

Microwave Occupancy Sensor

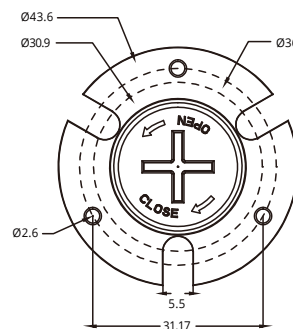
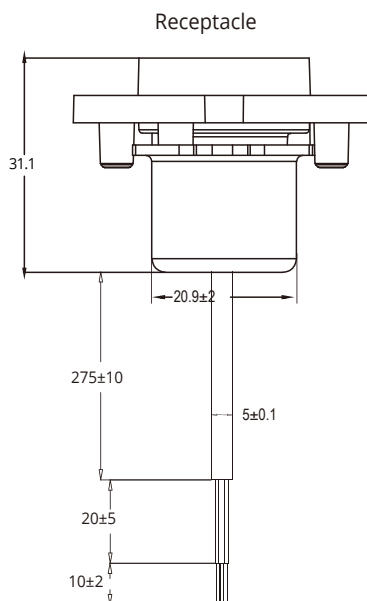
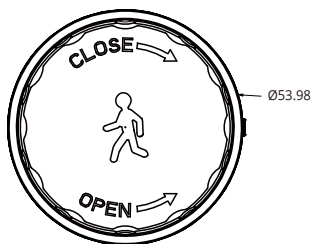
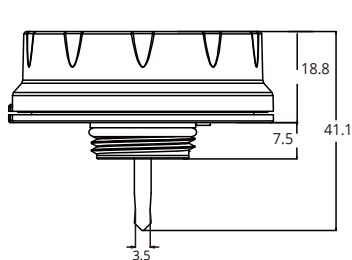
Features & Benefits

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

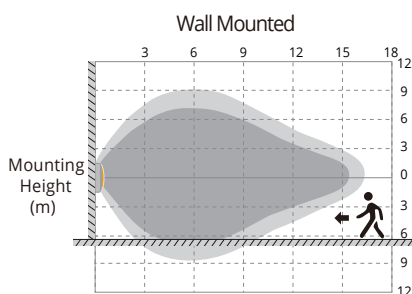
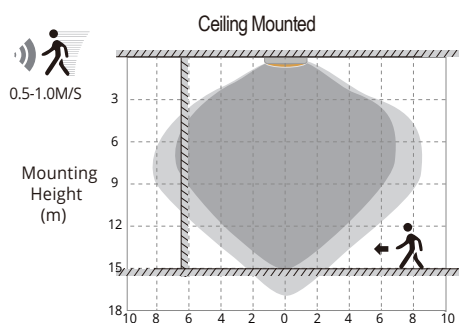


Dimensions

Unit:mm



Detection Coverage



Highest mounting height is 49 ft (15m)

