ORTECH

Product Specification Sheet

# MICROWAVE HIGHBAY SENSOR

## PNP-SENSOR

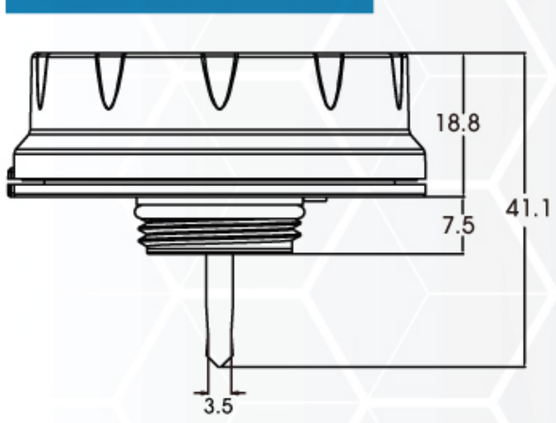
## HIGHLIGHTS

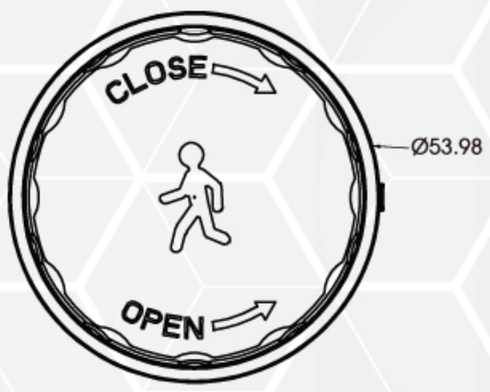
**Microwave sensor head, 12VDC powered with remote control.**

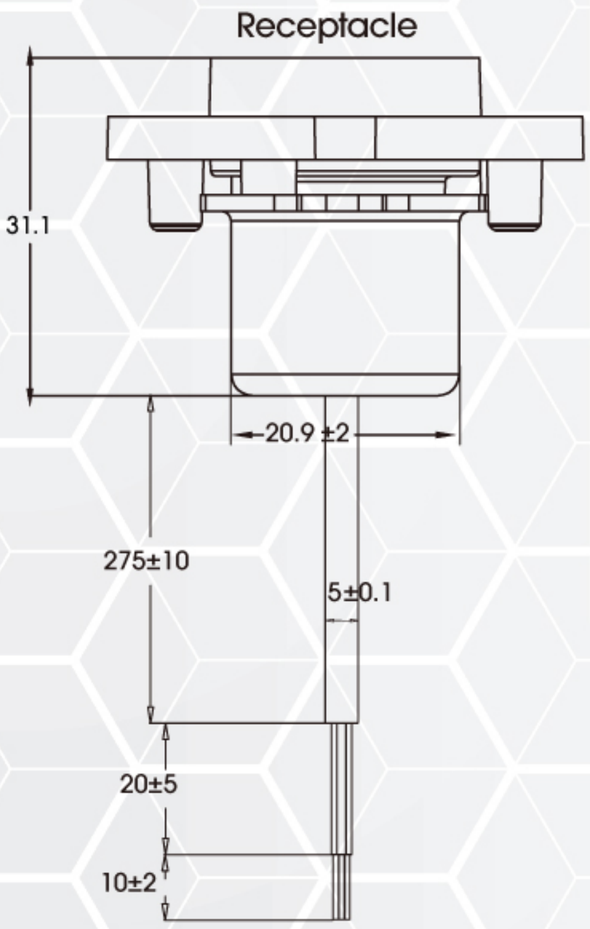
- Bi-level dimming, daylight threshold and dusk/dawn function
- With 3.5mm Jack, suitable for UFO high bay, Linear high bay, Canopies and Area lights application
- **Highest mounting height is 12m**
- Able to differentiate artificial light brightness from natural light after installed inside the fixture, and automatically turn off light when ambient brightness exceeds preset lux level
- Suitable for indoor application, half/completely outdoor environment conditions might be captured as moving signals to trigger the sensor

