

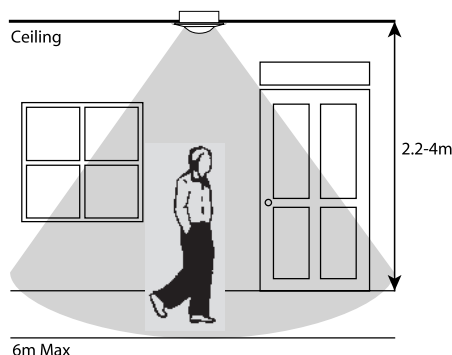
MOVEMENT ACTIVATED RECESSED CEILING SENSOR

Model: P004

WHERE TO FIT YOUR SECURITY SENSOR

To achieve best results the Security Sensor should be mounted in a ceiling, or under eaves of a building, generally used to control an existing light fitting. The Security Sensor should be mounted 2.2 - 4 metres above the area to be scanned (Refer Figure. 1).

Figure 1.Side View



To avoid nuisance triggering, the sensor should not be installed near heat sources such as barbecues, air conditioners, other outside lighting, moving cars and fume vents.

Do not install near reflective surfaces such as smooth white walls, swimming pools, etc.

The Security Sensor scanning specifications (approximately 6 metres at 360°) may vary slightly depending on the mounting height and location.

The detection range of the unit may also alter with temperature change. Before selecting a place to install the Arlec Security Sensor, you should note that movement across the scan area is more effective than movement.

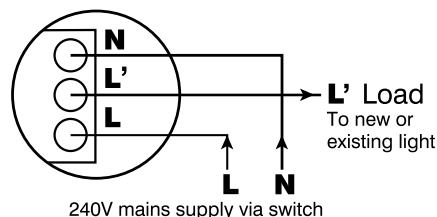
directly toward or away from the sensor (Refer Figure.2A). If movement is made walking directly toward or away from the sensor and not across it, the apparent detection range will be substantially reduced (Refer Figure.2B).

INSTALLING YOUR SECURITY SENSOR

WarNiNg: Must be installed by a licenced electrician or other person authorised by legislation to work on fixed wiring of an electrical installation.

1. Cut a circular hole into the ceiling, to accommodate the sensor body (care should be taken to avoid cutting into concealed electrical wiring).

Figure 3A



2. Remove the clear plastic terminal cover by displacing locating clips with a screwdriver blade and unscrew the front screw Figure 4.
3. Run the mains wiring to the product terminating in accordance with Figure 3A & 3B.
4. Replace the clear plastic terminal cover and secure wires with anchorage clamp.
5. Fold metal fixing springs to vertical position and insert complete wired assembly upward through hole. Fixing springs will then snap downward, retaining sensor in position Figure 5.

View from above

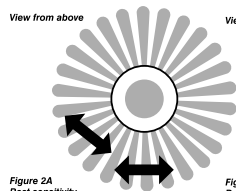


Figure 2A
Best sensitivity

View from above

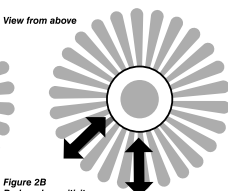


Figure 2B
Reduced sensitivity



Figure 4

NOTE FOR ELECTRICIAN

The security Sensor should be wired to its own switch. Before installation/maintenance, the electrical supply should be isolated. Switching off the wall switch is NOT sufficient isolation to prevent electrical shock.

UNDERSTANDING THE CONTROLS

LUX-LIGHT LEVEL ADJUSTMENT CONTROL

Adjusts the light level at which the Security Sensor operates. Adjust to ☀, the unit will operate day and night. Adjust to 🌙, the unit will operate only at night when movement is detected.

TIME-TIME "ON" ADJUSTMENT

Varies the length of time the light will stay ON from about 10 seconds to 7 minutes. Turn clockwise to increase ON-time – ideal setting is about 10 o'clock position (approximately 2 minutes). Whilst there is movement within range of the unit, the light will remain ON. When no further movement is detected, the light will switch OFF after the pre-set time has elapsed.



