

PROJECT NAME

CATALOG NO.

TYPE

DATE

NOTE

## MMS MICROWAVE SENSOR SERIES - MMS-810

**MMS Series**  
Microwave Occupancy  
Sensor

### DESCRIPTION

MMS-810 is an innovative and active motion detectors with HF system 5.8GHz. Motion can be detected through plastic, glass and thin non-metal materials.

This sensor is particularly designed to mount in an lighting luminaire and provide multi-level control based on motion and/or daylight contribution. It controls 0-10V VDC LED drivers or dimming ballasts, as well as non-dimming ballasts. All control parameters and adjustable via a wireless configuration tool capable of storing and transmitting sensor profiles.



MMS-810



MMS-810-RC



### SPECIFICATION FEATURES

#### Benefits

- Provides line voltage On/Off switching and 0-10V dimming control.
- High and low modes fully adjustable from 0-10V.
- Time delay from 5 to 30 minutes.
- Adjustable ramp up and fade down times.

#### Certifications / Regulatory

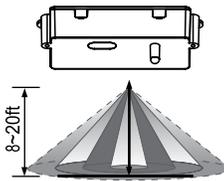
UL/cUL and FCC listed. All components used have UL approval.

#### Warranty

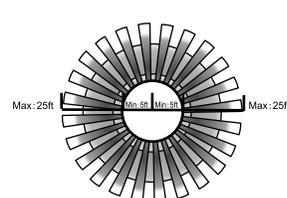
5-year limited warranty. See complete warranty terms for details.

### PERFORMANCE

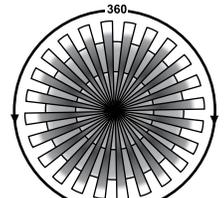
Operating voltage	120-277Vac, 50/60Hz
Rated load	Resistive/Tungsten - 600W @120V Ballast Electronic (LED) - 800/1200VA2 @20-277V
HF system	5.8GHz CW
Mounting height	20ft Max.
Detection angle	Max meters/360°
Humidity	Max. 95% RH
Operating temperature	-40°F~158°C (-40°C~70°C)



Height of installation 8~20ft

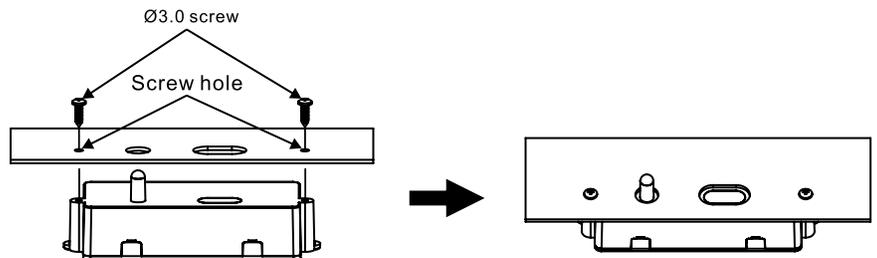
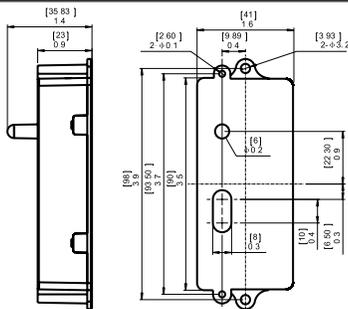


(Height of installation 8ft)  
Detection range

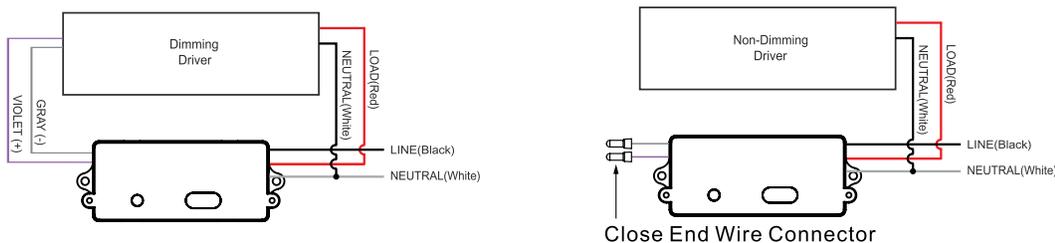


Detection angel

### DIMENSION



### WIRING DIAGRAM



**DETECTION AREA:**

Detection area can be reduced by selecting the combination on the DIP switches to fit precisely each application .

		1	2	
ON ↑ 	I	ON	ON	100%
	II	ON	-	75%
	III	-	ON	50%
	IV	-	-	25%

**HOLD TIME:**

Refers to the time period the lamp remains at 100% illumination after no motion detected.

		3	4	5	
ON ↑ 	I	ON	ON	ON	5S
	II	-	ON	ON	30S
	III	ON	-	ON	90S
	IV	-	-	ON	3min
	V	ON	ON	-	20min
	VI	-	-	-	+∞

**STAND-BY PERIOD:**

Refers to the time period the lamp remains at a low light level before it completely switches off in the long absence of people. When set to Disable mode, the low light is maintained until motion is detected.

		6	7	8	
ON ↑ 	I	ON	ON	ON	0S
	II	-	ON	ON	5S
	III	ON	-	ON	5min
	IV	-	-	ON	10min
	V	ON	ON	-	30min
	VI	-	ON	-	1h
	VII	-	-	-	+∞

**STAND-BY DIMMING LEVEL:**

The low light level you would like to have after the hold time in the long absence of people.

		1	2	
ON ↑ 	I	ON	ON	50%
	II	-	ON	30%
	III	ON	-	20%
	IV	-	-	10%

**DAYLIGHT SENSOR:**

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold.

When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light level.

100lux, 100lux,50lux: twilight operation, 10lux, 5lux: darkness operation only. Note that daylight sensor is active only when lamp totally switches off.

		3	4	5	6	
ON ↑ 	I	ON	ON	ON	ON	5Lux
	II	-	ON	ON	ON	15Lux
	III	ON	-	ON	ON	30Lux
	IV	-	-	ON	ON	50Lux
	V	ON	ON	-	ON	100Lux
	VI	ON	ON	ON	-	150Lux
	VII	-	-	-	-	Disable