OWPIR360S / OWPIR360SBK

Motion Sensor Passive Infrared Indoor

360 Degrees 3 Metre Detection 63mm Cut Out Small

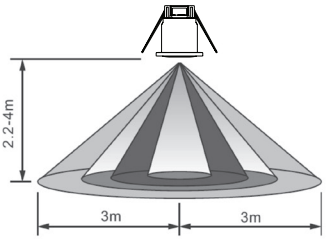
Manual

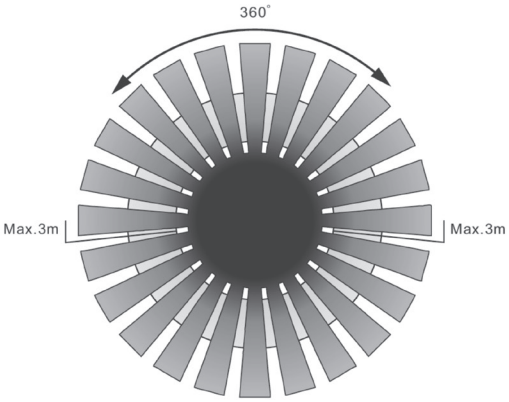
Specifications

Detection Range:	360°
Detection Distance:	3m radius max (<24°C)
Time-Delay / 'Switch On' Duration:	Min. 10sec±3sec
	Max. 7min±2min
Installing Height:	2.2m - 4m
Power Consumption:	<0.9W
Power Sourcing:	220V/AC-240V/AC
Power Frequency:	50/60Hz
Working Temperature:	-20 > +40°C
Ambient Light:	<10-2000LUX (Adjustable)
Rated Load:	800W (incandescent lamp)
	400W (energy-saving lamp)
Working Humidity:	<93%RH
Detection Motion Speed:	0.6 - 1.5m/s
SBL (LED):	100W

Welcome to the OWPIR360S indoor 360 degree infrared motion sensor!

This product features a high level of sensitivity, excellent performance and a practical size for convenience and safe, easy installation. It utilises the infrared energy from humans as the control-signal source and starts the load when one enters the detection field. It can identify day and night automatically and is extremely easy to install.





FUNCTION:

- Identifies day and night automatically. Can be adjusted for ambient light according to your desire: when turned to '+' (day/bright light), it will work during the day and at night. When turned to '-' (night/darkness), it will only work under less than 10LUX when set to the minimum. For adjustment instructions, please refer to the Test section.
- The 'Switch On Duration' is added to continually when the OWPIR360S receives additional sensor signals following the first initiation (if a presence continues to be detected). It then switches off after the 'Switch On Duration' completes its cycle and the triggering source is removed.
- Switch On Duration: this can be set according to your desire. The minimum is 10±3sec; the maximum is 7±2min.

MANUAL OVERRIDE:

When the power is initially turned ON, the fitting operates in AUTO mode. In this mode, the sensor turns the light ON and OFF automatically.

The MANUAL OVERRIDE function means that the fitting can be put permanently 'ON'. In this mode, the PIR sensor is disabled and the light stays on.

- Setting Manual Override (MO)

  The lamp must be on to initiate MO. Then turn the wall switch 'OFF' and 'ON' twice (with 2 second wait between each action).

  Wall switch action: OFF > ON > OFF > ON
- To change back to 'AUTO MODE', turn the power 'OFF' and wait for 10 seconds, then turn it back 'ON' again.