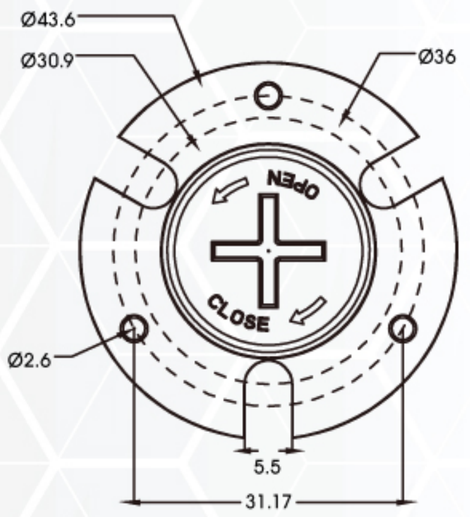



## DIMENSIONS




IP65

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## MUST BE CONTROLLED BY



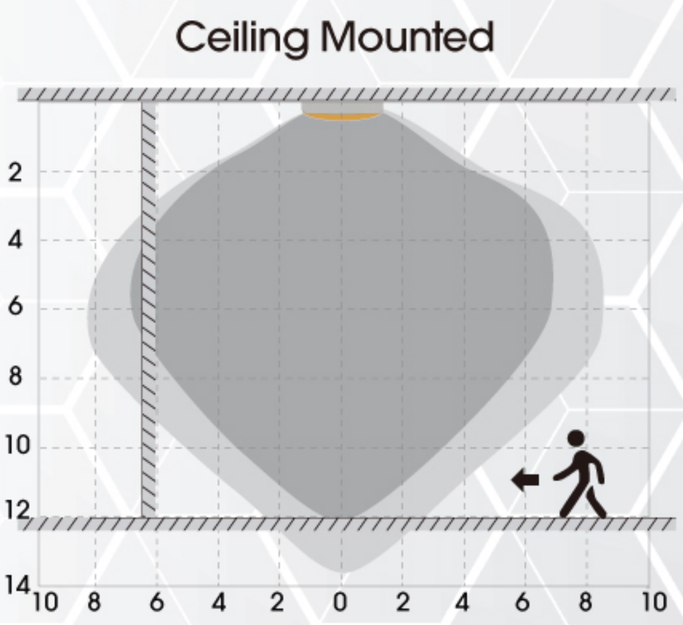
**PNP-REMOTE**

## DETECTION COVERAGE

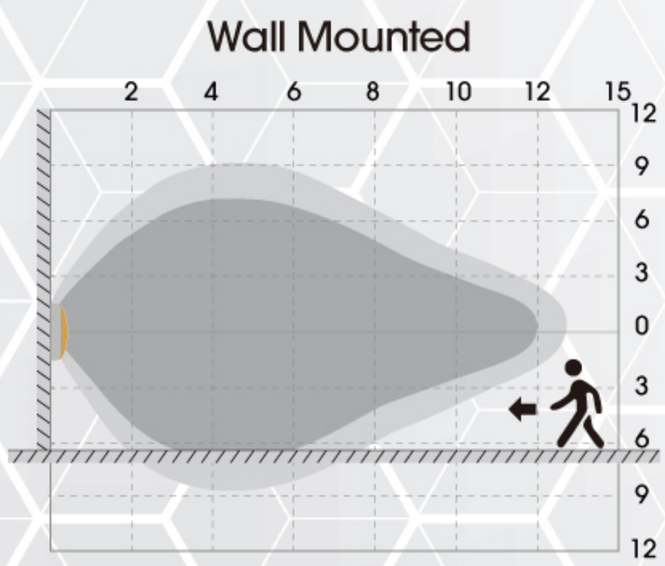


0.5-1.0M/S

Mounting Height




Mounting Height




This figure indicates the maximum distance at the highest mounting height with 100% sensitivity.

Well Detected Area  Possibly Detected Area


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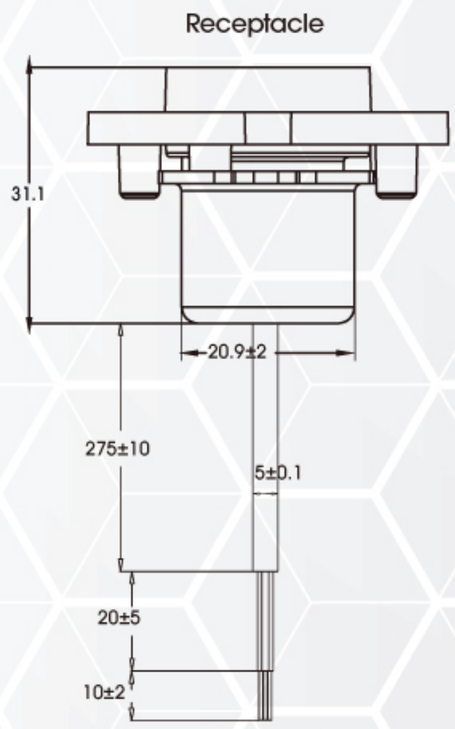
# MICROWAVE HIGHBAY SENSOR

