

## PIR INFRARED HEIGHT ALTITUDE SENSOR

Model : HN057-7C



Features :

- 1、 10.5-15V DC
- 2、 Daylight Priority
- 3、 linear highbay - Suitable for UFO / Highbay
- 4、 12M mounting height
- 5、 Infrared pyroelectric detection, weak affection by surroundings.
- 6、 PLUG&PLAY structure, different function options available.



Detection Hold time  
area



Daylight  
threshold



Stand-by  
period



Stand-by  
dimming  
level



Remote  
Control



Max 12M/  
39.37ft  
Installation  
Height



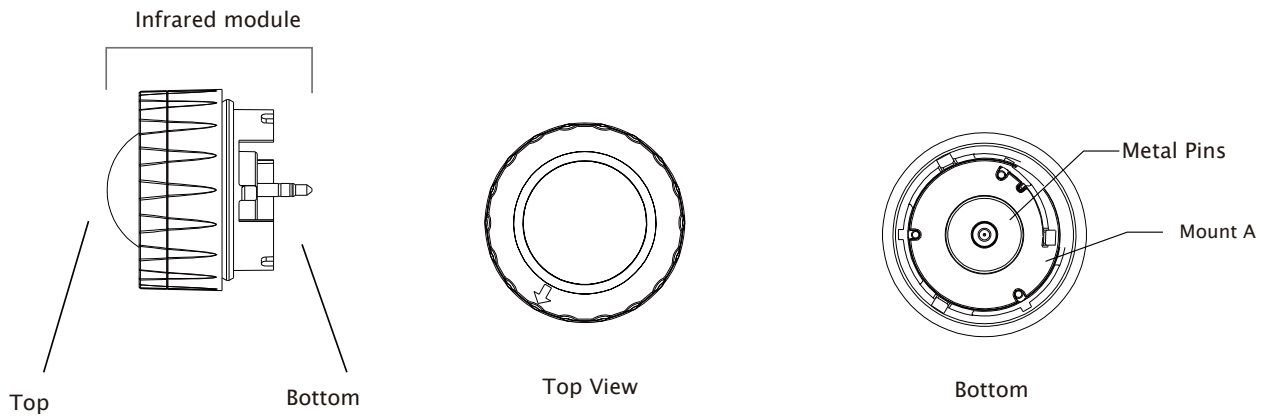
Warranty  
3  
years



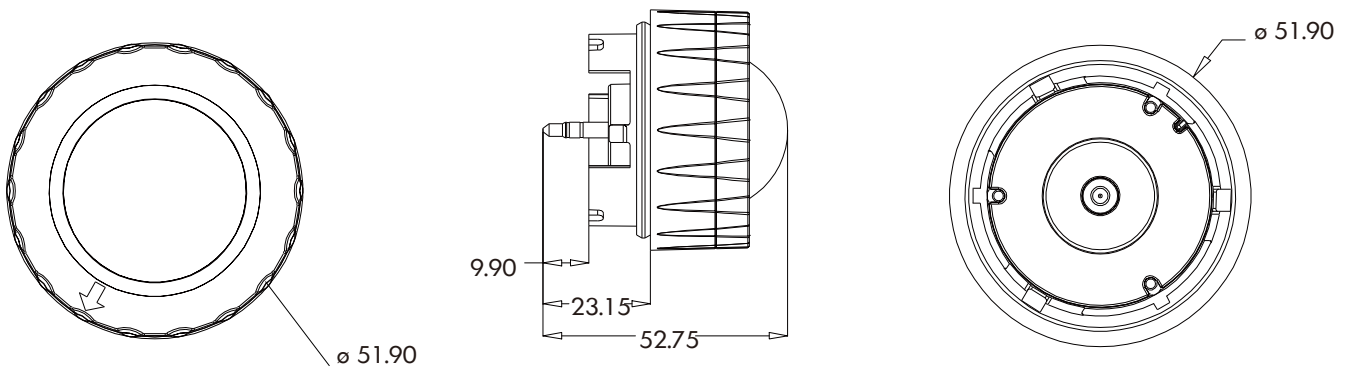
### Technical data

Operating voltage	10.5-15V DC
Interfaces	Customized connector
Stand-by power	<0.5w (<15mA)
Control method	0-10V Dimming,Remote Control
Sensitivity setting	25%/50%/75%/100%
