

SUMMARY

The MATElec Australia Sentry Motion Sensor is an extremely reliable, IP66 rated PIR motion sensor, suitable for a great range of applications.

SPECIFICATIONS

Power Source:	220V - 240VAC
Power Frequency:	50HZ
Ambient Height:	3 - 2000 LUX (adjustable)
Time Range:	10 seconds - 30 minutes
Rated Load:	2000W Resistive (Incandescent) 1000W Inductive (Fluoro or LED)
Detection Distance:	6m to 18m
Detection Range:	120°
Installation Height:	1.8m - 2.5m
Power Consumption:	0.5W
Connection:	3 wire
Manual Override:	Yes
Warranty:	5 years

OPERATION OVERVIEW

The Sentry has both Automatic Mode, and Manual Override.

Auto Mode

In Automatic Mode, the lighting load will turn ON when movement is detected in the sensing range, and the ambient light level is below the Lux setting. If no movement is detected, and the delay time has expired, the load will turn OFF automatically.

Manual Override

Manual Override mode is activated, with the switch in the ON position, turn OFF/ON twice, within the space of 3 seconds. The unit will remain on, regardless of movement or detection, for 8 hours, after which it will return to Auto Mode.

To deactivate Manual Override, prior to the 8 hours, switch OFF/ON once.

LOCATION

The Sentry needs to be carefully positioned to achieve optimum performance. The optimum installation height is 2.5m.

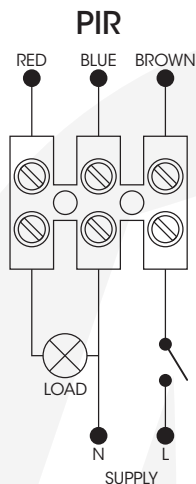
To avoid nuisance/false switching, the sensor should not be installed near the following:

Heat sources, such as heater vents, air conditioners, other lights, reflective sources, such as glass & mirrors.

MOUNTING PROCEDURE

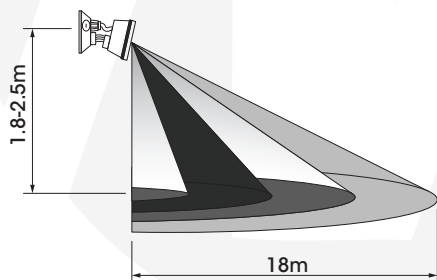
WARNING: ALL ELECTRICAL INSTALLATIONS MUST BE CARRIED OUT BY A SUITABLY QUALIFIED ELECTRICIAN IN ACCORDANCE WITH AUSTRALIAN AND LOCAL REGULATIONS

After identifying a suitable location, wire up the sensor as per the diagram below:

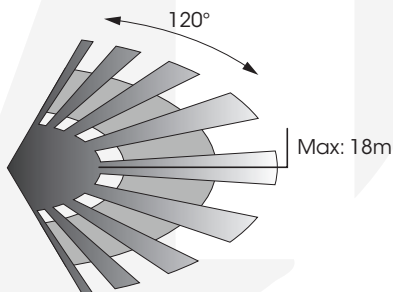


Using the supplied weatherproof seal, mount the sensor using the fixings provided.

SENSING INFORMATION



Height of Installation: 1.8-2.5m



Detection Distance: Max. 18m

SET UP AND TEST

The sensor has 3 adjustment dials. With the sensor OFF, set the adjustment dials as follows:

- Turn the TIME dial to minimum (10 s)
- Turn the SENS dial to maximum (+)
- Turn the LUX dial to maximum (sun)

Switch the power ON. The sensor will take approximately 30 seconds to calibrate. After this time, the sensor load will switch on. As soon as movement is detected. If no further movement is detected, the sensor will switch off the load in approximately 10 seconds. When testing the sensor, please move HORIZONTALLY ACROSS the beam, not DIRECTLY TOWARD the beam.

Once the sensor has been tested, please adjust the settings to the desired ranges.

TROUBLESHOOTING

Fault	Possible Issue	Possible Solution
Load does not activate	Power not turned on	Switch on the power
	Sensor is wired incorrectly	Check wiring is according to diagram
	Connected load is faulty	Check load is operational
Load does not turn off	Time settings too long	Adjust to shorter time and retest
	Manual Override is activated	Refer to Manual Override section
False triggering	Heat sources, Reflective Sources, or wind	Remove trigger sources, or change sensor location
Load turns ON in daylight	Lux settings incorrect	Adjust accordingly