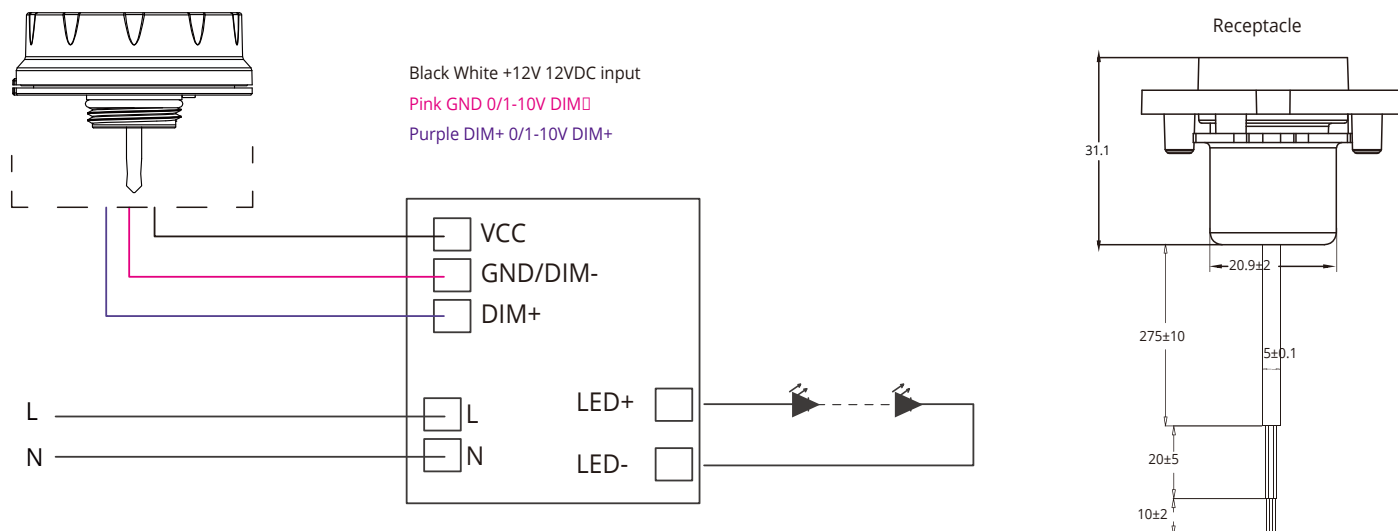
These figures indicate the maximum distance at the highest mounting height with 100% sensitivity

Well Detected Area Possibly Detected Area

Parameters

Model NO.		VALOSM
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 as 30lux/ 50lux/ 80lux/ 120lux Standby period as +∞ ; Standby dimming level as 10%/ 20%/ 30%
	Default Program	Detection Area - 100% Holdtime - 5S Daylight Threshold - disable Standby Period - 0S Standby Dimming Level - 10%
	Control	Standard Partner OS5REM, the LCD screen display remote (purchase separately)
INPUT	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)
CERTIFICATE & 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

Wiring Diagram



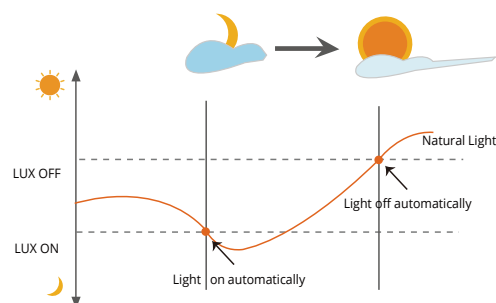
Performance

Dusk-to-Dawn Function

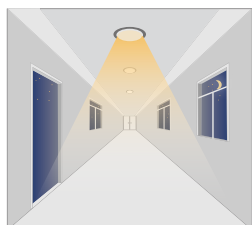
Sensor is able to differentiate artificial light brightness from natural light after installed inside the fixture, and automatically turn off light when ambient brightness exceeds preset lux level.

Pre-condition of Dusk-to-Dawn Function:

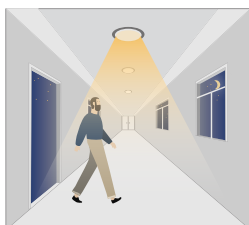
1. Standby period is +∞
2. Standby dimming level is on 10%, 20% or 30%
3. Daylight threshold is on 30lux/ 50lux/ 80lux/ 120lux



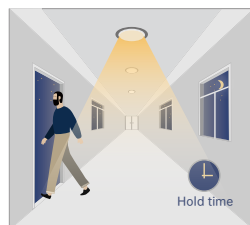
1. With Dusk/Dawn Function



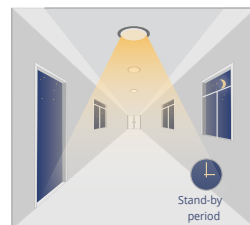
With insufficient ambient brightness, sensor turns ON light and keeps it at standby dimming level even if there is no motion or presence



