

INSTRUCTION MANUAL PIR48

Dual PIR Motion Sensor

180° Front Sensor 360° Bottom Sensor



Indoor & Outdoor Installation

1. INTRODUCTION

The PIR48 automatically turns on lights or any electrical device within the sensors rated load, when motion and body heat is detected. It has dual PIR Sensors for a 180° detection area in front of the sensor and a 360° detection area directly beneath the sensor. Both sensors and the adjustable settings for time and Lux level, allow the PIR48 to easily integrate into new or existing installations. With an IP65 rating, the sensor is intended for indoor or outdoor installations. 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 15 min (±2 min)
Rated Load	1200W Incandescent/ 600W LED/CFL
Front Detection Area	180°
Bottom Detection Area	360°
Front Detection Distance	12m Max
Bottom Detection Distance	6m Max
Mounting	Wall and Ceiling Mountable

Function	Range
Detection Motion Speed	0.6 - 1.5m/s
Working Temperature	-20~40°C.
Working Humidity	<93% RH
Power Consumption	Approx. 0.5W
Installation Height	1.8 - 2.5m
IP Protection	IP65 Indoor & Outdoor
Swivel Head	45° (L to R), 180° (Up/Down)
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:

The sensor can be set according to the consumer's desire (10s, 30s, 90s, 3min, 7min, 15min)

4. CONTROL SETTING INFORMATION

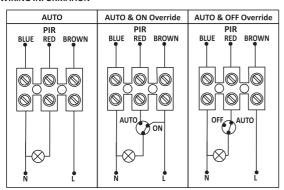
- Turn the TIME knob anticlockwise to the minimum (10s). Tun the LUX knob clockwise to the maximum 🔆 (Sun).
- Switch on the power; the sensor will require 30 seconds to warm up. Once the sensor detects movement, the lamp will turn On. If no other movement is detected within the time duration set, the 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!

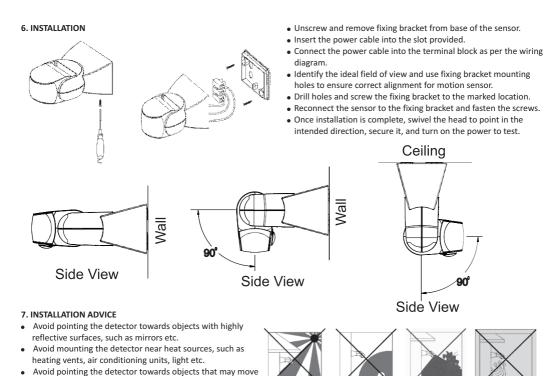


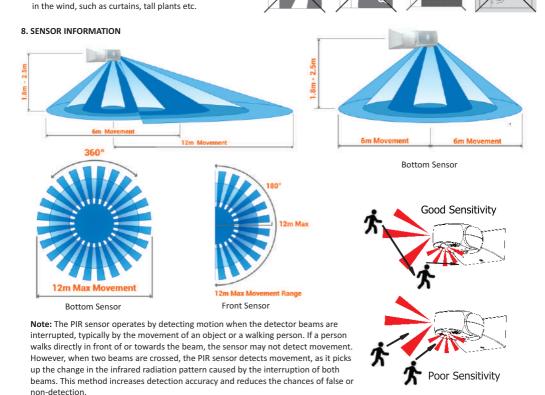
5. WIRING INFORMATION



WARNING: Danger of Death Through Electrical Shock

- Must be installed by professional electrician.
- Disconnect power source.
- Cover or shied any adjacent live components.





9. 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 Adjust direction of PIR sensor may assist or relocate PIR sensor
	3. Control settings incorrect	Check if the Time delay is set to your required settings Check the Sensitivity and 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 PIR sensor field of view is aiming in the correct direction Check if the ambient temperature is below 40°C Confirm the installation height is between 1.8m and 2.5m
Light turns ON for no apparent reason (Intemittant fault)	1. Animals, birds or moving trees	Check the Sensitivity setting, reduce if required Adjust direction of PIR sensor may assist
	Heat sources such as air conditioners, vents, heat extractor ducts or moving vehicles	Sensitivity adjustment may be required Redirection of PIR sensor may assist Control settings may have been set at daytime which can affect the night distances and sensitivity. Reset at night
	3. Light fitting heat	Adjust direction of sensor or light fitting to a minimum of 50mm between the two units Relocate PIR sensor or light fitting
	PIR Sensor affected when switching On/Off lights, fans or electrical devices on the same circuit	Check for an arcing fault in the switches Connect the PIR sensor to separate circuit
Light remains ON continuously	1. Control settings incorrect	Check Time delay setting Check the Sensitivity and Lux levels
	2. False Triggering	Redirection of PIR sensor may assist Check the controls for Sensitivity 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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