



INSTRUCTION MANUAL

MS362

**360° Ceiling Mount &
180° Wall Mount
Microwave Sensor**



Indoor & Outdoor Installation

1. INTRODUCTION

The MS362 automatically turns on lights or any electrical device within the sensors rated load. It detects through obstacles like doors, glass panels, and thin walls, with a 360° detection range when mounted on a ceiling and 180° when wall mounted, and adjustable settings for time, Lux level and sensitivity. Easily integrated into new or existing installations, it excels in detecting subtle movements over large areas compared to PIR sensors. Its IP54 rating is suitable as an installation for indoor or outdoors under cover. Installation must be done by a qualified electrician.

2. SPECIFICATIONS

Function	Range	Function	Range
Voltage	220 - 240V AC	Working Temperature	-20°-40°C
Power Frequency	50/60 Hz	Working Humidity	<93% RH
Ambient Light	<3 - 2000 Lux	Power Consumption	<0.9W
Time Delay	10 sec (±3 sec) to 12 min (±1 min)	Installation Height	Ceiling: 1-3.5m, Wall: 1-3.5m
Rated Load	1200W Incandescent/ 600W LED/CFL	IP Protection	IP54 Indoor & Outdoor Installation (Outdoor Installation under cover)
Detection Area	360° (Ceiling), 180° (Wall)	Swivel Head	No
HF System	5.8GHz CW Radar, ISM Band	Warranty	5 years
Detection Distance	Ceiling: Min 5-15 (Adj), Wall: 5-15m (Adj)	Standards	IEC 60669-1, IEC 60669-2-1
Detection Motion Speed	0.6 to 1.5m/s		AS/NZS 60669.1, AS/NZS 60669.2.1
Mounting	Ceiling & Wall Mount		

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. Adjustable SENS (Sensitivity Mode):

Can be adjusted according to location. The detection distance of wall mounting (6 - 18 metres)

c. 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.

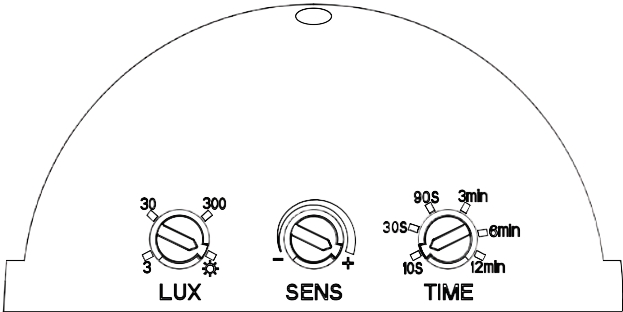
d. Adjustable Time Delay:

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

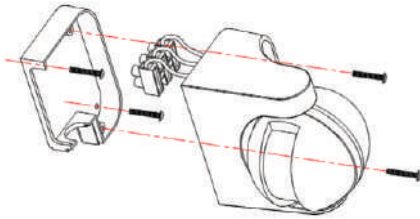
4. CONTROL SETTING INFORMATION

- Turn the TIME knob anticlockwise to the minimum (10s). Turn the LUX knob clockwise to the maximum ☀(Sun).
- Switch on the power; the sensor will require 30 seconds to warm up. once the sensor detects movement, the lamp will turn On. If no other movement is detected within the time duration set, the light will turn Off within the 10 seconds ±3 sec.
- 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.

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



5. INSTALLATION & WIRING OPTIONS

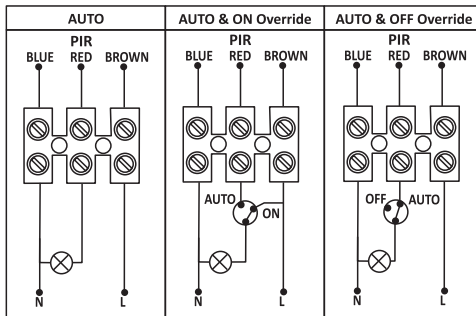


- Unscrew and remove fixing bracket from base of the sensor.
- Insert the power cable into the slot provided.
- Connect the power cable into the terminal block as per the wiring diagram.
- Identify the ideal field of view and use fixing bracket mounting holes to ensure correct alignment for motion sensor.
- 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.

