



Haisen DC PC Powered Bi-level Dimming Dusk/Dawn Microwave Step-Dimming Sensor



HD07VR-MH-B-1

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The LITELUME™ Haisen Plug and Play Microwave bi-level dimming sensor designed for applications where the fixture accepts standard RCA Audio Jack. Remote control is available/required for adjusting sensor parameters after fixture has been installed. *MAXIMUM MOUNTING HEIGHT 49'



FEATURES & BENEFITS

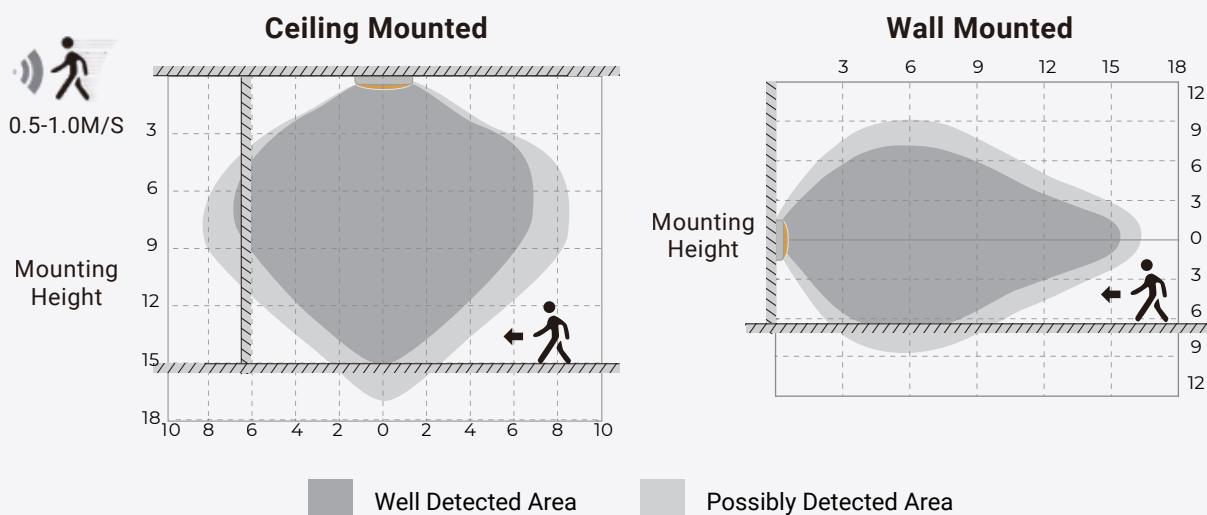
- Microwave sensor head, 12VDC powered, remote control.
- Bi-level dimming, daylight threshold & dusk/dawn function.
- With Audio Jack, suitable for UFO highbay application.
- UL Certified



DETECTION COVERAGE

Maximum Mounting Height: 49 ft.

