

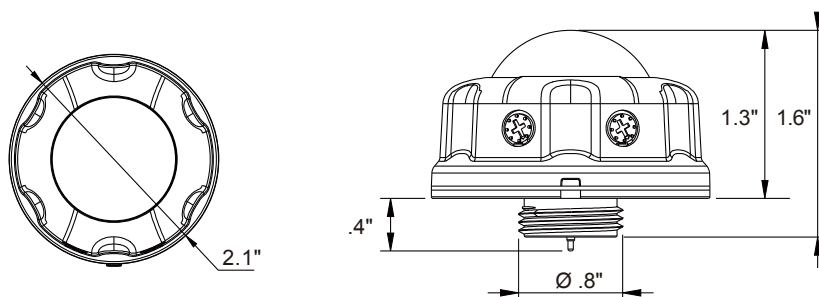
Highbay Sensor

- Rotator & remote control
- 12VDC Input, 0-10V Dimming, with Daylight Harvesting and Photocell function
- Flexible installations, compatible with different receptacles & brackets
- Remote control for setting adjustments (RCH06R)

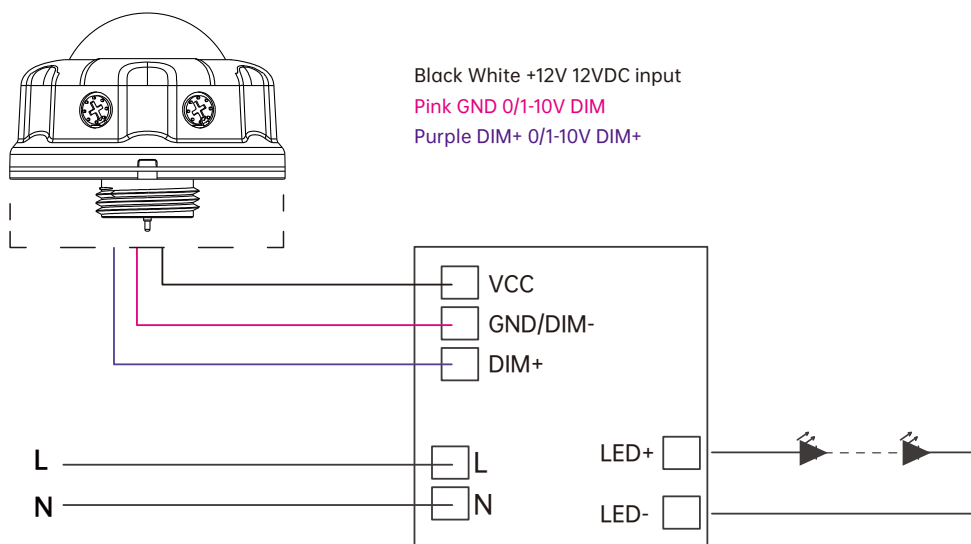


HAISEN Model: XMSPH-H09

Dimensions



Wiring Diagram



Technical Data

PIR INFORMATION	Infrared Wavelength	5-14um
	Output Signal Peak	≥3500mV
	PIR Sensitivity	3200V/W
	Installation Height	12m/39ft Max.
	Detection Distance	≥3m/9ft
	Detection Angle	Fresnel Lens ≤120° Fresnel Lens
	Warranty	3 Years
SENSOR PARAMETER	Detection Area	Remote Control: 25%/50%/75%/100% Rotating switch: Default Setting 100% APP Control Options: 25%/50%/75%/100%
	Holdtime	Remote Control: 5s/30s/1min/3min/5min/10min/20min/30min Rotating switch: 5s/1min/5min/10min APP Control Options: 5s/ 30s/ 1min/ 2min/ 3min/ 5min/ 10min/ 15min/ 20min/ 25min/30min/ 45min/ 60min/ 90min/ 120min
	Daylight Threshold	Remote Control: 2Lux/10Lux/30Lux/50Lux/80Lux/120Lux/200Lux/250Lux/300Lux/350Lux/400Lux/Disable Rotating switch: Default Setting Disable APP Control Options: 2Lux/10Lux/30Lux/50Lux/80Lux/120Lux/200Lux/250Lux/300Lux/350Lux/400Lux/Disable
	Standby Dimming Level	Remote Control: 10%/20%/30%/50% Rotating switch: 0%/10%/30%/50% APP Control Options: 10%/20%/30%/50%
