

FEATURES

- Specially designed tiny microwave.
- Easy remote control.
- 12VDC input, Bi-level dimmable.
- Suitable for Dim-to-Off applications
- With Daylight Harvesting and Photocell Function.



On/Off
Control



Detection
Area



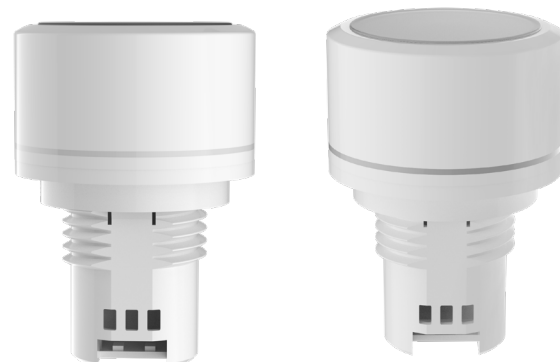
Stand-by
dimming level



Hold Time



IP Rating



TECHNICAL DATA

Microwave Information

Frequency	5.8GHz±75MHz
Microwave Power	0.3mW
Installation Height	8M/26ft
Detection Distance	3-8M/9.84-26.24ft Radius.
Detection Angle	30-150°

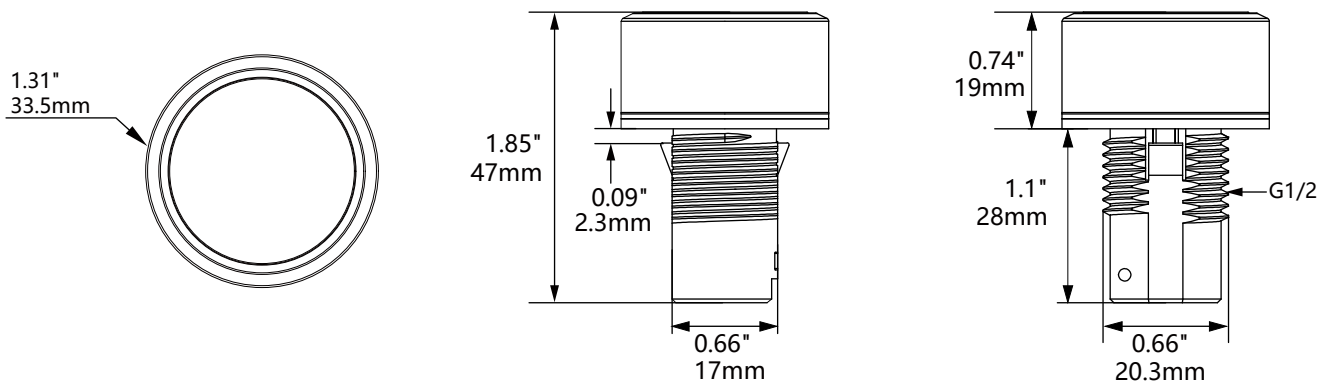
Electrical Specifications

Input Range	10.5-15VDC (Supply Current>50mA)
Operating Current	<30mA
Function Performance	DIM 0-10V
Working Temp	-30°C~+60°C
Connection	VCC, GND, DIM+ (22AWG/24AWG)

Sensor Parameter

Warming-up Period	About 10S
Control Device	Remote control HD06R (Separately)
Detection Area	25%/50%/75%/100%
Hold Time	5s/30s/1min/3min/5min/10min/20min/30min
Daylight Threshold	2Lux/10Lux/30Lux/50Lux/80Lux/120Lux/ 200Lux/250Lux/300Lux/350Lux/400Lux/Disable
Standby Dim Level	10%/20%/30%/50%
Standby Period	0s/10s/30s/1min/5min/10min/30min/60min/+∞
Manually Dimming Play	Function supported, 10-100% in manual mode, 60%-100% in sensor mode.
Automatically Dimming (Daylight Harvesting)	1. Stay in SENSOR MODE 2. STANDBY PERIOD as 0S 3. DAYLIGHT as any of 50LUX, 80LUX, 120LUX, 200LUX, 250LUX, 300LUX, 350LUX, 400LUX. 4. Press DAYLIGHT HARVESTING button to ON
Automatically ON/OFF (Photocell)	1. STANDBY DIM LEVEL as any of 10% 20% 30% 2. STANDBY PERIOD as infinite 3. DAYLIGHT as any of 30LUX, 50LUX, 80LUX, 120LUX, 200LUX, 250LUX, 300LUX, 350LUX, 400LUX.

