## SWAN QUAD

PIR MOTION DETECTOR With PET IMMUNITY up to 25 kg

#### PRODUCT FEATURES

# The SWAN QUAD detector uses a special designed optical Lens with unique Quad (Four element) PIR Sensor and new ASIC based electronics optimized to eliminate false alarms, caused by small animals and Pets.

The SWAN QUAD provides unprecedented levels of immunity against visible light.

The Detector offers an exceptional level of detection capability and stability for every security installation.

The SWAN QUAD is supplied with a Wide Angle lens.

- Quad Linear Imaging Technology for sharp analysis of body dimensions and differentiation from background and animals.
- ASIC based electronics.
- Immunity to animals up to 25kg.
- 18m Detection Range with Wide Angle Lens.
- Temperature compensation.
- Compact Design for Residential Installation.
- Variable pulse width adjustment.
- Sensitivity adjustment.
- Environmental immunity.
- Height installation calibration free (1.8m – 2.4m).
- LED Remote function.

#### SELECT MOUNTING LOCATION

Choose a location most likely to intercept an intruder. (Our recommendation is a corner installation). See detection pattern fig.3. The quad-element high quality sensor detects motion crossing the beam; it is slightly less sensitive detecting motion toward the detector. The SWAN quad performs best when provided with a constant and stable environment and background. AVOID THE FOLLOWING LOCATIONS

- Facing direct sunlight.
- Facing areas that may change temperature rapidly.
- Areas where there are air ducts or substantial airflows.

#### WIRE SIZE REQUIREMENTS

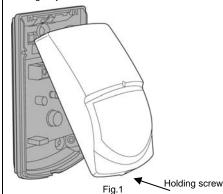
Use #22 AWG (0.5 mm) or wires with a larger diameter. Use the following table to determine the required wire gauge (diameter) depending on the length of wire between the detector and the control panel.

Wire Length Wire Diameter			300 .75	400 1.0	800 1.5	
Wire Length	ft.	800	1200	2000	3400	
Wire Gauge	#	22	20	18	16	

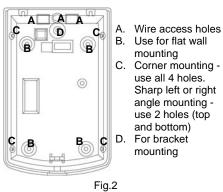
#### **DETECTOR INSTALLATION**

The detector can either be wall or corner mounted. If ceiling or special wall mounting is required, use the optional bracket base. Refer to bracket description. (See fig. 6).

 To remove the front cover, unscrew the holding screw and gently raise the front cover.



- 2. To remove the PC board, carefully unscrew the
- holding screw located on the PC board.
- 3. Break out the desired holes for proper installation.



4. The circular and rectangular indentations at the bottom base are the knockout holes for wire entry. You may also use mounting holes that are not in use for running the wiring into the detector. (For Bracket option - lead wire through the bracket)

- 5. Mount the detector base to the wall, corner or ceiling (For bracket installation option see fig. 6).
- Reinstall the PC board by fully tightening the holding screw. Connect wire to terminal block.
- 7. Replace the cover by inserting it back in the appropriate closing pins and screw in the holding screw

#### **DETECTOR CONNECTION**



#### Terminal 1 - Marked " - " (GND)

Connect to the negative Voltage Supply or ground of the control panel.

#### Terminal 2 - Marked " + " (+12V)

Connect to a positive Voltage Supply of 8.2 -16Vdc source (usually from the alarm control unit)

Terminals 3 & 6 - Marked " EOL " - End of line option.

#### Terminals 4 & 5 - Marked "TAMPER "

If a Tamper function is required connect these terminals to a 24-hour normally closed protective zone in the control unit. If the front cover of the detector is opened, an immediate alarm signal will be sent to the control unit.

#### Terminals 7 & 8 - Marked " RELAY "

These are the output relay contacts of the detector. Connect to a normally closed zone in the control panel.

#### **TESTING THE DETECTOR**

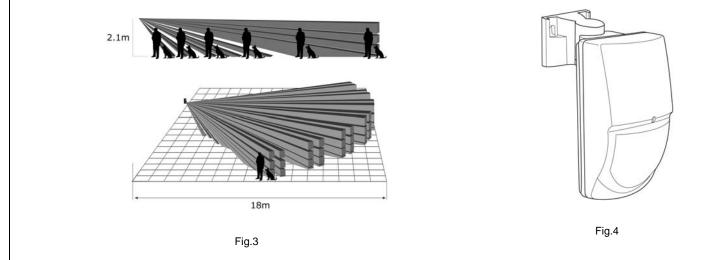
Wait one minute after applying 12 Vdc power for warm up time. Conduct testing with the protected area cleared of all people.

#### Walk test

- 1. Remove front cover.
- 2. Set LED to ON position.
- 3. Reassemble the front cover.
- Start walking slowly across the detection zone.
  Observe that the LED lights whenever motion is detected.
- Allow 5 sec. between each test for the detector to stabilize.
- 7. After the walk test is completed, you can set the LED to OFF position.

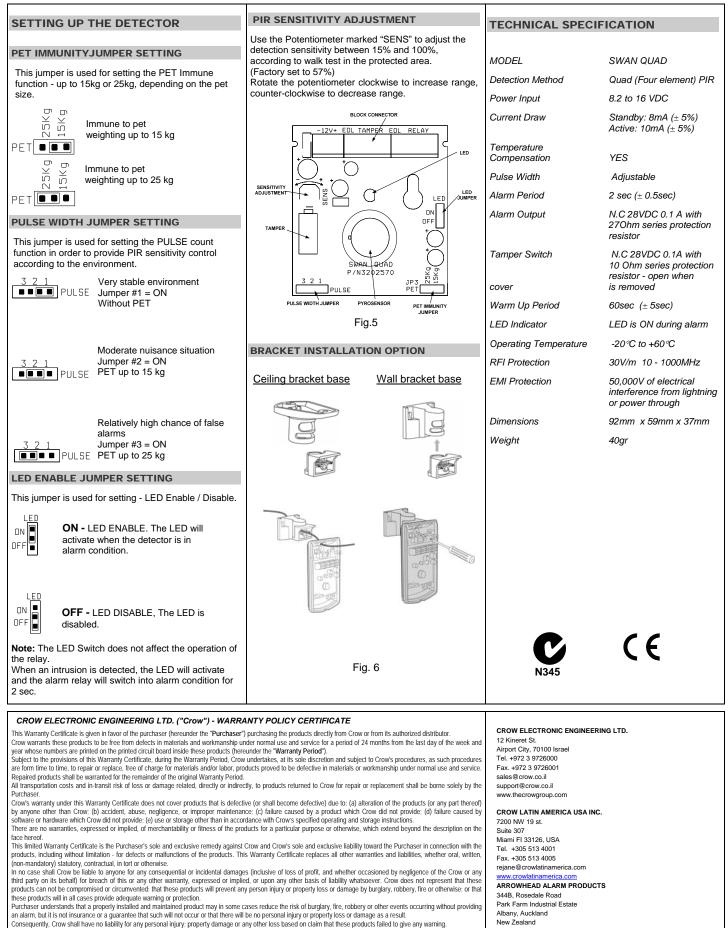
#### NOTE:

Walk tests should be conducted, at least once a year, to confirm proper operation and coverage of the detector.



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P/N 7101570 REV. D Y.S - A.Y. These instructions supersede all previous issues in circulation prior to December 2011.

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