

INSTRUCTION MANUAL MS370

360° True Presence Microwave Sensor



Indoor Installation

1. INTRODUCTION

The MS370 incorporates advanced technology which allows the sensor to pick up the smallest of movements including typing on a keyboard or breathing. The MS370 is a True Presence Microwave Sensor, also known as an Occupancy Sensor, which allows one to automatically turn on lights or electrical devices within the sensors rated load. This true presence microwave sensor detects through obstacles like doors, glass panels and thin walls, with a 360° detection range and adjustable settings for time and Lux level. Easily integrated into new or existing installations. Its IP20 rating is limited to surface mount indoor use and installation must be done by a qualified electrician.

2. SPECIFICATIONS

Function	Range
Voltage	220 - 240V AC
Power Frequency	50/60 Hz
Ambient Light	<3 - 2000 Lux (Adjustable)
Time Delay	10 sec (±3 sec) to 12 min (±2 min)
Rated Load	2000W Incandescent/ 1000W LED/CFL
Detection Area	360°
HF System	24GHz CW Radar, ISM Band
Detection Distance	6m Presence, 12m Movement
Detection Motion Speed	Presence
Mounting	Ceiling Mount

Function	Range
Working Temperature	-20~40°C
Working Humidity	<93% RH
Power Consumption	<10mW
Installation Height	2 - 4m
IP Protection	IP20 Indoor
Swivel Head	No
Warranty	5 years
Standards	IEC 60669-1, IEC 60669-2-1
	AS/NZS 60669.1, AS/NZS 60669.2.1

3. FUNCTION

a. Sensor Can identify between day and night (Lux Mode):

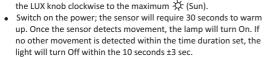
The consumer can adjust working state in different ambient light. It can work in the day time and at night when it is adjusted on the " 🔆" (sun) position (max). It can work in the ambient light less than 3 LUX when it is adjusted on the "3" position (min). As for the adjustment pattern, please refer to the testing pattern.

b. Time-Delay is added continually:

When the sensor detects movement while the light is already on, the countdown timer resets. This means the light will remain On for the full set duration from the moment of the latest detection.

c. Adjustable Time Delay:

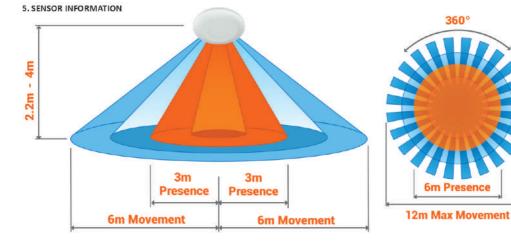
4. CONTROL SETTING INFORMATION Turn the TIME knob anticlockwise to the minimum (10s). Turn



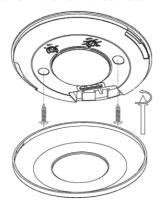
Turn the LUX knob anticlockwise to the minimum (3). If the ambient light is more than 3 Lux, the sensor is not able to function. If the ambient light is less than 3 Lux (dark), the sensor will operate.

The sensor can be set according to the consumer's desire (10s. 30s. 90s. 3m. 6min. 12min)

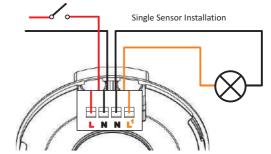
Note: When testing in daylight, please turn Lux knob to 💢 (Sun) position, otherwise the sensor will not work!



6. INSTALLATION & WIRING OPTIONS



- Unscrew and remove fixing bracket from base of the sensor.
- Insert the power cable into the slot provided.
- Connect the power cable into the terminal block as per the wiring diagram.
- Identify the ideal field of view and use fixing bracket mounting holes to ensure correct alignment for motion sensor.
- Drill holes and screw the fixing bracket to the marked location.
- Reconnect the sensor to the fixing bracket and fasten the screws.
- Once installation is complete, swivel the head to point in the intended direction, secure it, and turn on the power to test.



obstructions. These occupancy sensing methods help ensure

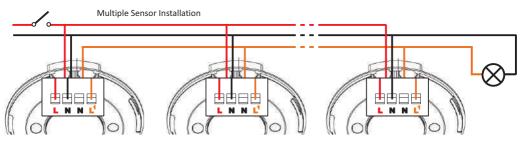
that the lights or other electrical equipment systems only run when needed, saving energy without omitting you in the

WARNING: Danger of Death Through Electrical Shock

· Must be installed by professional electrician.

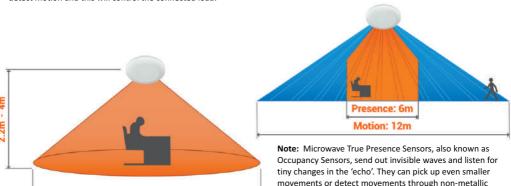
2m - 6m Max

- Disconnect power source.
- · Cover or shied any adjacent live components.
- Ensure device cannot be switched on.
- · Check power supply is disconnected.



7. PRESENCE & PIR SENSOR INFORMATION

- 1. When the detection distance is less than 3 meters, the sensor detects human presence(breathing) and keeps the connected load switched on without interruption, ensuring continuous illumination as long as presence is detected.
- At a detection distance of 3 to 4.5 meters, the sensor operates as a conventional microwave motion sensor, this means it will detect motion and this will control the connected load.



room.

8. TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	PROPOSED SOLUTION
Light or load does not turn on when movement is detected	1. No mains voltage	Ensure connections to the power source and load is correct Check the Circuit breakers and switches Ensure supply voltage is between 220V and 240V AC
	2. Surrounding light may be too bright	Check if the Lux setting corresponds with the ambient light conditions Relocate the sensor
	3. Control settings incorrect	Check if the Time delay is set to your required settings Check the Lux settings
	4. Sensor positioning is incorrect	Check if there is any hindrance in front of the detector which may affect the reception of signals Check if the ambient temperature is below 40°C Confirm the installation height is between 2.2m and 4m
	5. Lights turn off while working or sitting at a desk	Check Time delay setting Check the Lux levels
Light turns ON for no apparent reason (Intemittant fault)	1. Animals, birds or pets	This possibly could be unavoidable
	Heat sources such as air conditioners, vents or heat extractor ducts activating the sensor	Relocate the sensor Control settings may have been set at daytime which can affect the night distances and sensitivity. Reset at night
	3. Light operates during the day	Reduce the Lux setting to the desired light setting
	Sensor affected when switching On/Off lights, fans or electrical devices on the same circuit	Check for an arcing or faulty switches Connect the Microwave sensor to separate circuit
Light remains ON continuously	1. Control settings incorrect	Check Time delay setting Check the Lux levels
	2. False Triggering	Redirection of Microwave sensor may assist Check the controls for Time and Lux levels
	3. Interference by sunlight	 Control settings may have been set at daytime which can affect the night distances and sensitivity. Reset at night



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