

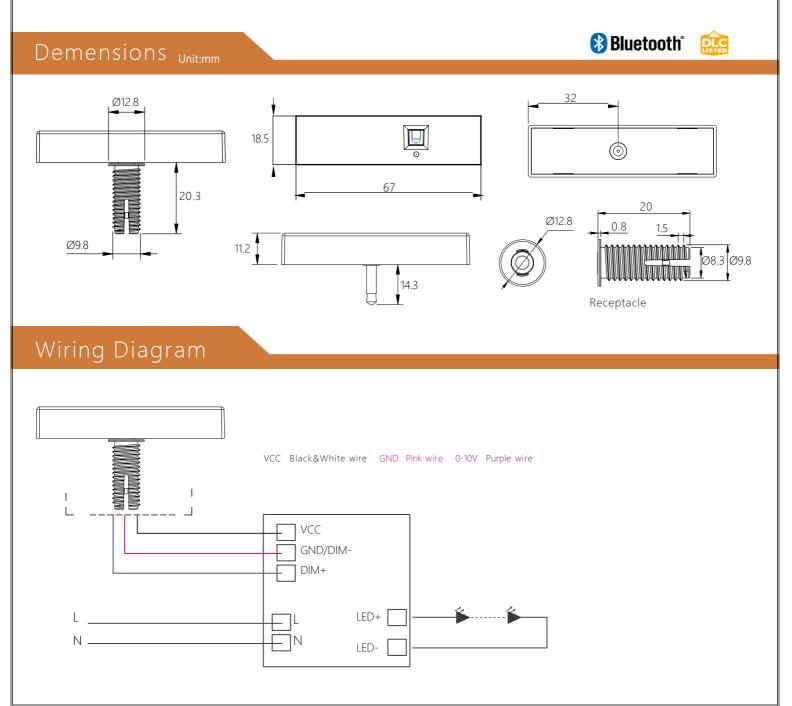
ITEM TYPE:	MICROWAVE SENSOR (BLUETOOTH & REGULAR)
NOTES:	
UPDATED DATE:	Sep, 2023





HD08VR MICROWAVE SENSOR

- NLC/DLC QualiÞed Product
- Tiny Microwave Sensor with/out Bluetooth-Mesh, PIR Version Interchangeable.
- Audio-Jack Classic Connection, 0-10V Dimming, with Daylight Harvesting
- Suitable for Indoor Lighting, Panel, Troffer etc.



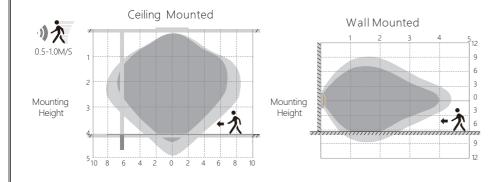
Parameters

Model NO.		HD08VR	
	Frequency	5.8GHz±75MHz	
MICROWAVE INFORMATION	Microwave Power	<0.3mW	
	Installation Height	4m/13.12 Max.	
	Detection Distance	≥3m/9ft	
	Detection Angle	30-150° (Without Glass Cover)	
	Detection Area	25%/50%/75%/100%	
sensor parameter	Holdtime	Remote control Options: 5s/ 30s/ 1min/ 3min/ 5min/ 10min/ 20min/ 30min APP Control Options: 5s/ 30s/ 1min/ 2min/ 3min/ 5min/ 10min/ 15min/ 20min, 25min/30min/ 45min/ 60min/ 90min/ 120min	
	Daylight Threshold	Disable/400Lux/350Lux/300Lux/250Lux/200Lux/120Lux/ 80Lux/50Lux/30Lux/10Lux/2Lux	
	Standby Dimming Level	10%/20%/30%/50%	
	Standby Period	Remote control Options: 0s/ 10s/ 30s/ 1min/ 5min/ 10min/ 30min/ 60min/+00 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 $+\infty$;	
		Standby dimming level as 10%/20%/30% 1. Adjust "daylight" value higher than 50lux	
	Daylight Harvesting	 Adjust daylight value light than solux Preset "standby period" 0S press MW/PIR button 3 times till MW/PIR icons both blicking on LCD screen, daylight harvesting function enabled. (With BLE verison, press DH button, daylight harvesting function enabled.) 	
BLUETOOTH INFORMATION	Wireless Control Range	>20m/65ft	
	APP Download	Supported in both APP Store and Google Play Market	
INPUT	Input Range	12VDC	
	Voltage Range	10-15VDC	
	Current	Remote control Options: <30mA APP Control Options: <40mA	
OUTPUT	Signal	DIM 0-10V	
	Connection	TipDIM+、RingVCC、SleeveGND	
	Stand-by Power	<0.5W	
ENVIRONMENT	Working Temp	-25°C~+60°C	
	Storage Temp	-40°C~+80°C Humidity: 85% (non-condensation)	
	Environmental Requirements	In accordance with CE ROHS	
CERTIFICATE & STANDARDS	IP Rating	IP20	