	Standby Period	Remote Control: 0s/10s/30s/1min/5min/10min/30min/60min/+∞ Rotating switch: Default Setting +∞ APP Control Options: 0s/5s/30s/1min/2min/3min/5min/10min/15min/20min/25min/30min/45min/60min/+∞
	Dusk/Dawn Sensing/ Photocell	Daylight threshold as 30lux/50lux/80lux/120lux/200Lux/ 250Lux/300Lux/350Lux/400Lux Standby period as +∞ ; Standby dimming level as 10%/20%/30%
	Daylight Harvesting	1. Adjust "daylight" value higher than 50lux 2. Preset "standby period" 0S 3. press MW/PIR button 3 times till MW/PIR icons both blinking on LCD screen, daylight harvesting function enabled. (With BLE version, press DH button, daylight harvesting function enabled.)
	Output	ON/OFF,0-10V Dimming
	Warm-up Period	45s
INPUT	Input Range	12VDC
	Voltage Range	10-15VDC
	Current	<30mA
OUTPUT	Signal	DIM 0-10V
ENVIRONMENT	Working Temp	-20°C~+60°C
	Storage Temp	-40°C~+80°C Humidity: 85% (non-condensation)
CERTIFICATE & STANDARDS	Environmental Requirements	In accordance with CE ROHS
	IP Rating	IP65

Dial Rotator Function

Regular Version

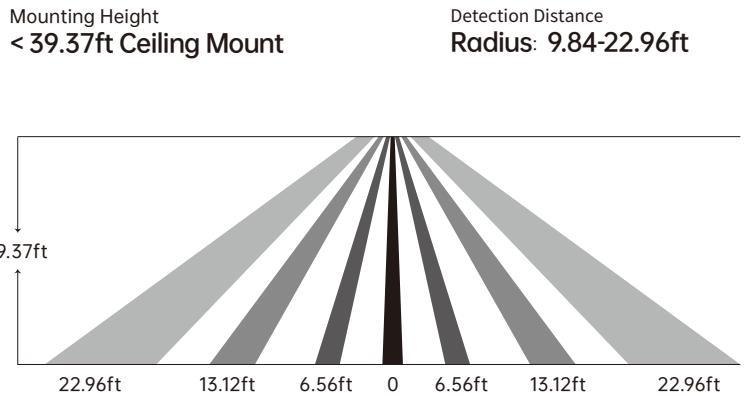
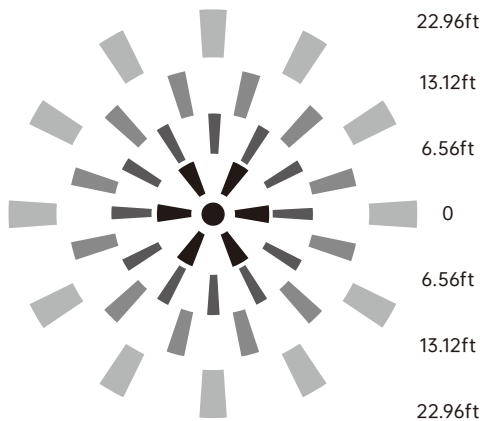
- ① Holdtime
5s/1min/5min/10min
- ② Standby Dimming Level
0%/10%/30%/50%

Detection Area Default 100%	Daylight Threshold Default Disable	Standby Period Default as +∞ infinite with specific standby dim level
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*Please note the regular version is remote control supported; the sensor memorizes the last-time setting.

