**Project Name:** _____

**Schedule / Date:** _____

**Notes:** _____

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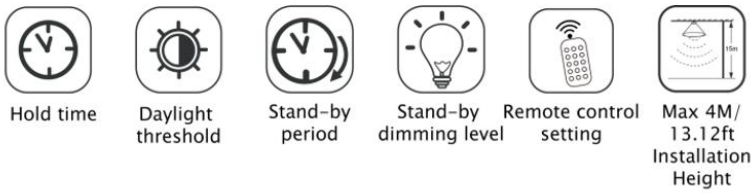
E529048




**Fetures:**

NLC/DLC Qualified

Tiny PIR Sensor

Remote control (purchased separately)

Audio-Jack Classic Connection, 0-10V Dimming, with Daylight Harvesting IP20 rated

Suitable for Back-lit Panel

Warranty: 5 Year

## ORDERING GUIDE

| SERIES | PIR |
|---|---|
| **HD08VR** | **P** \| PIR |
| EXAMPLE: **HD08VR-P** | |

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**Project Name:** _____

**Schedule / Date:** _____

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## SPECIFICATIONS

| | |
|---|---|
| SKU | 39-2010s |
| **MODEL NO.** | HD08VR-P |
| Brand | HAISEN |
| Technical | PIR |
| Input Voltage | 10-15Vdc |
| Input Current | <15mA |
| Signal | DIM 0-10V |
| Connection | TipDIM+, RingVCC, SleeveGND |
| Stand-by Power | <0.5W |
| Wireless Control Range | >20m/65ft |
| Installation Height | 4m/13.12ft Max |
| Detection Angle | Fresnel Lens ≤120°, Fresnel Lens 360° Ceiling Mounted |
| Detection Distance | ≥3m/9ft |
| Detection Area | 50% |
| Hold Time | 30min |
| Daylight Threshold | Disable |
| Stand-by Dimming Level | 30% |
| Standby Period | 30min |
| Dusk / Dawn Sensing / Photocell setting | Daylight threshold as 30lux/ 50lux/ 80lux/ 120lux<br>Stand-by period as +∞;<br>Stand-by dimming level as 10%/20%/30% |
| Remote Control | SKU#78-20178-A with digital display |
| Working Temperature | -25°C ~ +60°C / -13°F ~ +140°F |
| Storage Temperature | -40°C ~ +80°C / -40°F ~ +176°F |
| IP Rate | IP 20 |

## STARTUP BEHAVIOR

When fixture power is applied, the below startup sequence occurs

1. Light output 100%
2. After 45s,lights on
3. Sensor is now ready for normal operation

**Project Name:** _____

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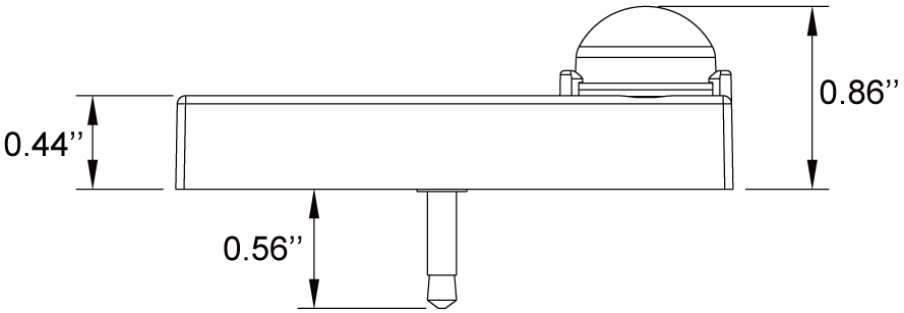
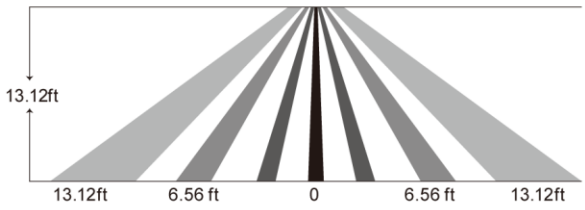
## DIMENSION