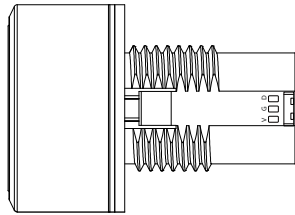
DIMENSIONS



CONNECTION

Quick Connector

V : VCC 12V
G: GND
D: DIM+/0-10V

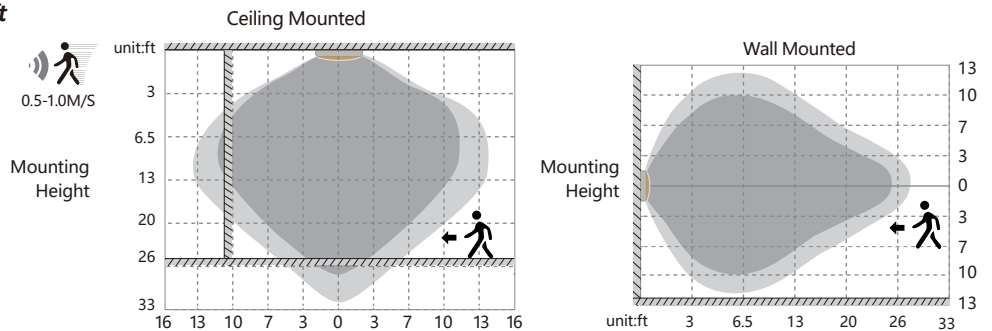


DETECTION COVERAGE

Highest mounting height is 8m/26ft

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

- Well Detected Area
- Possibly Detected Area

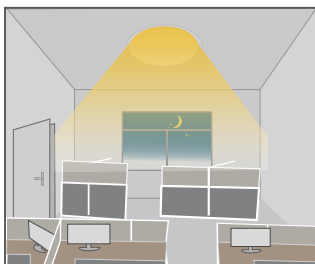
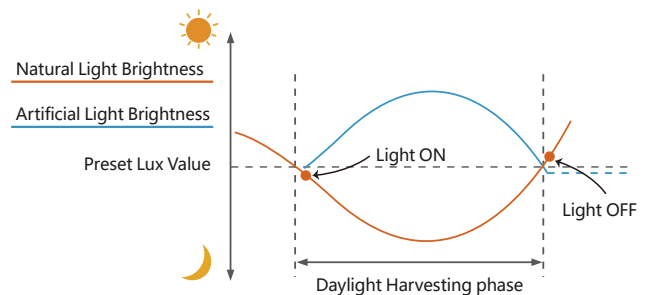


PERFORMANCE

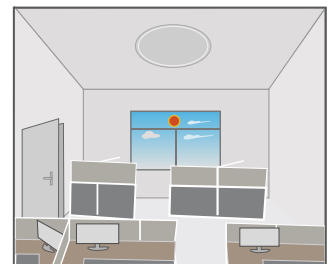
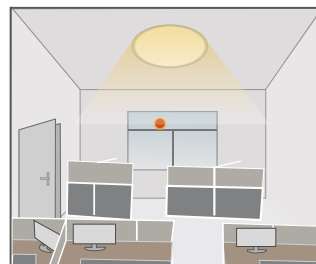
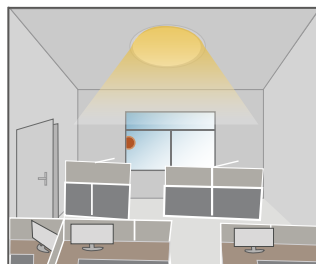
1. Daylight Harvesting

Please follow below setting steps to perform this function:

1. Stay in SENSOR MODE
2. STANDBY PERIOD as 0S
3. DAYLIGHT as any of 50LUX, 80LUX, 120LUX, 200LUX, 250LUX, 300LUX, 350LUX, 400LUX.
4. Press DAYLIGHT HARVESTING button to ON



When ambient brightness is lower than preset 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, and brighter darker.