Model Information

Model Number	Sensor Type	Connector	Controller	Fixtures match
HD08VR-M-1	Microwave	Audio Jack	Remote Control HD05R	Different with regular fixtures, it requires Hilux audio-jack interface fixtures.
HD08VR-MB-1 🚷			haisen blue app	

Detection Coverage



HD08VR

Highest mounting height is 4m

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

Well Detected Area

Possibly Detected Area

Performance

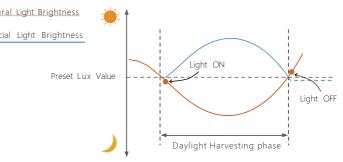
1.Daylight Harvesting

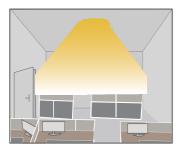
 1. Adjust "daylight" value higher than 50lux
 Natural Light Brightness

 2. Preset "standby period" 0S
 ArtiÞcial Light Brightness

 3. press MW/PIR button 3 times till MW/PIR icons both
 blicking on LCD screen, daylight harvesting function enabled.

 (With BLE verison, press DH button, daylight harvesting
 function enabled.)











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.

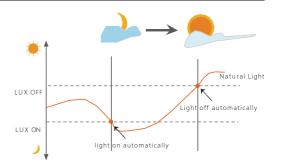
Light OFF when ambient brightness becomes higher than the preset lux level.

2.Dusk/Dawn function

HD08VR is able to differentiate artiPcial light brightness from natural light after installed inside the Pxture, and automatically turn off light when ambient brightness exceeds preset lux level.

Precondition of Dusk/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/ 200Lux/ 250Lux/300Lux/ 350Lux/ 400Lux



3. With Dusk/Dawn function



With insufPcient 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,Pxture 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 sufPcient ambient brightness, sensor will turn OFF light automatically.

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 sufÞcient daylight, the sensor keeps light OFF even motion gets detected



With insufbcient 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.

Attention

1. The sensor should be installed by qualiped electrician and ensure power is OFF before installation.

2. Please read the instruction carefully before using the product and keep it well for other users to read any time.

3. We reserve the right to modify any incorrect text, image and technical parameters.

4. Any unauthorized modi Dcation 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 ceiling mount installation, adjust sensitivity properly if it's installed on side-wall because it gets more sensitive.

3. Adjust sensitivity properly when the sensor is applied in small/narrow/metal-built/with metal spaces.

4. Microwave sensor can't be placed under/inside metal shell; Microwave module must directly face the detection area with edge lower than light Pxture.

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 can't completely turn OFF, sensor can't either.

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

11. The Þrst time powered ON sensor, light will be ON 100% for about 10S then dims to standby level or OFF.

12. Distance detection is delivered by testing person about 165cm in open area as reference, the result differs by size and speed of moving objects, mountng height and real-life situation.