

## BI-LEVEL MICROWAVE SENSOR FOR LOW BAY LIGHT

## MMS-DC-MW3C

Bi-level Microwave Sensor

### DESCRIPTION

The MMS-DC-MW3C is a motion sensor that dims lighting from high to low based on movement. This slim, low-profile sensor is designed for internal installation in fixture. The sensors use microwave sensing technology that reacts to changes in movement within the coverage area. Once the sensor stops detecting movement and the time delay elapses lights will go from high to low mode and eventually to an OFF position if it is desired. Sensors must directly "see" motion of a person or moving object to detect them, so careful consideration must be given to sensor luminaire placement and lens selection. Avoid placing the sensor where obstructions may block the sensor's line of sight.



RC-100

### SPECIFICATION FEATURES

#### Benefits

- Power input: 10-14VDC.
- Built-in daylight sensor.
- Controls 0-10V dim-to-off LED drivers or dimming ballasts.
- Detection area, time delay and daylight threshold & harvesting can be precisely set via remote control RC-100.
- 24 ft in diameter detection range and mounting height 12 ft Max.
- Internal installation.



Max. 12ft



Mounting Height  
12ft Max.



Daylight  
Threshold & Harvesting



Hold Time  
10S-60min



Automatic  
Dimming



5 Years  
Guarantee

#### WARNING

NOTE: Warm up time is 40 seconds. After the sensor connects input power first time, the light will keep on 40 seconds, then go to dimming to work normally.

NOTE: Factory Default Setting: Brightness 100%, Sensitivity 100%, Hold on time: 5min, Daylight sensor is disabled ✕, Dimming level: 30%, Dimming time: 60 mins.

NOTE: Any setting changed by remote control, the led light that sensor connected will on/off as confirm.

## ORDERING INFORMATION

Available with the following Alphalite products:

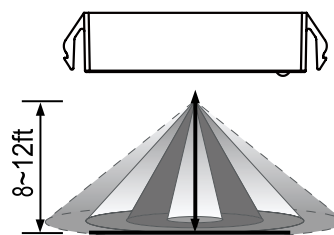
ILL Series



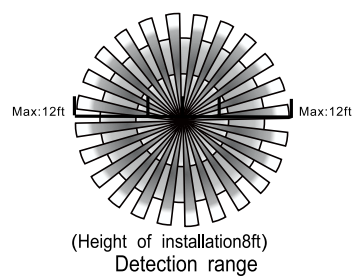
## SUMMARY

Power Supply	10-14VDC, >50mA
Dim Control Output	0-10V, max. 25mA sinking current
Remote Range	50ft.(15m) indoor
Detection Radius	Max. 12ft/360°
Mounting Height	Max. 12ft.(4meters)
Time Setting	10S to 60 mins
Light-control	10 to 500lux
Temperature	-40°F - +158°F (-40°C~+70°C)
IP Rating	IP20

## SENSOR COVERAGE

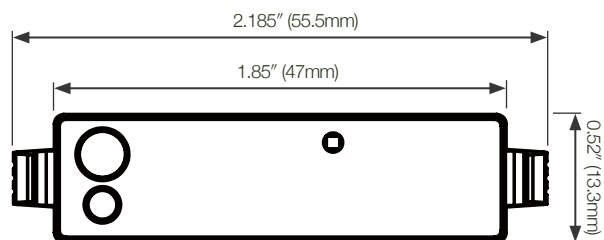


Height of installation 8~12ft



## PHYSICAL PARAMETERS

### DIMENSION



### Corridor Function

This function inside the motion sensor to achieve tri-level control, for some areas which require a light change notice before switch-off. The sensor offers 3 levels of light: 100%-->dimmed light (natural light is insufficient) -->off; and 2 periods of selectable waiting time: motion hold-time and stand-by period; Selectable daylight threshold and freedom of detection area.



With sufficient natural light, the light does not switch on when presence is detected



With insufficient natural light, the sensor switches on the light automatically when presence is detected



After hold-time, the light dims to stand-by level if the surrounding natural light is below the daylight threshold.



Light switches off automatically after the stand-by period elapses.

### Smart Daylight Sensor Function

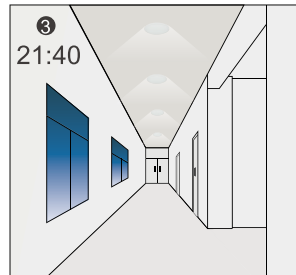
Open the daylight sensor by push **Ⓜ** when remote control is in setting condition



The light switches on at 100% when there is movement detected.



The light dims to stand-by level after the hold-time.



The light remains in dimming level at night

Setting on this demonstration:

Hold-time: 30 min

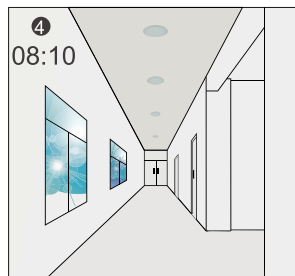
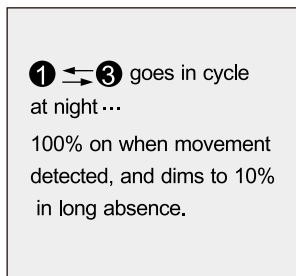
Setpoint on: 50lux

Setpoint off: 300lux

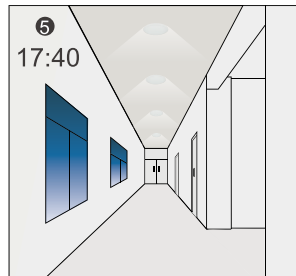
Stand-by dim: 10%

Stand-by period: + ∞

(When the smart photocell sensor open, the stand-by time is only + ∞ )




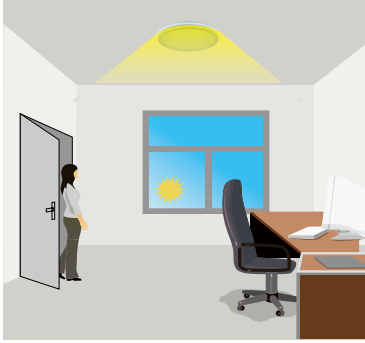
When the natural light level exceeds set point off to light, the light will turn off even if when the space is occupied.



The light automatically turns on at 10% when natural light is insufficient (no motion).

## Daylight Harvesting

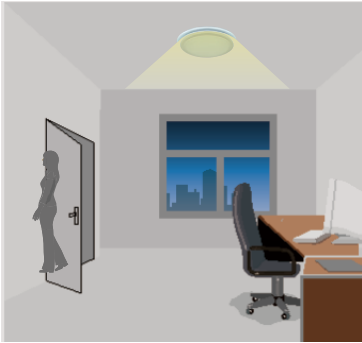
Open the daylight harvesting function only by choosing “” button when remote control is in setting condition, Memory and maintain current ambient brightness.



When the natural light is sufficient or dark, movement is detected and the light will turn on 100% brightness.




The light turns on at full or dims to maintain the lux level. The light output regulates according to the level of natural light available.



The light dims to stand-by period after hold-time and stays on selected minimum level.



The light switches off completely after the stand-by period.

Setting on this demonstration:  
 Brightness: 100%  
 Sensitivity: 100%  
 Hold-time: 30 min  
 Daylight sensor:   
 Stand-by dim: 30%  
 Stand-by period time: 1 min

## Wiring Diagrams