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





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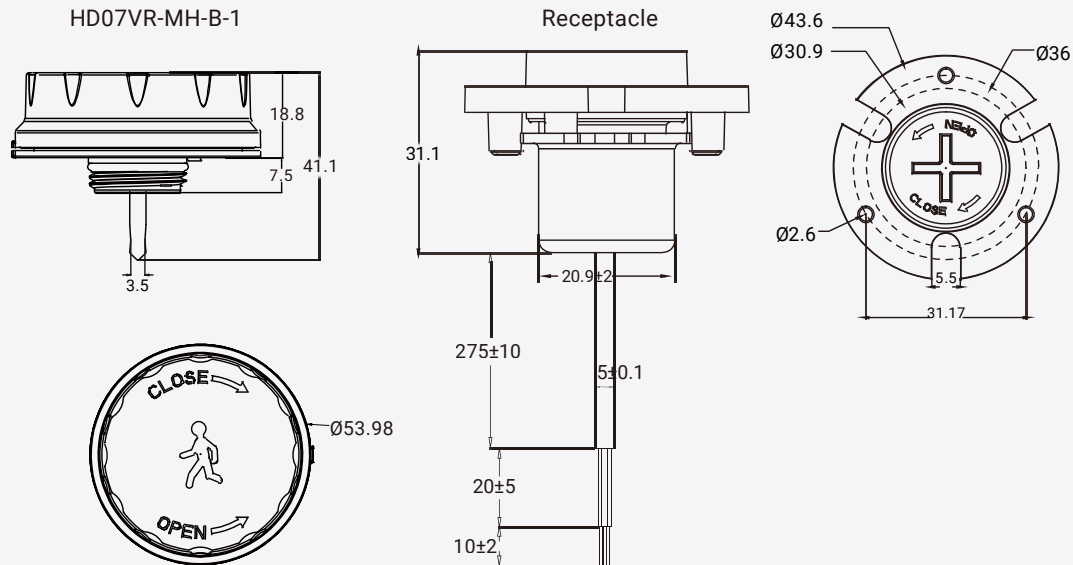
SPECIFICATIONS

MICROWAVE INFORMATION	Frequency	5.8GHz±75MHz
	Microwave Power	<0.3mW
	Installation Height	15m/49.21ft Max.
	Detection Distance	≥3m/9ft
	Warranty	5 Years
SENSOR PARAMETER	Detection Area	25%/50%/75%/100%
	Holdtime	5s/30s/1min/3min/5min/10min/20min/30min
	Daylight Threshold	Disable/ 2lux/ 10lux/ 30lux/ 50lux/ 80lux/ 120lux
	Standby Dimming Level	10%/20%/30%/50%
	Standby Period	0s/10s/30s/1min/5min/10min/30min/60min+∞
	Dusk/Dawn Sensing/Photocell	- Daylight threshold is 30lux/ 50lux/ 80lux/ 120lux - Standby period is +∞ ; - Standby dimming level is 10%/20%/30%
	Default Program	- Detection Area - 100% - Holdtime - 5S - Daylight Threshold - disable - Standby Period - 0S - Standby Dimming Level - 10%
INPUT	Control	Standard Partner HD05R, the LCD screen display remote (seperate)
	Input Range	12VDC
	Voltage Range	10-15VDC
	Current	≥30mA
OUTPUT	Signal	DIM 0-10V
	Connection	12VDC input/ Black&White wire; DIM+/ Purple wire; DIM-/ Pink wire
	Stand-by Power	<30mA Power Consumption
ENVIRONMENT	Working Temp	-20°C~+60°C
	Storage Temp	-40°C~+80°C Humidity: 85% (non-condensation)
CERTIFICATES & STANDARDS	Certification	UL (E529048)
	Environmental Requirements	In accordance with CE ROHS
	IP Rating	IP65
PACKAGE	Silk-Printing	Lasering
	Packing Description	1pcs/white neutral box
	Qty/ctn(pcs)	120
	Net Weight/pcs (kg)	0.05
	Gross Weight/CTN (kg)	11
	Carton Size (cm)	40*30*25

