TROUBLE SHOOTING

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 in associated lights	Check. Replace.
	3. Wiring incorrect.	Re-check.
	4. Nearby lighting is too bright.	(A) Re-direct sensor or relocate unit (B) Gradually turn light level control anti-clockwise.
	5. Controls set incorrectly.	Re-adjust sensor angle.
	6. Sensor positioned in wrong direction.	Re-direct sensor by tilting.
Light switches ON for no apparent reason.	1. Heat sources such as air con, vents, heater flues, or very cold objects are near sensor.	Adjust direction of sensor head from these sources by tilting.
	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 fluorescent light may cause your lights to switch ON.)	Should the false triggering become troublesome consider: (A) Replacing a faulty switch. (B) Replacing noisy fluorescent 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-direct sensor by tilting.
	6. Reflection from swimming pool or reflective surface.	Re-direct sensor by tilting.
Poor sensitivity and range	1. Movement directly to or away from sensor	Re-direct sensor by tilting. (Refer to page 2).
	2. Higher ambient temperature	Nil. Note: All passive infra red detectors are more sensitive in cold weather than warm weather.
Light remains ON	1. Sensor is in automatic override continuous ON mode	Switch sensor OFF for 20 seconds at wall switch, and then return to ON position.
	2. Time is set too long	Reduce time by turning the time knob anti clockwise.
	3. Wiring is incorrect	Re-check wiring.

Should a problem still exist after following all of the above user hints, contact DETA Customer Service Department.

SPECIFICATIONS

Voltage Supply	220-240V a.c; 50Hz
Maximum Load	1200W for Incandescent lamp 300W for Energy-saving Lamp
Detection Range	12 metres (Max)
Time Adjustment	MIN: 10 sec 3 seconds MAX: 15 min 2 minutes
Detection Angle	180˚
Detection Moving Speed	0.6-1.5 m/s
Working Temperature:	-20˚C to +40˚C
Weatherproof Rating:	IP65
Supply Connection:	The connecting terminals are suitable for up to 2.5mm cross-section conductors

WARRANTY

Arlec guarantees this product in accordance with the Australian Consumer Law.

Arlec also warrants to the original first purchaser of this product (you) from a retailer that this product will be free of defects in materials and workmanship for a period of 12 months from the date of purchase; provided the product is not used or installed other than for the purpose, or in a manner not within the scope of the recommendations and limitations, specified by Arlec, is new and not damaged at the time of purchase, has been properly installed by a licensed electrician or contractor who is licensed to install electrical products in the place in which the product was installed and in accordance with Arlecs installation instructions, has been maintained in accordance with the recommendations specified by Arlec, has not been subjected to abuse, misuse, neglect or damage, has not been modified or repaired without the approval of Arlec and has not been used for, or installed in premises which are used for, commercial purposes (Warranty).

If you wish to claim on the Warranty, you must, at your own expense, return the product or that part of the product which you believe is defective in materials and workmanship, and provide proof of original purchase, your name, address and telephone number and a certificate of installation or other document required by law for the installation of electrical products in the place in which the product was installed issued by the licensed electrician or contractor who installed the product, to Arlec at the address below within 12 months from the date of purchase. Please note that the Warranty does not cover removal or re-installation of the product or that part of the product which you believe is defective.

Arlec will assess any claim you may make on the Warranty in the above manner and if, in Arlecs reasonable opinion, the Warranty applies, Arlec will at its own option and expense replace the product (or part of the product) with the same or similar product (or part of the product) or repair the product (or part of the product) and return it to you or refund the price you paid for the product. Arlec will bear its own expenses of doing those things, and you must bear any other expenses of claiming on the Warranty.

The Warranty is in addition to other rights and remedies you may have under a law in relation to the product to which the Warranty relates.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law.
You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

DETA
TRANSFORMING ELECTRICAL

Arlec Australia Pty. Ltd. ACN 009 322 105 ("Arlec") gives the Warranty.
Arlec's telephone number, address and email address are:
Customer Service: 1800 826 859
New Zealand Toll Free: 0800 003 329
Caribbean Park, 36 Lakeview Drive, Scoresby, Victoria, 3139, Australia
P.O. Box 2596, Rowville, Victoria, 3138, Australia
Email: custservice@arlec.com.au

CPIN003853-5

CPIN003853-5

DETA
TRANSFORMING ELECTRICAL

Security SENSOR

12m DETECTION RANGE
180° DETECTION ANGLE
IP65 WEATHER RATING

DET100 & DET101

The DET100/DET101 is a movement activated sensor. It incorporates an automatic PIR sensor that switches on connected lighting devices when it detects any motion in range. It is suitable for lighting loads that are used for security and general purposes in a variety of locations around home or workplace.

Instructions

IMPORTANT! PLEASE READ THESE INSTRUCTIONS CAREFULLY.

WHERE TO FIT YOUR SENSOR

To achieve best results, product should be secured to the wall or under eaves. The height of sensor head should be approximately 1.8-2.5m above the area to be scanned.

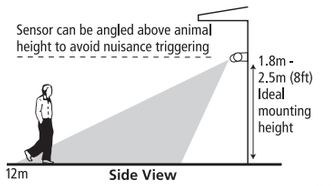

Fig.01

To avoid damage to the unit, do not aim the sensor towards the sun or any reflective or glossy surfaces such as smooth white walls, swimming pools, etc.