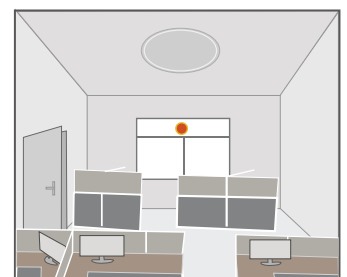
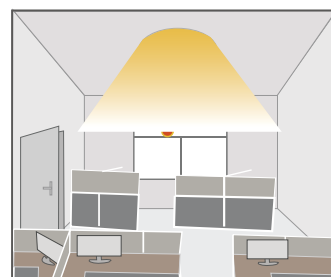
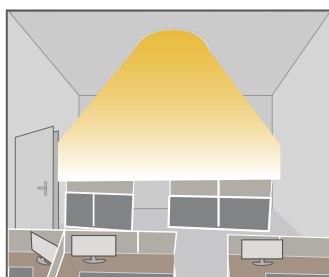
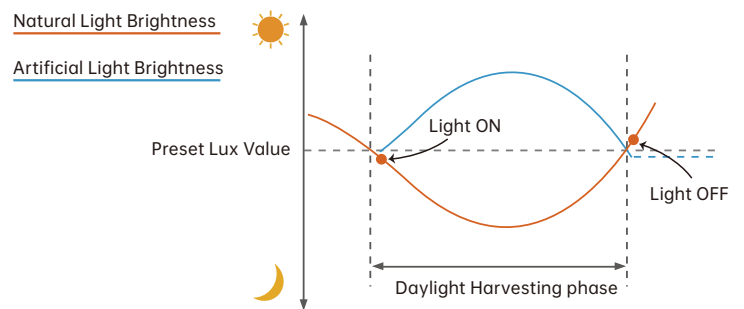
Detection Coverage



Performance

1. Daylight Harvesting

- Adjust "daylight" value higher than 50lux
- Preset "standby period" 0S
- Press MW/PIR button 3 times until MW/PIR icons are both blinking on LCD screen, daylight harvesting function enabled



When ambient brightness is lower than pre-set lux level, sensor will turn on light automatically and keep dimming according to the change of the ambient brightness; when outside is getting darker, the inside will be brighter

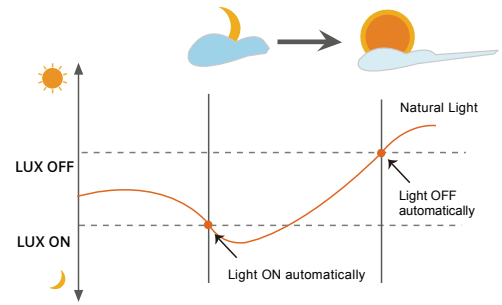
Light is OFF when ambient brightness becomes higher than the pre-set lux level

2. Dusk/Dawn Function

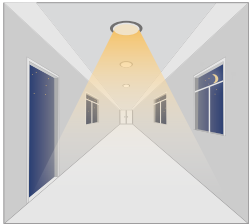
The sensor is able to differentiate artificial light brightness from natural light after installation and will automatically turn off light when ambient brightness exceeds pre-set lux level.

Pre-condition of Dusk/Dawn Function:

- Standby period is $+\infty$;
- Standby dimming level is set to 10%, 20% or 30%;
- Daylight threshold is set to: 30lux/ 50lux/ 80lux/120lux/ 200Lux/ 250Lux/ 300Lux/ 350Lux/ or 400Lux



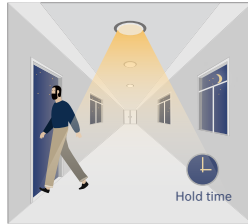
3. With Dusk/Dawn function



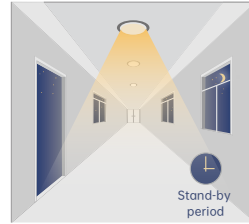
With insufficient ambient brightness, sensor turns on light and keeps it at standby dimming level even if there is no motion or presence.



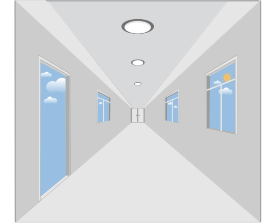
When sensor detects motion or presence it will bring the light level up to 100%.