## PNP-SENSOR

## SPECIFICATIONS

| Model | PNP-SENSOR |
|---|---|
| Frequency | 5.8GHz±75MHz |
| Microwave Power | <0.3mW |
| Installation Height | 12m/39ft Max. |
| Detection Distance | ≥3m/9ft |
| Warranty | 5 years |
| Detection Area | 25%/50%/75%/100% |
| Holdtime | 5s/30s/1min/3min/5min/10min/20min/30min |
| Daylight Threshold | Disable/ 2lux/ 10lux/ 30lux/ 50lux/ 80lux/ 120lux |
| Standby Dimming Level | 10%/20%/30%/50% |
| Standby Period | 0s/10s/30s/1min/5min/10min/30min/60min+∞ |
| Input Range | 12VDC |
| Voltage Range | 10-15VDC |
| Current | ≥30mA |
| Connection | 12VDC input |
| Operating Temperature | -20°C~+60°C |
| Case Quantities | 100 |

## DIAGRAM




## PRESET SETTINGS

**Detection Area: 100%**

**Holdtime: 5min**

**Daylight Threshold: Disable**

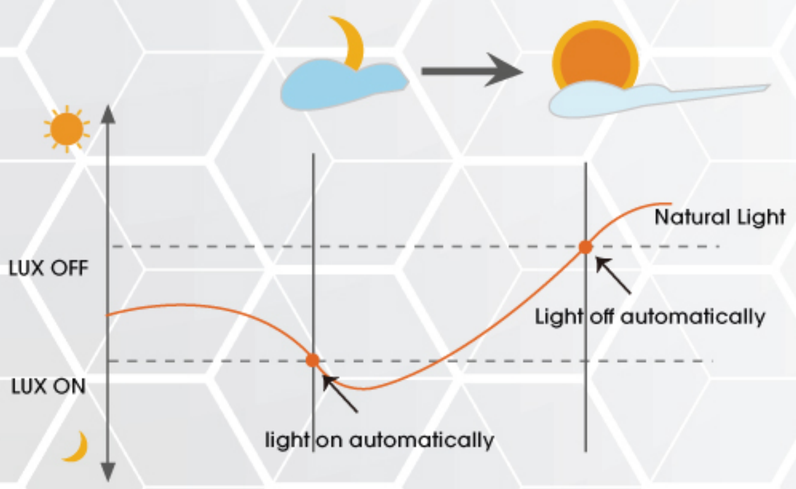
**Standby Dimming Level: 10%**

**Standby Period: 0s**

## PERFORMANCE

**Sensor Default Setting:**

- Standby period is +∞;
- Standby dimming level is on 10%,20% or 30%
- Daylight threshold is on 30lux/ 50lux/ 80lux/ 120lux




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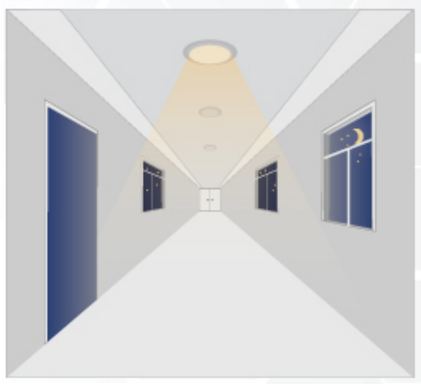
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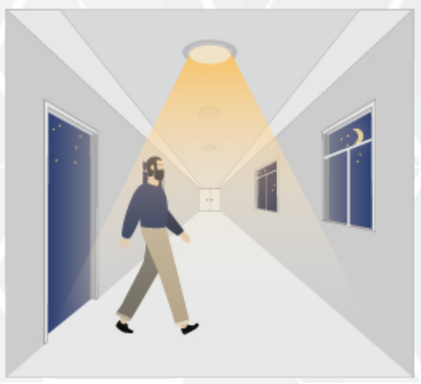
## PNP-SENSOR

## PERFORMANCE

### With Dusk/Dawn function



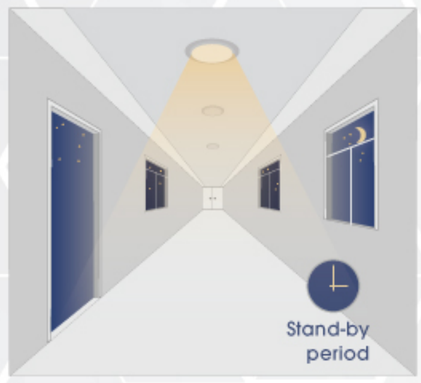
With insufficient ambient brightness, sensor turns on light and keeps it at standby dimming level even if there is no motion or persence.



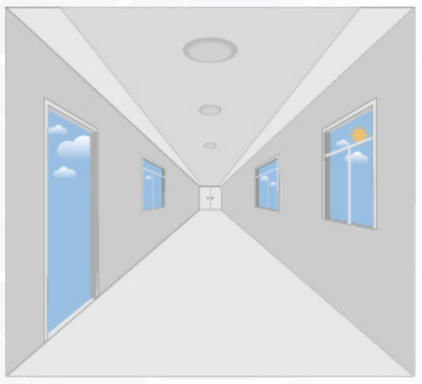
When sensor detects motion or presence it will bring the light level up to 100%.




