Microwave Motion Sensor
Product Specifications

MS1 is an innovative motion detector that uses 5.8GHz high frequency that can detect motion through plastic, glass and thin non-metal materials.

The sensor supplies a simple energy-saving solution to use light only when and where you need it. It automatically switches on/off light based on motion and ambient light level. The MS1 can control a variety of luminaires such as halogen, fluorescent and LED.

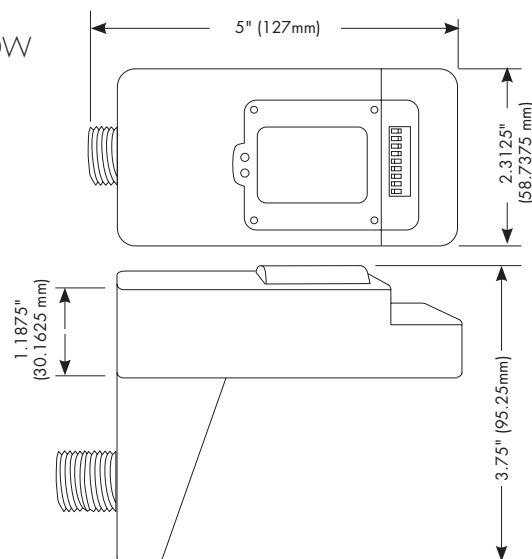## Reasons to choose the Microwave Motion Sensor from TCP

- Automatic switching based on motion and light level
- Zero-crossing point operation helps protect the sensor against in-rush current
- Quick connector enables easy installation with TCP high bays (HB105/HB150/HB210)

- Detection area, time delay and daylight threshold can be precisely set via DIP switch
- Wide detection area, range up to 16m in diameter
- 5.8GHz microwave module provides detection for mounting heights up to 15m
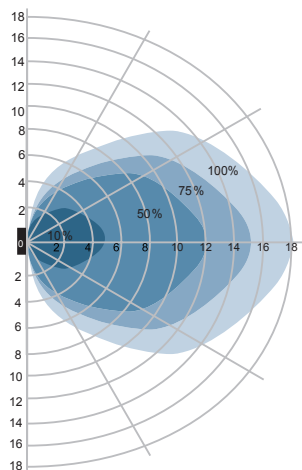
Ideal Applications
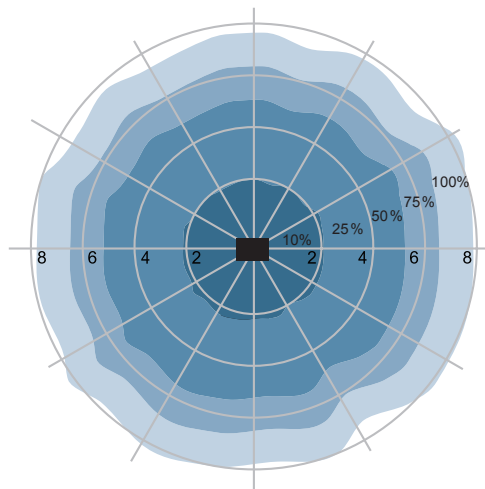
- Warehouses
- Storage

- Manufacturing Facilities

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5 YEAR WARRANTY

Specifications

Operating voltage	120-277Vac, 50/60Hz
Rated load	120V @ 400W; 220-240V @ 800W; 277V @ 1000W
HF System	5.8GHz ± 7.5MHz, ISM wave band
Transmitting power	<0.5mW
Power consumption	≤0.5W (standby)
Detection zone	Max.(D x H): 16m x 15m
Detection sensitivity	10% / 50% / 75% / 100%
Hold time	5s / 30s / 90s / 3min / 20min / 30min
Daylight sensor	2 Lux / 5 Lux / 10 Lux / 25 Lux / 50 Lux / 100 Lux / Disable
Mounting height	15m Max.
Motion detection	0.5-3m/s
Detection Angle	150°(wall installation) 360°(ceiling installation)
Operating temperature	-20°C - 60°C
IP rating	IP20

5" (127mm)
2.3125" (58.7375 mm)
1.1875" (30.1625 mm)
3.75" (95.25mm)

Detection Pattern

Wall Mounting Pattern (Unit: m)

Ceiling Mounting Pattern (Unit: m)

Setting the Sensor

By selecting the combination on the DIP switch, sensor data can be precisely set for each specific application.

		1	2	
ON	I	ON	ON	100%
	II	ON	—	75%
	III	—	ON	50%
	IV	—	—	10%

Detection area

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

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Setting the Sensor (continued)

ON		3	4	5	
	I	ON	ON	ON	5s
	II	—	ON	ON	30s
	III	ON	—	ON	1min
	IV	—	—	ON	3min
	V	ON	ON	—	20min
	VI	—	—	—	30min

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

ON		6	7	8	
	I	ON	ON	ON	0s
	II	—	ON	ON	5s
	III	ON	—	ON	5min
	IV	—	—	ON	10min
	V	ON	ON	—	30min
	VI	—	ON	—	60min
	VII	—	—	—	$+\infty$

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"$+\infty$ "mode, the low light is maintained until motion is detected.

ON		1	2	3	4	5	
	I	ON	ON	ON	ON	ON	5lux
	II	—	ON	ON	ON	ON	15lux
	III	ON	—	ON	ON	ON	10lux
	IV	ON	ON	—	ON	ON	25lux
	V	ON	ON	ON	—	ON	50lux
	VI	ON	ON	ON	ON	—	100lux
	VII	—	—	—	—	—	Disable

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.

30lux, 50lux, 100lux,:twilight operation; 5lux, 15lux: darkness operation only.

Note: the daylight sensor is active only when the lamp totally switches off.

ON		1	2	
	I	—	ON	50%
	II	ON	—	20%
	III	—	—	10%

Standby dim level
Choose what daylight and motion sensing options are needed.

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TECHNOLOGY CAST IN A BEAUTIFUL LIGHT

For over 20 years, TCP has been designing, developing and delivering energy-efficient lighting into the market. Thanks to our cutting-edge technology and manufacturing expertise, we have shipped billions of high quality lighting products. With TCP, you can count on a lighting product that is designed to meet the needs of the market - that transforms your surroundings and envelopes you in warmth - lighting that generates beauty with every flip of the switch.

Sales:

Date:

Model:

Project:

Rep:

Catalog Number:

Type:

Notes:

TCP
we know light.™