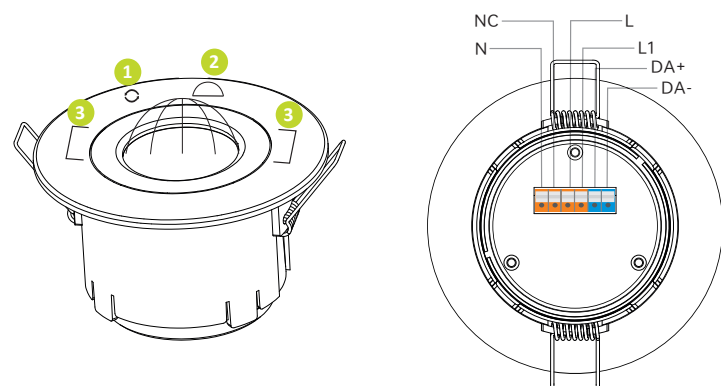
- Do not place the SENSOR near heatsources, fans or in ventilated ceiling voids.
- Do not place close to, or positioned such that, any light source points directly into the SENSOR.
- Ensure wires and cables are securely held within the connection terminals.
- Disconnect the SENSOR from the circuit before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



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.

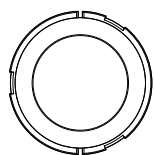


Installation complete.

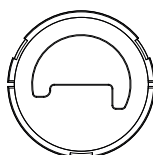


- 1. Magnetic reset. Using magnet close this icon over 5s. Reset successfully, LED quick flash.
- 2. Semi-circular detection pattern icon
- 3. Corridor detection pattern

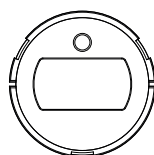
Accessory



No-Block Lens Mask
(Default)

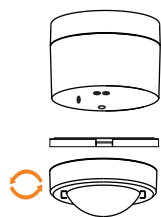


Semi-Circular Lens Mask
(Doors)



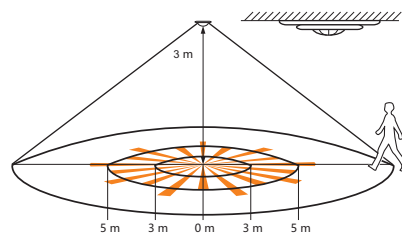
Corridor Lens Mask

1) No-Block Lens Mask



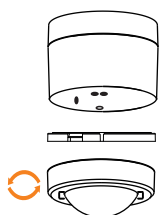
No-Block Lens Mask

1. Turn the sensor cover counterclockwise and put the **No-Block Lens Mask** in.
(Default setting)



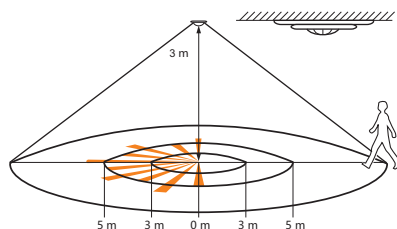
With No-Block Lens Mask: ϕ 8-10m at 3m height

2) Semi-Circular Lens Mask



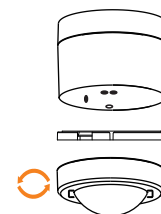
Semi-Circular Lens Mask

1. Turn the sensor cover counterclockwise and put the **Semi-Circular Lens Mask** in.
(Doors)

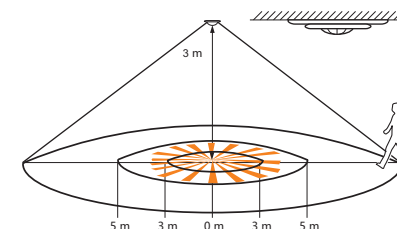


With Semi-Circular Lens Mask: Half-detection pattern

3) Corridor Lens Mask



Corridor Lens Mask



With Corridor Lens Mask: ϕ 6-7m at 3m height

1. Turn the sensor cover counterclockwise and put the **Corridor Lens Mask** in.

1- Average Input Current:	< 30mA
2- Standby-power consumption:	< 0.5W
3- Power Consumption:	<1W
4- Max Tx Power:	+8dBm
5- Number of connected drivers:	Up to 64 contol gears (Broadcast control)
6- Status Indicator:	Red-Movement detection; Green-Network status
7- Detection range:	ϕ 10m@3m Height @ Default sensitivity
Detection Angle:	127°
Operating Range (Light sensor):	1-1000Lx
Light Sensor Accuracy:	±20%
8- Built-in type:	IP44(Front-Face), Class III, ta 45°C, tc 55°C
9- Operating temperature:	-20°C-50°C
Storage temperature:	-25°C-60°C
Operating humidity:	0-80%(non-condensing)
10- Expected Lifetime:	More than 5 years.

Specifications

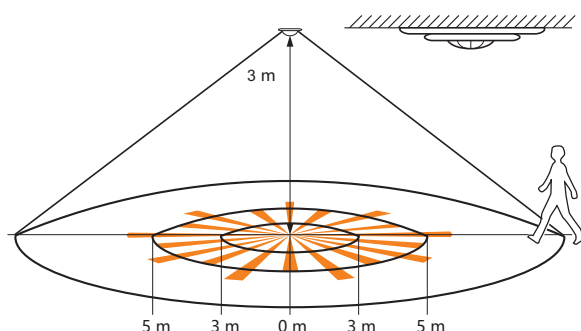
ENERGY SAVINGS

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

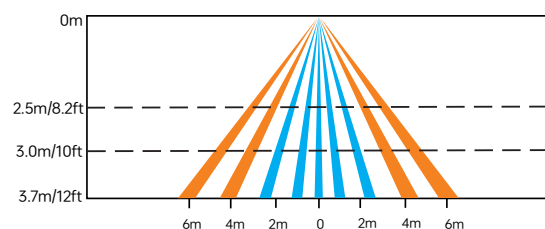
COMFORT & CONVENIENCE

- 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

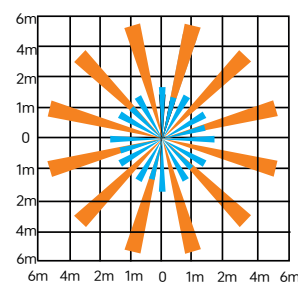
Direction pattern



Coverage Side View



Coverage Top View



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

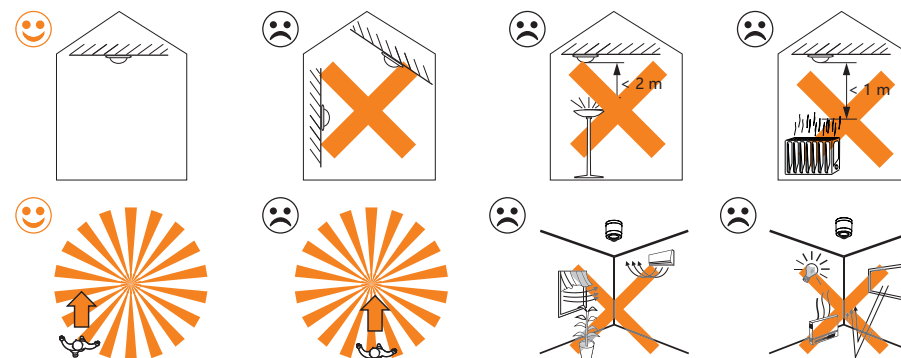
- Slow movement (person moving $< 1.0/s$ or $0.3m/s$)
- Quick movement (person moving $> 1.3/s$ or $0.4m/s$)

DETECTION RANGE

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)

Recommend user application



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 app / website



THING
video



THING