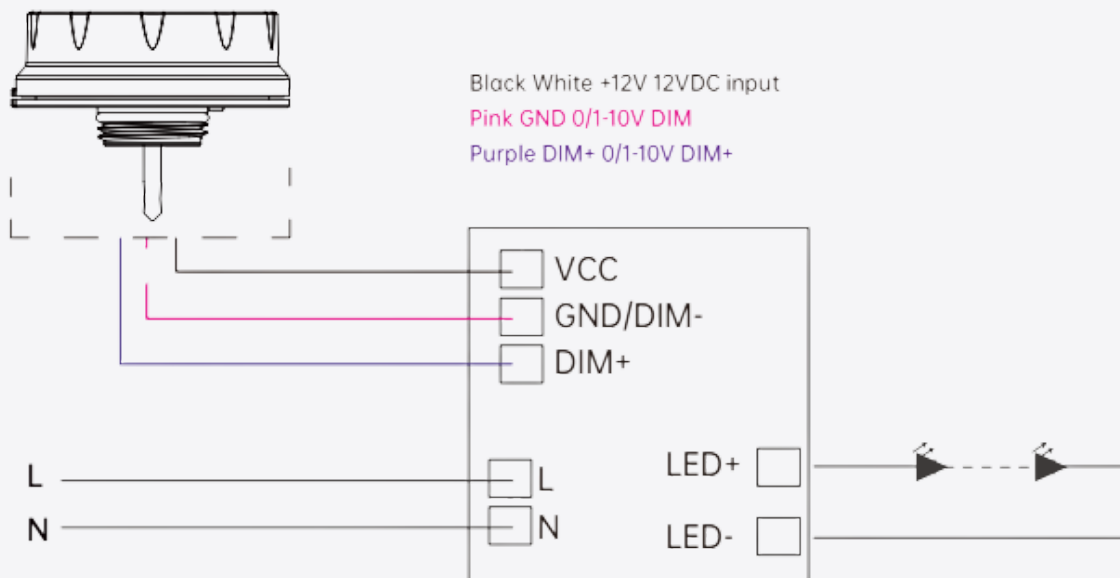


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DIMENSIONS



WIRING DIAGRAM





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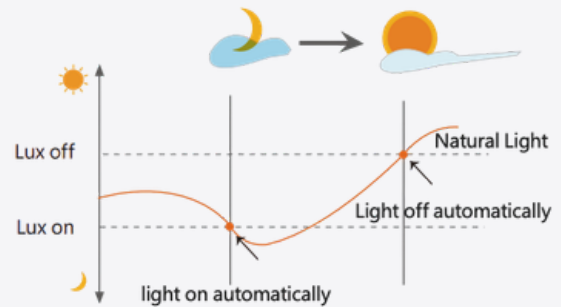
PERFORMANCE

Dusk/Dawn Function

HD07VR-MH-B-1 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 Dawn/Dusk Function:

1. Standby period is $+\infty$
2. Standby dimming level is on 10%, 20%, or 30%
3. Daylight threshold is on 30lux/ 50lux/ 80lux/ 120lux



With Dusk/Dawn Function



With insufficient ambient brightness, the sensor will turn ON the light and keep it at standby dimming level even if there is no motion or presence.



When the 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 holdtime.



After the preset holdtime period, the light will dim to the standby dimming level again and remain at that level.



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

Without Daylight Disabled



Sensor will turn light ON when motion is detected.



Sensor keeps for a holdtime period after motion leaves.



After holdtime, sensor will dim light to standby dimming level if no motion has been detected.



Sensor turns OFF light after standby period.



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PERFORMANCE

With Daylight Threshold



With sufficient daylight, the sensor will keep the light OFF even if motion is detected.



With insufficient daylight, the sensor will turn the light ON when motion is detected.



After there's no motion detected, the sensor will keep the light ON 100% for holdtime.



After holdtime, the sensor will dim light to standby dimming level for standby period. If the standby period has been set as 0s, the sensor will turn light OFF automatically after holdtime.



The sensor will turn OFF light automatically after the standby period once no motion is detected.

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 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 can't completely turn OFF, sensor can't either.
10. Input power voltage must be stable with float less than 10%.
11. The first 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, mounting height and real-life situation.



Attention

1. The sensor should be installed by qualified 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 modification is forbidden. Otherwise all guarantees will be immediately invalid.
5. Product could be optimized without prior notice.



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PROJECT NAME	
CATALOG #	
JOB TYPE	
PREPARED BY	
NOTES	

ORDERING INFORMATION

Part #	Description
HD07VR-MH-B-1	Haisen DC Powered Bi-Level Dim Dusk/Dawn Microwave Bi-Level-Dimming Sensor * Maximum Mounting Height 49'