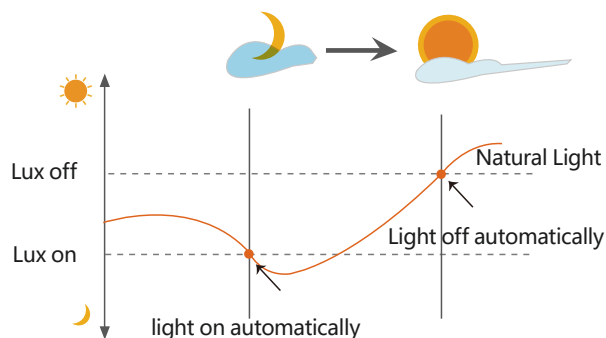
Light OFF when ambient brightness becomes higher than the preset lux level.

2. Dusk/Dawn function

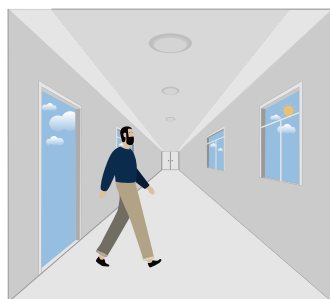
This product is able to differentiate artificial light brightness from natural light after installed inside the fixture, and automatically turn off light when ambient brightness exceeds preset lux level.

Please follow below setting steps to perform this function:

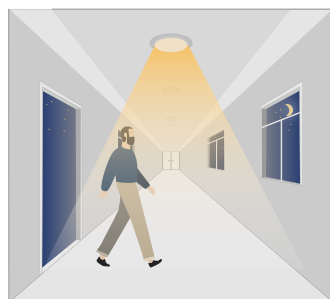
1. STANDBY DIM LEVEL as any of 10% 20% 30%
2. STANDBY PERIOD as infinite
3. DAYLIGHT as any of 30LUX, 50LUX, 80LUX, 120LUX, 200LUX, 250LUX, 300LUX, 350LUX, 400LUX.



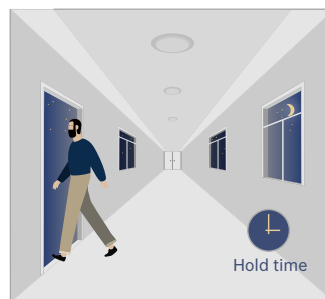
3. Automatically ON/OFF function



With sufficient daylight, even when motion detected, light remains OFF.

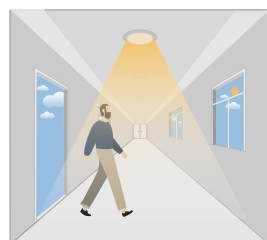


With insufficient daylight, the sensor turns light ON when motion gets detected.

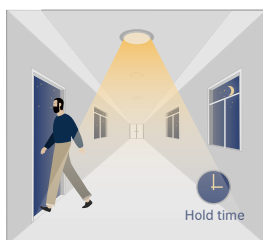


The sensor turns OFF light automatically after the holdtime when there's no motion detected.

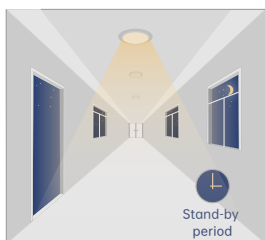
4. Without daylight disabled



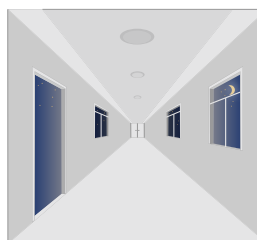
Sensor turns ON light when motion is detected.