Figure 3B

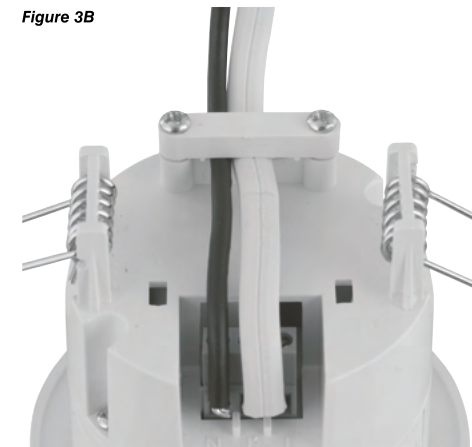
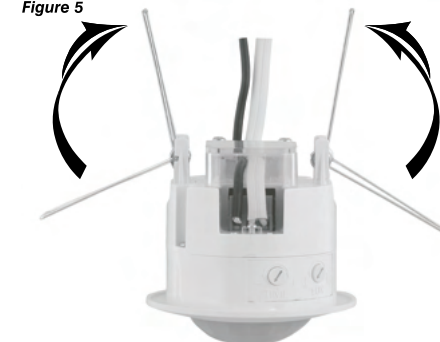


Figure 5



IMPORTANT: Be careful of electrical shock. Always remember that the light may not switch ON during daylight or the light may be in the automatic OFF mode. Never touch live areas unless fuse is removed or circuit breaker is in OFF position at the switchboard main.

SETTING THE CONTROLS

For best results and operation the following steps should be taken:

1. Mount the sensor above the desired area to be scanned.
2. Turn the light level control fully clockwise and time control fully anti-clockwise.
3. Turn the wall switch ON, light will come ON for 10 seconds and then go OFF, provided that there is no movement in the detection area.

4. Have another person move across the centre of the area to be scanned until the unit senses the presence of the moving person, causing the light to switch ON.
5. Adjust time control (TIME ON) to required setting.
6. Turn the light level control knob fully anticlockwise.
7. Your Security Sensor is now ready for use, and will automatically operate when movement is detected at night.
8. The wall switch should remain “ON” for automatic operation.

AUTOMATIC MODE

Turn your wall switch ON. This will put the sensor into ‘automatic’ mode and it will then start sensing after dusk. The light will switch ON and automatically switch OFF after the pre-set time elapses and will then operate automatically whenever heat movement is detected.

MAINTENANCE

To avoid dust build-up and ensure proper functioning of the Arlec Security Sensor wipe the lens lightly with a damp cloth every three months. DO not use solvents or abrasive cleaners on any part of your Security Sensor.

SPECIFICATIONS

Detection range	6 metre at 360° scan (Approx)
Time Adjustment	Min 10± 3 seconds Max 7± 2 minutes
Detection Circuitry	Passive controlled infra red motion sensor
Power Consumption	110-240 volt, 50Hz, 0.1W (static mode) 0.45W (triggered mode)
Rating	1200 watt max Incandescent load, 300 watt max fluorescent load.*

Supply Connection The connecting terminals are suitable for up to 1.5mm² cross-section conductors.

Classification The Sensor is classified as independent lamp control gear and does not rely on a luminaire enclosure for protection against accidental contact with live parts.

**Power factor correction capacitors must be removed from fuorescent and connected at mains input of sensor.*

TROUBLE SHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	SUGGESTED REMEDY
Light does not switch ON when there is movement in the detection area.	1. No main power.	Check all connections, and fuses/switches.
	2. Globe faulty or missing.	Check. Replace.
	3. Wiring incorrect.	Re-check.
	4. Nearby lighting is too bright.	(A) Relocate unit (B) Gradually turn light level control anti-clockwise.
	5. Controls set incorrectly.	Re-set controls.
	6. Sensor positioned in wrong direction.	Re-position sensor.
Light switches ON for no apparent reason.	1. Heat sources such as air con, vents, heater fues, or very cold objects are near sensor.	Re-position sensor.
	2. Animals/birds e.g. possums.	Probably unavoidable but relocating sensor may help.
	3. Interference from ON/OFF switching of electric fans or lights on the same circuit as your Security Sensor. (This problem does not always occur but a faulty switch or a noisy fuorescent light may cause your lights to switch ON.)	Should the false triggering become troublesome consider: (A) Replacing a faulty switch. (B) Replacing noisy fuorescent tubes and/or starters. (C) Connecting the Security Sensor to a separate circuit. (In most cases where one or more of the above suggestions have been carried out, false triggering has been reduced.)
	4. Interference from power surges, mobile phones, CB's, Taxis, etc.	Nil
	5. Heat source, BBQ, etc.	Re-position sensor.
	6. Refection from swimming pool or reflective surface.	Re-position sensor.
Poor sensitivity and range	1. Movement directly to or away from sensor	Re-position sensor.
	2. Higher ambient temperature	Nil. Note: All passive infra red detectors are more sensitive in cold weather than warm weather.
Light remains ON	1. Time is set too long	Reduce time by turning anti-clockwise.
	2. Wiring is incorrect	Re-check wiring.