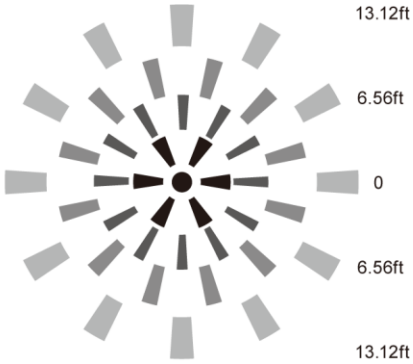



## DISTECTION COVERAGE

Mounting Height
<4m/13.12 Ceiling Mounted

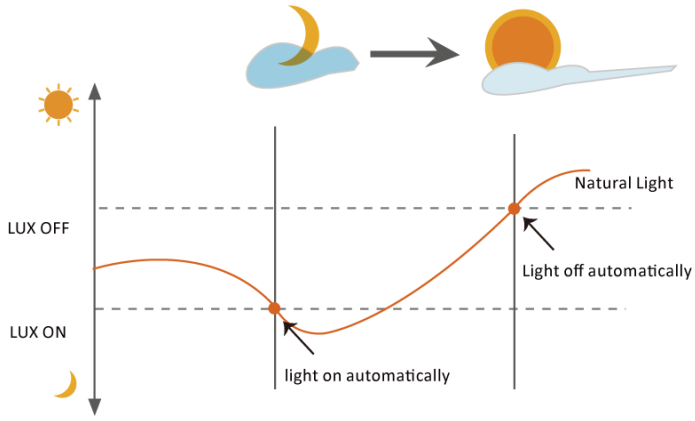
Detection Distance
Radius 2-4m/6.56-13.12ft




## Dusk/Dawn Function

This sensor is 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.




## Precondition of Dust/Dawn Function

1. Standby period is +∞;

2.Standby dimming level is on 10%,20% or 30%;

3. Daylight threshold is on 30lux/ 50lux/ 80lux/ 120lux

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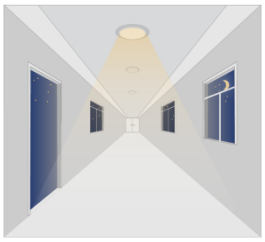
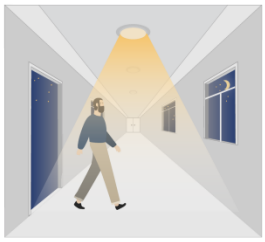
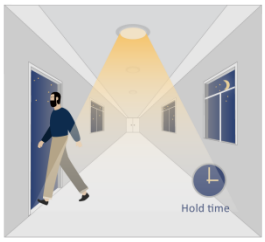
## 1. With Dusk/Dawn function



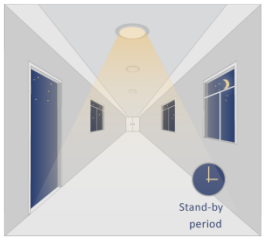
With insufficient ambient brightness, sensor turns on light and keeps it at standby dimming level even if there is no motion or persence.



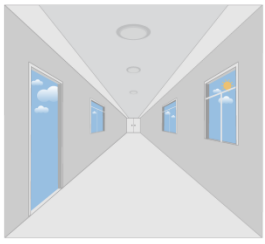
When sensor detects motion or presence it will bring the light level up to 100%.




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

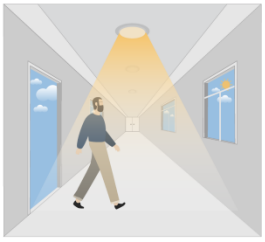



After pre-set hold time period it will dim light to standby dimming level again and always keep it.



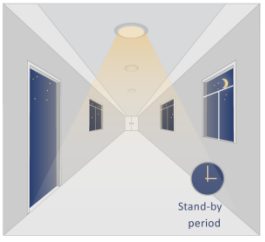
With sufficient ambient brightness, sensor will turn OFF light automatically.

## 2. Without daylight disabled



Sensor turns ON light when motion is detected.

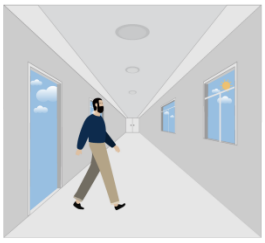

Sensor keeps for a hold time period after motion leaves



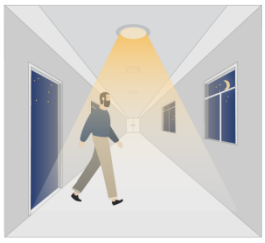

Sensor dims light to standby dimming level after hold time if there is still no motion

Sensor turns OFF light after standby period

## 3. With Daylight Threshold

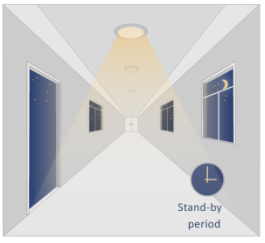


With sufficient daylight, the sensor keeps light OFF even motion gets detected



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


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.

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# APPLICATION NOTES

1. Suitable for indoor application.
2. PIR sensor can't be placed inside any material, fresnel lens must completely exposed in air.
3. Not suitable for environment if there's sudden changed temperature of airflow for PIR sensor.
4. Not suitable for environment if there's blocking between the sensor and presence area.
5. Detection area options may NOT working obviously because it works depends on fresnel lens, it's physically defined.
6. Daylight testing delivered in bright day without shadow or specially designed lampshade or lens.
7. Dimming performance differs when connected to different drivers; If the driver can't completely turn OFF, sensor can't
   either.

8. Input power voltage must be stable with float less than 10%.

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