Hold time	5s/30s/1min/3min/5min/10min/20min/30min
Daylight threshold	Disable/400Lux/350Lux/300Lux/250Lux/200Lux/120Lux/80Lux/50Lux/30Lux/10Lux/2Lux
Stand-by period	0s/10s/30s/1min/5min/10min/30min/60min/+∞
Stand-by dimming level	10% 20% 30% 50%
Detection Agle	<120°(Fresnel Lens), 360°(Ceiling mounted)
Detection range	Radius, 2-4m/6.58-13.12ft (ceiling mounted)
Mounting height	Max.ø12m/39.37ft(ceiling mounted)
Operating temperature	-20℃ ~ +60℃
IP rating	IP65
Daylight Priority	It works only when standby dimming level is preset as 10%/ 20%/ 30%, standby period as +∞, and daylight threshold as 400Lux/350Lux/300Lux/250Lux/200Lux/120Lux/80Lux/50Lux/30Lux.

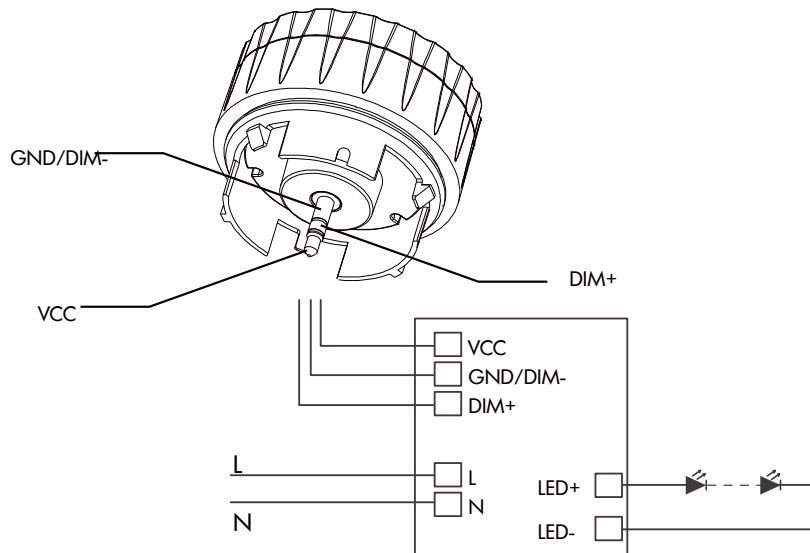
## Mechanical (Unit: mm)



## Size (Unit: mm)



## Wiring diagram



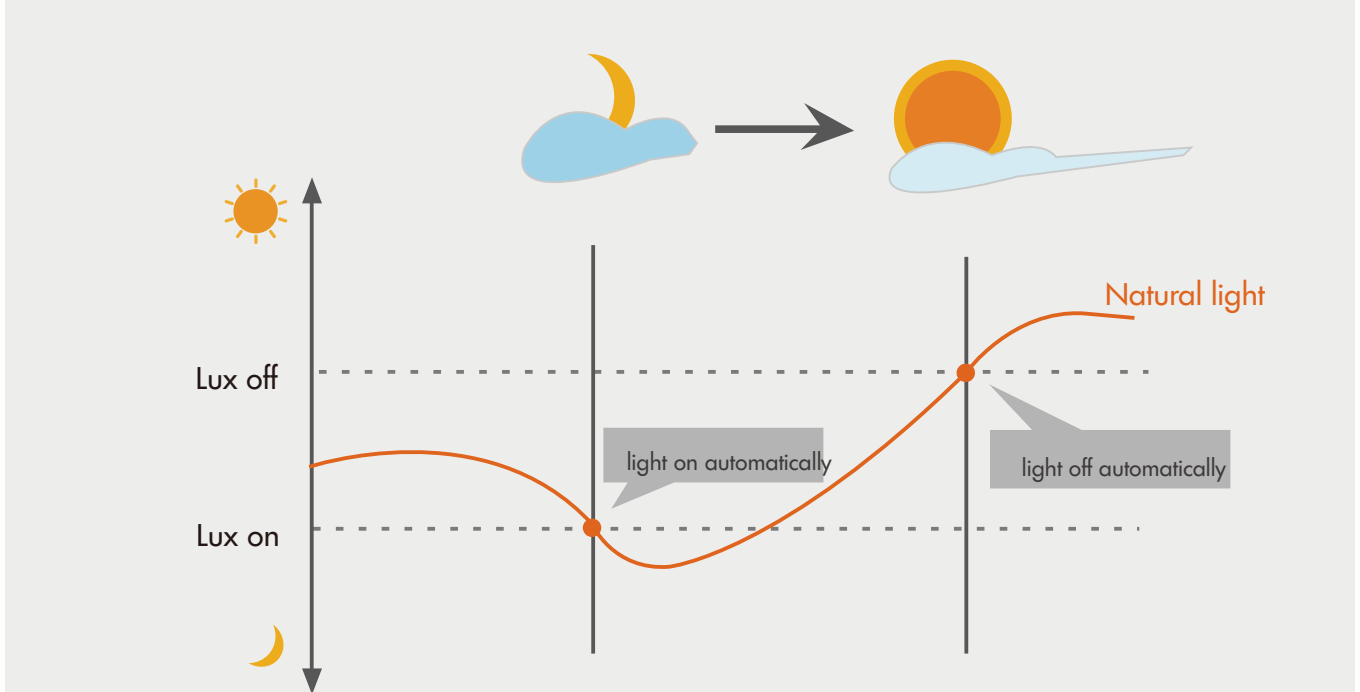
Dusk/Dawn sensor:

Dual-PD technology brings a fully automatic dusk/dawn sensor which can tell the difference between natural light and LED light, to ensure the light will be off when needed.

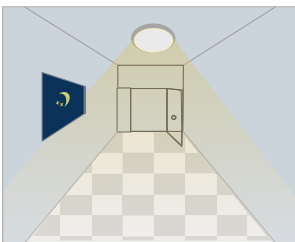
With Daylight priority function, HN057-7C is able to differentiate artificial light brightness from natural light after installed inside the fixture, and automatically turn off light when ambient brightness exceeds preset lux level.

### Precondition of Daylight priority:

1. Standby period is  $+\infty$ ;
2. Standby dimming level is on 10%, 20% ,30%;
3. Daylight threshold is on 400Lux/350Lux/300Lux/250Lux/200Lux/120Lux/80Lux/50Lux/30Lux



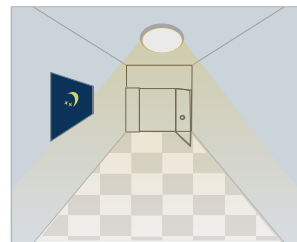
### Application\_\_\_\_\_Daylight priority



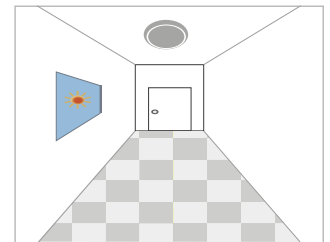
Light automatically on when ambient brightness is lower than preset lux level.



With insufficient ambient brightness, light dims to 100% when motion detected .



Light dims to standby level if no motion detected after holdtime.

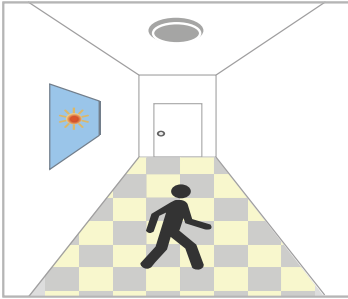


Light off when ambient lux level is higher than preset lux amount.

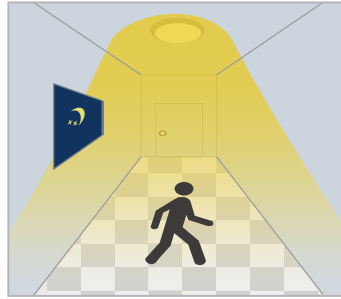
## Application

### 1.ON/OFF Function

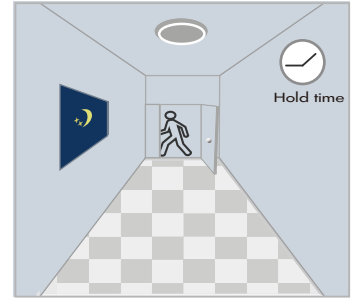
If the standby period is preset as 0S, the sensor will turn OFF the light automatically after holdtime.



With enough ambient brightness, sensor will keep the light OFF even though it detects heat.



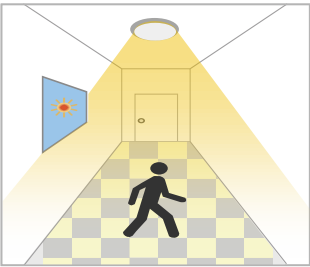
When ambient brightness gets lower than the preset daylight lux level, the sensor will turn ON light once it detects heat in the area.