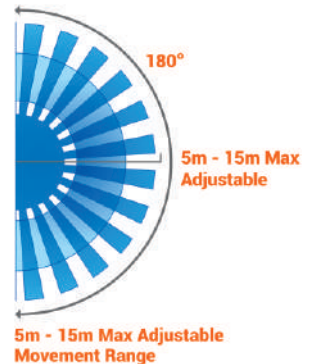
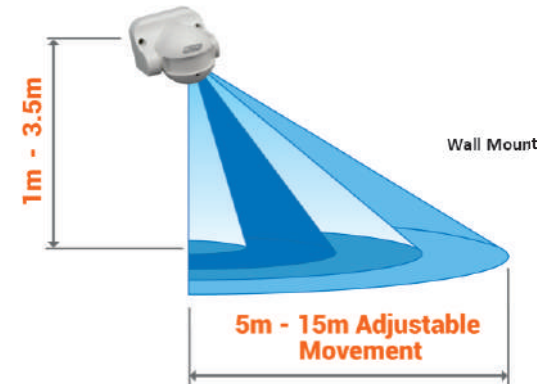
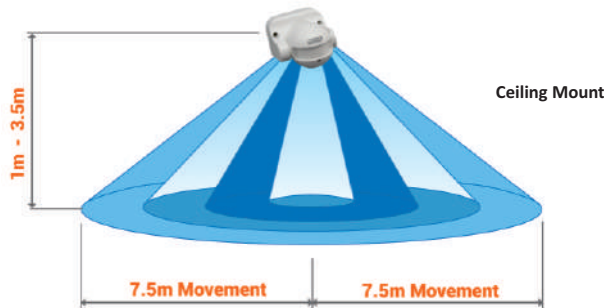
WARNING: Danger of Death Through Electrical Shock



- Must be installed by professional electrician.
- Disconnect power source.
- Cover or shield any adjacent live components.
- Ensure device cannot be switched on.
- Check power supply is disconnected.



6. MICROWAVE SENSOR INFORMATION



7. TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	PROPOSED SOLUTION
Light or load does not turn on when movement is detected	1. No mains voltage	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Check if the Lux setting corresponds with the ambient light conditions• Relocate the sensor
	3. Control settings incorrect	<ul style="list-style-type: none">• Check if the Time delay is set to your required settings• Check the Lux settings
	4. Sensor positioning is incorrect	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Check Time delay setting• Check the Lux levels
Light turns ON for no apparent reason (Intermittant fault)	1. Animals, birds or pets	<ul style="list-style-type: none">• This possibly could be unavoidable
	2. Heat sources such as air conditioners, vents or heat extractor ducts activating the sensor	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Reduce the Lux setting to the desired light setting
	4. Sensor affected when switching On/Off lights, fans or electrical devices on the same circuit	<ul style="list-style-type: none">• Check for an arcing or faulty switches• Connect the Microwave sensor to separate circuit
Light remains ON continuously	1. Control settings incorrect	<ul style="list-style-type: none">• Check Time delay setting• Check the Lux levels
	2. False Triggering	<ul style="list-style-type: none">• Redirection of Microwave sensor may assist• Check the controls for Time and Lux levels
	3. Interference by sunlight	<ul style="list-style-type: none">• Control settings may have been set at daytime which can affect the night distances and sensitivity. Reset at night



MAJOR TECH (PTY) LTD

South Africa

Australia

🌐 www.major-tech.com

🌐 www.major-tech.com.au

✉ sales@major-tech.com

✉ info@major-tech.com.au