To avoid any nuisance triggering, the sensor should be directed away from heat sources such as BBQ, air conditioner, other outside lighting, moving cars and flue vents.

The scanning angle is approximately 180 degree horizontal within 12 metre distance. It might vary slightly upon the mounting height and location. The detection might also alter with temperature change.

Movement across the scan area is more effective than movement directly towards or away from sensor. If the movement is only towards or away to the luminaire and not across, the apparent detection range will be substantially reduced (Fig.02 & Fig.03).

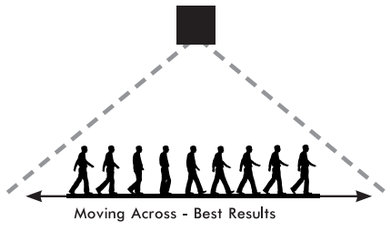

Fig. 02

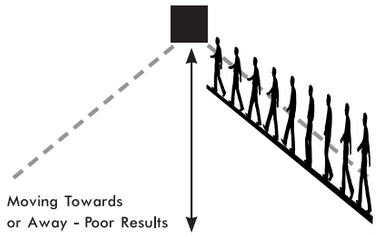

Fig. 03

Avoid locating your sensor in close proximity to fluorescent light fittings or ceiling fans on the same electrical circuit. RFI interference may cause the sensor to function inadvertently.

INSTALLATION

WARNING!
Must be installed by a licensed electrician or other person authorised by legislation to work on fixed wiring of an electrical installation.

1. Loosen the screw and remove the bottom as shown below in Fig.04.

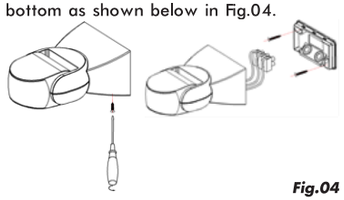

Fig.04

2. Pass the power wire through the hole with gasket in the bottom. Connect the power wire into the terminals according to the connection-wire diagram as shown in Fig.05.

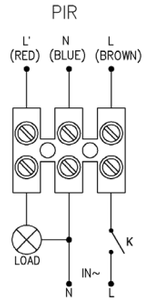

Fig.05

3. Fix the bottom by tightening the screw back to its position. Your security sensor is ready to test.

NOTE FOR ELECTRICIAN
Security sensor must be wired to its own switch. Before installation/maintenance the electrical supply must be isolated at the switchboard by removing the fuse or switching the circuit breaker OFF. Switching off the wall switch is NOT sufficient isolation to prevent electrical shock. The Switched Active (red) is permanently wired to the light fittings. DO NOT attempt to modify the Switched Active circuit

UNDERSTANDING THE CONTROLS

LUX LEVEL ADJUSTMENT CONTROL

Adjusts the light level at which the security sensor operates. Adjusting to the maximum level (clockwise) will make the unit operate day and night. Adjusting towards the minimum level (anti-clockwise) will make the unit operate only at night when movement is detected.

TIME-TIME ON ADJUSTMENT

Adjust the length of time that the light will stay ON. Time varies from about 10 seconds to 15 minutes. Turn clockwise to increase ON-time ideal setting is about 2 oclock position (approximately 3 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.

SETTING THE CONTROLS & TESTING

1. Turn the LUX knob clockwise on the maximum ☼.Turn the TIME knob anti-clockwise on the minimum (10s).

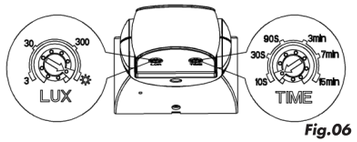

Fig.06

2. Turn the wall switch ON; the sensor and its connected light will remain off in the beginning. After a warm up period of 30 sec the sensor will start working as soon as it receives any signal. The sensor will stop working within 10 sec3 sec if it doesnt receive any further signals. As a result the light will also be turned OFF.
3. Turn LUX knob anti-clockwise to the minimum (3). If the ambient light is more than 3 LUX, the sensor would not work and the light will stop working too. If the ambient light is less than 3 LUX (darkness), the sensor will work.

NOTE
When testing in daylight, please turn LUX knob to maximum position ☼, otherwise the sensor will not work.

Built in High sensitivity PIR (Passive Infra red) is incorporated with multi-cell technology and Fresnel lens which divides basic sensor detection range into multiple separate segments. The sensor scans automatically for movement between zones. It can more easily detect motion across than motion directly towards or away from sensor.

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.

MANUAL OPERATION (Automatic Override)

To override the automatic mode, the sensor must be switched ON in the automatic mode. Now switch wall switch OFF and back ON within 3 seconds. Your Security Sensor will now hold your light ON continuously just likes a normal light. This override function can be selected only during night (ambient <100 lux). To return your sensor to the automatic mode, switch your wall switch OFF for at least 20 seconds, then switch it ON again. To switch your security sensor and lights OFF completely, switch your wall switch OFF.

Note: The manual override function will be bypassed and will go back to automatic mode if the ambient is bright.

MAINTENANCE

To avoid dust build-up and maintain proper performance, sensor lens should be cleaned lightly with a damp cloth every 3 to 6 months. DO not use solvents or abrasive cleaners on any part of your Security Sensor.

IMPORTANT NOTE

IP65 rating for this sensor is achieved after correct installation. Additional sealing might be required for irregular surfaces.

This product contains no serviceable part and no attempt should be made to repair or alter the product. If the product is faulty, it should be discarded.