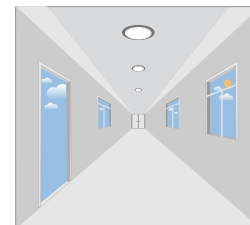
When sensor detects motion or presence, it will bring the light level up to 100%



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

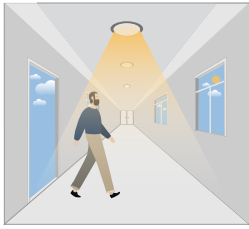


After pre-set hold time period it will dim light to standby dimming level again and remain there

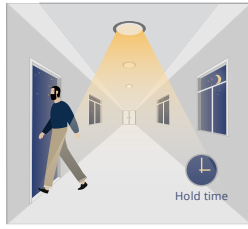


With sufficient ambient brightness, sensor will turn OFF light automatically

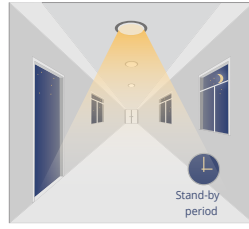
2. With Daylight Disabled



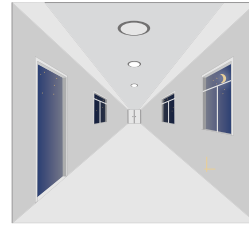
Sensor turns ON light when motion is detected



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

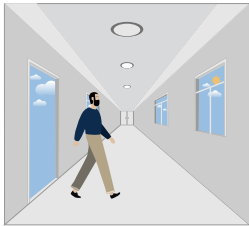


Sensor dims light to standby dimming level after hold time if there is still no motion

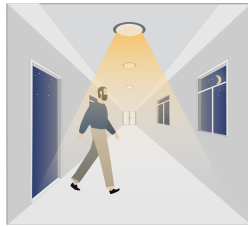


Sensor turns light OFF after standby period

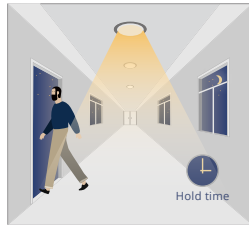
3. With Daylight Threshold



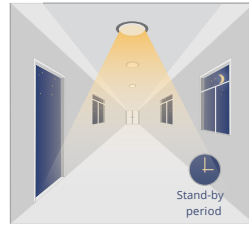
With sufficient daylight, the sensor keeps light OFF even when motion is detected



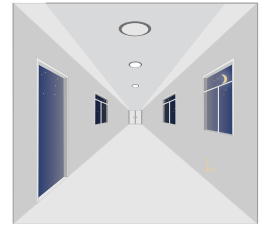
With insufficient daylight, the sensor turns light ON when motion is detected



After there's no motion 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



Attention

1. The sensor should be installed by qualified electrician and ensure power is OFF before installation
2. Please read the instructions carefully before using the product and store safely 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 can be optimized without prior notice

APPLICATION NOTES

- Suitable for indoor applications, half/completely outdoor environment conditions might cause false triggers
- Suitable for ceiling mount installation, adjust sensitivity properly if installed on side-wall as it will be more sensitive
- Adjust sensitivity properly when the sensor is applied in small/ narrow/ metal-built/ with metal spaces
- Microwave sensor can't be placed under/ inside metal shell; Microwave module must directly face the detection area with edge lower than light fixture
- Keep the sensor away from vibration equipment, air-conditioning outlets, smoke extractors or similar conditions to avoid false triggers
- Keep the sensor module away from AC input and DC output to avoid high/ low frequency signal interference
- Keep 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
- Daylight testing conducted on a bright day without shadows or specially designed lampshade or lens
- Dimming performance differs when connected to different drivers; If the driver can't completely turn OFF, sensor can't either
- Input power voltage must be stable with float less than 10%
- The first time the sensor is powered ON, light will be ON 100% for about 10 sec then dims to standby level or OFF
- Distance detection is delivered by testing a person about 5.5 ft in an open area as reference, the result differs by size and speed of moving objects, mounting height and real-life situation