After motion is no longer detected,fixture remains at 100% for hold time.

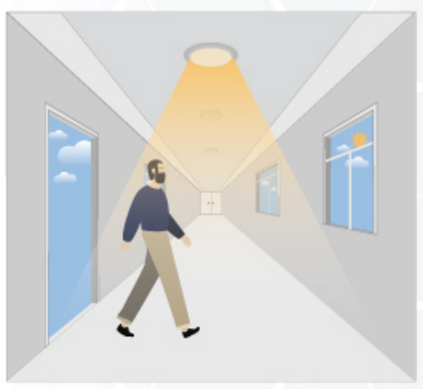



After pre-set hold time period it will dim light to standby dimming level again and always keep it.



With sufficient ambient brightness, sensor will turn OFF light automatically.

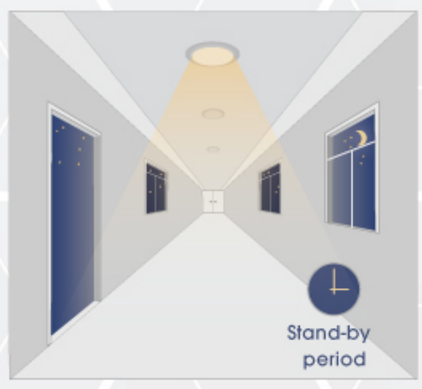
### With daylight disabled



Sensor turns ON light when motion is detected.




Sensor keeps for a hold time period after motion leaves.t

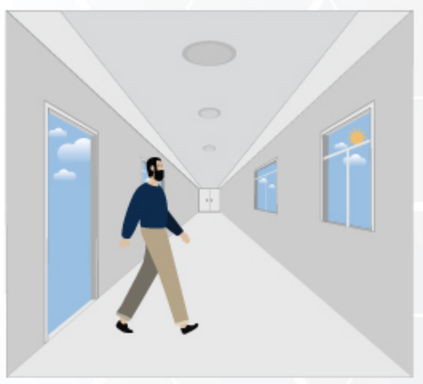



Sensor dims light to standby dimming level after hold time if there is still no motion.

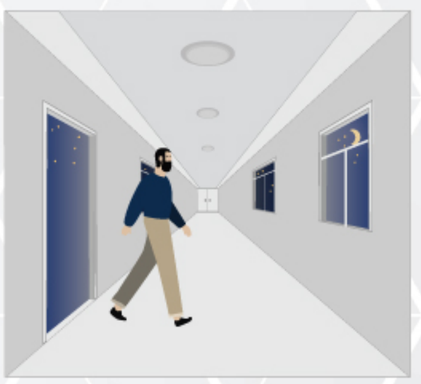


Sensor turns OFF light after standby period.

### With daylight threshold



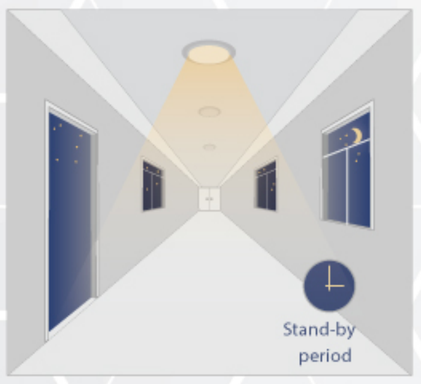
With sufficient daylight, the sensor keeps light OFF even motion gets detected.



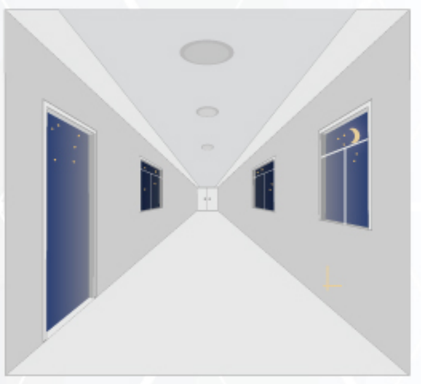
With insufficient daylight, the sensor turns light ON when motion gets detected.t




After there's no motion detected, the sensor keeps light ON 100% for holdtime.




After holdtime, sensor dims light to standby dimming level for standby period. if the standby period has been set as Os, sensor turns light OFF automatically after holdtime.



The sensor turns OFF light automatically after the standby period when there's no motion detected.

| Reference | QTY. | Remarks | Project: |
|---|---|---|---|
| | | | Location: |
| | | | Architect: |
| | | | Engineer: |
| | | | Contractor: |
| | | | Submitted by: |
| | | | Date: |

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