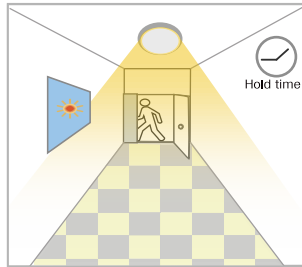
After heat leaves the area, After the waiting time, the sensor will keep light 100% ON for a holdtime period, then turn OFF light automatically.

### 2.Daylight Disable

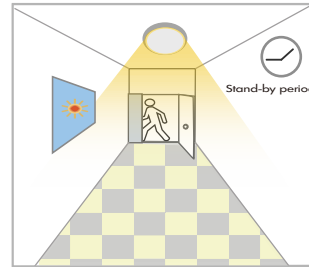
If daylight threshold is preset as disable, the sensor will turn ON light once it detects heat regardless of ambient brightness.



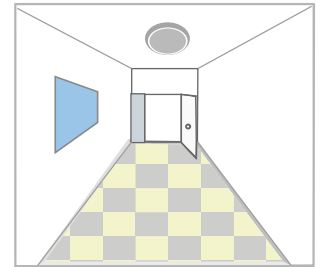
The sensor will turn ON light once it detects heat.



The sensor will keep light 100% ON for a holdtime period after heat leaves the area.

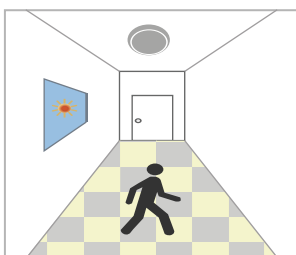


The sensor will dim light to standby dimming level and keep for a standby period after holdtime.



The sensor will turn OFF light if no heat, After the waiting time detected during the standby period; With heat presence, it will turn ON light immediately.

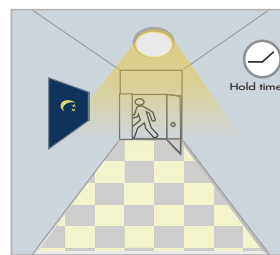
### 3.Dimmable Function



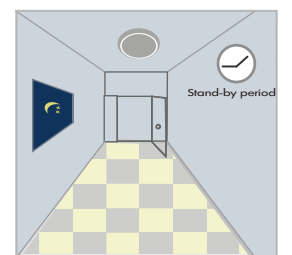
With enough ambient brightness, sensor will keep the light OFF even though it detects heat.



When ambient brightness gets lower than the preset daylight lux level, the sensor will turn ON light once it detects heat in the area.

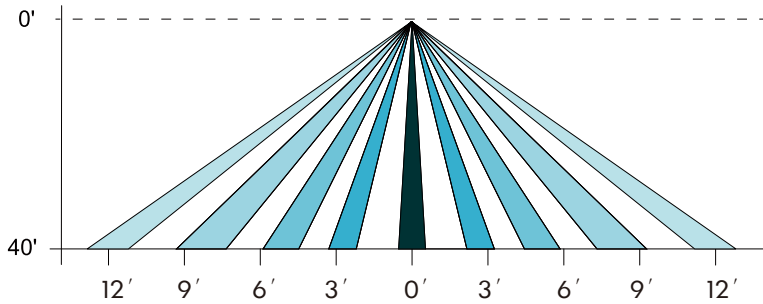


The sensor will dim light to standby dimming level and keep for a standby period after holdtime.

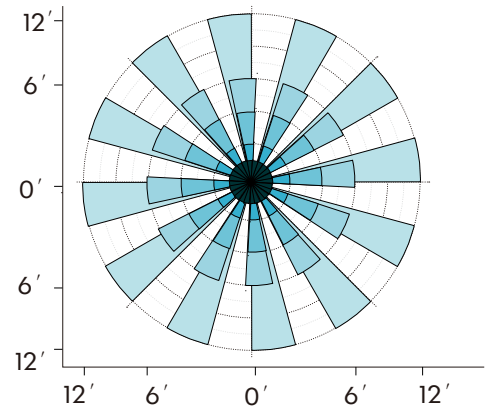


The sensor will turn OFF light if no heat detected during the standby period; With heat presence, it will turn ON light immediately.