  Wall switch action: OFF > Wait 10 Secs > ON

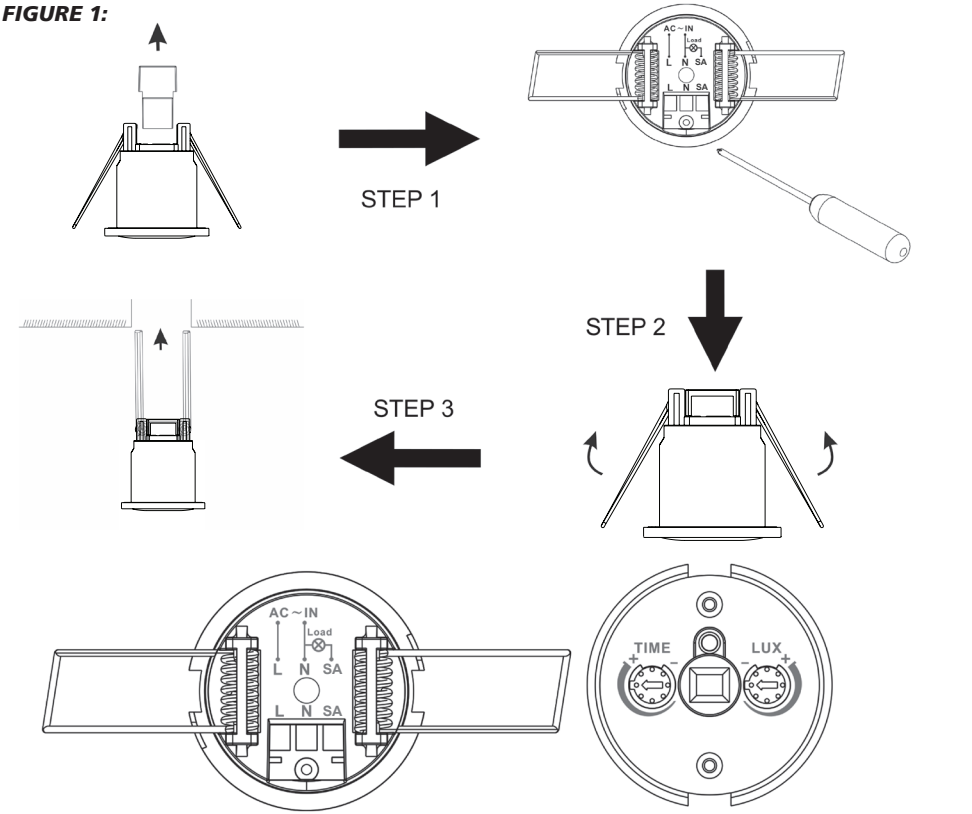
It is important to note that the wait time between switch actions is critical for this to function correctly. This tolerance on timing is tight to reduce the potential of nuisance triggering of this function.

It may take several attempts to get used to setting manual override.

INSTALLATION:

- Product must be installed by a licensed electrician.
- Turn off the power and isolate the mains.
- Mark out appropriate position in the ceiling (ensure it is at a suitable height) and drill a 40mm hole. Pull through the wiring to be connected, ensuring there are no obstructions in the ceiling space.
- Remove the transparent plastic cover that is covering the terminals.
- Loosening the screws in the terminal, connect the Active to the L terminal, Neutral to the N terminal and the Switched load into the SA Switched Active (Load) terminal and tighten all screws. See the detail in Figure 1.
- Replace the transparent plastic terminal cover into the original position and secure.
- To assemble into the ceiling, fold the metal springs of the sensor upwards until they are in the position shown in step 3 of Figure 1. Then position carefully into the hole in the ceiling, ease the sensor up gradually and the springs will release and pull the sensor into place.
- After installation, the sensor can be connected to power and you can commence testing and adjusting the settings by removing the front cover to adjust the small pot knobs.

FIGURE 1:



TEST:

- Turn the TIME knob anti-clockwise to the minimum, turn the LUX knob anti-clockwise to the maximum '+' (day/bright light)
- Turn on the power, the sensor will switch on and warm-up, 30 sec later, the unit will be entered into the functioning AUTO state.

- 5-10 seconds after the light goes out for the first time, the unit will start sensing, the load connected should switch on if triggered.
- Turn LUX knob clockwise to the minimum '-' (night/darkness). The sensor should not work after load switches off, provided the lux level in the room is higher than the level set for the minimum.

Note: when testing in daylight, turn LUX knob to '+' (day/bright light) position, otherwise the sensor lamp will not work!

- Adjust the timer setting to allow the load to stay on to the desired time and performance, then replace the outer cover and Fresnel lens and confirm it is functioning correctly.

NOTE:

- Avoid installing it on or near moving objects.
- There shouldn't be any obstruction or moving object in front of the detection window that can affect detection and performance.
- Avoid installing it near air temperature alteration zones such as air conditioners, central heating, air conditioning ducts, etc.
- For safety reasons do not tamper with the unit after installation, contact the installing electrician.

TIPS FOR SOLVING INSTALLATION PROBLEMS:

- ***The load doesn't work:***
  a. Please check the power and load connected is correct.
  b. Check if the load is functioning.
  c. Check if the LUX level that is set, corresponds to the ambient light.
- ***The sensitivity is poor:***
  a. Please check if there are obstructions in front of the detection window impacting the signals.
  b. Please check if the ambient temperature is too high.
  c. Please check if the signal source is in the detection field for the sensor.
  d. Please check if the installation height corresponds to the height shown in the instructions.
- ***The sensor cannot switch the load off automatically:***
  a. Check if there are continual signals in the detection field.
  b. Check if the time delay is set to the longest possible.
  c. Check if the power corresponds to the instructions.
  d. Check if the temperature is changing near the sensor, such as air conditioning or central heating etc.
  e. Check if Manual Override has been initiated.

GSM Electrical (Australia) Pty Ltd, Level 2 142-144 Fullarton Road, Rose Park SA 5067
www.gsme.com.au // Phone: 1300 301 838 // Fax: 1300 301 778

240404