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

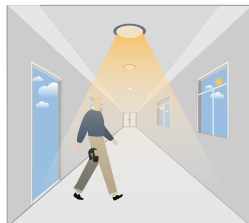


After pre-set hold time period it will dim light to standby dimming level again and always keep it.

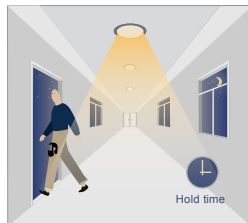


With sufficient ambient brightness, sensor will turn OFF light automatically.

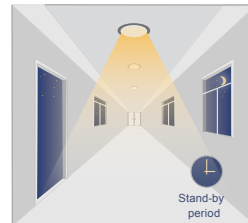
4. Without Daylight Disabled



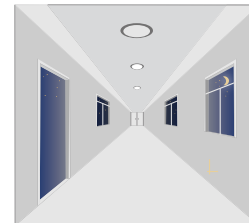
Sensor turns ON light when motion is detected.



Sensor keeps light ON for a hold time period after motion leaves area

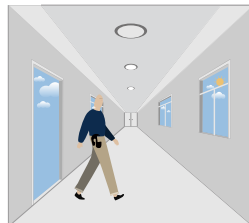


Sensor dims light to standby dimming level after hold time if there is still no motion

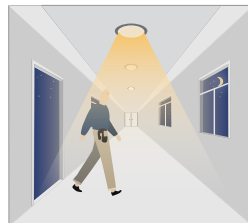


Sensor turns OFF light after standby period

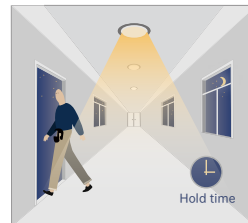
5. With Daylight Threshold



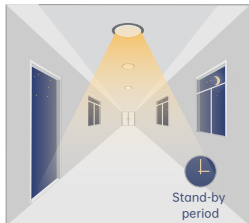
With sufficient daylight, the sensor keeps light OFF even when motion is detected



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



After no motion is detected, the sensor keeps light ON 100% for hold time



After hold time, sensor dims light to standby dimming level for standby period. if the standby period has been set as 0s, sensor turns light OFF automatically after hold time.



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



1. The sensor should be installed by qualified electrician and ensure power is OFF before installation
2. Please read these instruction carefully before using the product and safeguard for future reference
3. We reserve the right to modify any incorrect text, image and technical parameters
4. Any unauthorized modification is forbidden and will void warranty
5. Product may be improved without prior notice

* When ambient temperature approaches the human body temperature range 96.8~98.6°F (36°C~37°C), PIR sensor's detecting performance will significantly weaken or become non-responsive

* When ambient temperature stays higher than 40°C/104°F, PIR sensor's detecting performance will significantly weaken

Attention

APPLICATION NOTES

1. Suitable for indoor application, partly or completely outdoor environment conditions might trigger the sensor
2. Suitable for ceiling mount installation, adjust sensitivity properly if it's installed on a side wall because sensitivity is increased
3. PIR sensor can't be placed inside any material, fresnel lens must be completely exposed in air
4. Fresnel lens of the PIR sensor must be lower than light fixture
5. Not suitable in an environment with sudden changes in temperature of airflow around PIR sensor
6. Not a suitable environment if there's shelves or obstructions blocking between the sensor and detection area
7. Detection area is dependent upon clear exposure of fresnel lens
8. Detection distance performance works better with approach from the side rather than moving forward towards the sensor
9. Perform testing in bright daylight without shadows or lens obstructions
10. Dimming performance differs when connected to different drivers; If the driver can't completely turn OFF, sensor can't either
11. Input power voltage must be stable with float less than 10%
12. The first time sensor is powered ON, light will be ON 100% for about 45S, then dims to standby level or OFF
13. Distance detection is delivered by testing a person about 5'5" tall in open area as reference (note: the result differs by size and speed of moving objects, mounting height and real-life situation)