### Wall Mounted



### ceiling mounted



## Attention



### IMPORTANT START-UP INFORMATION:

1. We reserve the right to necessarily modify any incorrect words or pictures or technical parameters.
2. Do NOT rework the sensor without permission or authorization, otherwise the contract clauses guaranteed will be invalid immediately.

### INSTALLATION OVERVIEW:

1. TURN THE POWER OFF AT THE CIRCUIT BREAKER BEFORE INSTALLING THE SENSOR.
2. Do NOT allow bare wires to show; Make sure all connections are secure; Check all the gaskets for watertight fit.
3. Assemble any necessary mounting accessories.
4. Have the sensor's lens lower than edge of the fixture and keep the sensor away from heating part.

### APPLICATIONS:

1. Do NOT mount it outdoor, in case the outdoor temperature disturbs it.
2. Do NOT have it at places with suddenly changed temperature or airflow.
3. Do NOT have shelves between sensor to the presence area.

## SCREEN DISPLAY, MEMORY & APPLY FUNCTION, OPTIONAL SCENES

### Briefing of Button Functions

Model: HD05R



Buttons	Function	Performance
	ON/OFF	Turn ON or OFF the sensor.
	MW/PIR	Daylight learning button, press it and light flickers 3 times and light on, it means ambient brightness learnt.
	Reset	Press it to start detection programming; before pressing any other buttons, the screen shows default programming (Detection Area 100%, Holdtime 5S, Daylight Disable, Standby Dimming 10%, Standby Period 0S)
	Start	Press it before you try to memorize program into the remote; After pressing it, S on the screen will blink and keeping blinking while making the program.
	Memory	Press it after programming, the blinking S will become a solid M, that means the program has been well memorized.
	Apply	Press it to deliver the preset program to the specific sensors; every press will make the whole screen blink gently.
	Detection area	Also known as "sensitivity", 100% means the highest sensitivity and longest distance. Press it, specific icon on the screen will blink and press the + - buttons to adjust.
	Hold time	The period that light will stay illuminated 100% after no motion's detected; Press it, specific icon on the screen will blink and press the +- buttons to adjust.
	Daylight Threshold	The preset lux level to compare with ambient brightness when motion gets detected; Press it, specific icon on the screen will blink and press the + - buttons to adjust.
	Stand-by period	The period after holdtime, during which the light keeps standby dimming level; Press it, specific icon on the screen will blink and press the + - buttons to adjust.
	Stand-by dimming level	After holdtime, the light will dim from 100% to optional standby dimming levels; Press it, specific icon on the screen will blink and press the +- buttons to adjust.
	UP	The main functional buttons to adjust the factors to wanted level.
	DOWN	
	POWER	Supports to manually change dimming output in detection mode; Press it, specific icon on the screen will blink and press the + - buttons to adjust.
	Test mode	Supports to check if the sensor works correctly with a short 2S holdtime; Press it and the holdtime will change to 2S, and it can't be memorized.

## How to Use HD05R

### 1. SENSOR PROGRAMMING

1. ON/OFF button to turn on the light
2. SCENE button to start programming
3. Choose functional button of detection area, see icon blinking on the LCD screen display then use + - buttons to change
4. Same programming with all the other functional buttons of holdtime ,standby dimming level, standby period and daylight threshold
5. Done and leave the remote.

\*Icon keeps blinking on the screen for 5S that means the program will then be kept after 5S.

\*Each press will make sensor dim down light then back to 100%, it means remote signal has been well received.

### 2. MEMORY AND APPLY

#### @the 1st sensor

1. ON/OFF button to turn on the light
2. SCENE button to start programming
3. START button
4. Choose functional button of detection area, see icon blinking on the LCD screen display then use + - buttons to change
5. Same programming with all the other functional buttons of holdtime ,standby dimming level, standby period and daylight threshold
6. MEMORY button
7. APPLY button

#### @the other sensors

1. ON/OFF button to turn on the light
2. SCENE button to start programming
3. APPLY button

### 3. MANULLY DIMMING

#### ON/OFF mode

1. ON/OFF button to turn on the light
2. Press +- button to dim light directly, it dims from 10% to 100%

#### DIMMING mode

1. ON/OFF button to turn on the light
2. SCENE button to start programming
3. POWER button
4. +- buttons to dim light, but it only dims from 60% to 100%; 50% is one of the standby dimming level options

\* Number on LCD screen display may keep changing 10%-100%.