Sensor keeps for a hold time period after motion leaves

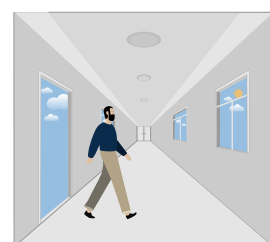


Sensor dims light to standby dimming level after hold time if there is still no motion

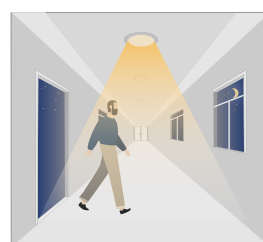


Sensor turns OFF light after standby period

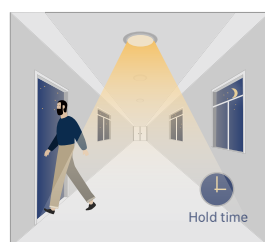
5. With Daylight Threshold



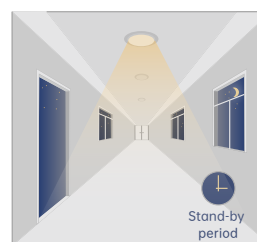
With sufficient daylight, the sensor keeps light OFF even motion gets detected



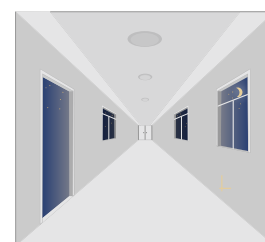
With insufficient daylight, the sensor turns light ON when motion gets detected



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 0s, sensor turns light OFF automatically after holdtime.



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



FACTORY SETTING

1. Detection Area - 100%
 2. Hold Time - 20min
 3. Daylight Threshold - disable
 4. Standby Period - 60S
 5. Standby Dimming Level - 20%
 6. Max Dim Level: 80%
-



Attention

1. The sensor should be installed by a qualified electrician, Make sure the power is OFF before installation.
2. Please read the instruction carefully before using the product and save it for future reference.
3. We reserve the right to modify any incorrect text, image and technical parameters.
4. Any unauthorized modification is forbidden. Otherwise all guarantees will be immediately invalid.
5. Product could be optimized without prior notice.

APPLICATION NOTES

1. Suitable for indoor application, half/completely outdoor environment conditions might be captured as moving signals to trigger the sensor.
2. Suitable for installations where the sensor is facing to the ground. There will be increased sensitivity if installed in a side wall or perpendicular to the ground. Adjust the sensitivity accordingly.
3. Adjust sensitivity properly when the sensor is applied in small/narrow/metal-built/with metal spaces.
4. Microwave sensor cannot be placed under/inside metal shell; Microwave module must directly face the detection area with edge lower than light fixture.
5. Keep the sensor away from vibration equipments, air-conditioning outlets, smoke extractors alike conditions to avoid unwanted trigger.
6. Keep the sensor module away from AC input and DC output to avoid high/low frequency signal interference.
7. At least 2m/6.5ft distance between microwave sensors; 1.5m/4.9ft between the sensor and other wireless devices such as routers to avoid possible radio interference.
8. Daylight testing delivered in bright day without shadow or specially designed lampshade or lens.
9. Dimming performance differs when connected to different drivers; If the driver cannot completely turn OFF, sensor cannot either.
10. Input power voltage must be stable within a 10% tolerance.
11. When powering ON the sensor for the first time, light will be ON 100% for about 10S then dims to standby level or OFF.
12. Detection distance is determined with a 5.5ft test subject in open area as reference. Results may differ based on size and speed of moving objects, mounting height, and environmental conditions.

FCC statement

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- 1) This device may not cause interference.
- 2) This device must accept any interference, including interference that may cause undesired operation of the device.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Radiation Exposure Statement

This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device must operate with a minimum distance of 20 cm between the radiator and user body.