

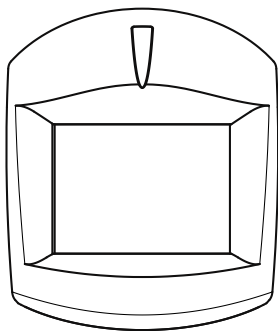
INSTALLATION NOTES



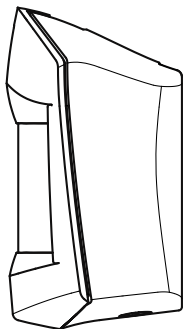
QUANTUM™

PART NUMBER: 100-050

MODEL: Quantum EX PIR



- General purpose Passive Infra-Red motion sensor.
- 12m x 12m wide angle coverage
- High R.F. and E.S.D. immunity
- High white light immunity
- Selectable Pulse Count
- Low current draw
- 9–15V DC operation



REV 1

MOUNTING LOCATION

This Passive Infra Red detector, (PIR), is designed for indoor use only and can be installed in wall or corner mount locations.

Always ensure the detector has a clear line of sight of the area to be protected as infra-red energy does not pass through solid objects, (including glass).

Mount the detector in a location where an intruder is most likely to walk *across* the coverage pattern. Corner mounting usually gives the best coverage.

As with all PIR detectors, it is advisable to choose mounting positions which avoid direct sunlight, heating or cooling sources and avoid areas of high humidity which may cause condensation on the lens.

MOUNTING HEIGHT

The recommended mounting height for optimum performance is between 2.1 and 2.4 metres.

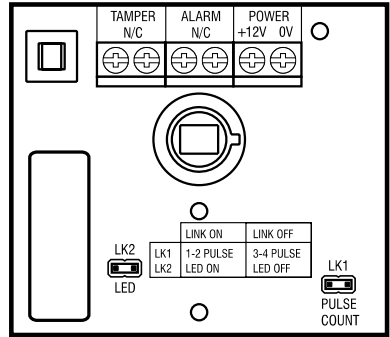
If required, the optional 100-243 Quantum Bracket can be used to swivel the detector for best coverage if mounted above or below the recommended heights .

INSTALLATION & TESTING

- 1 Open the detector's front housing by unclipping the bottom of the lid and swing it open and away from the back housing.
- 2 Remove the circuit board from the back-housing.
- 3 The base can be corner or flat surface mounted. Drill holes as required for mounting and mount the base securely filling any gaps or holes with a flexible sealant such as silicone.
- 4 Replace the board.
- 5 Set the PULSE COUNT link to suit your application (see Program Links).
- 6 Replace the cover, (reverse the removal procedure).
- 7 After connecting power at the control panel wait approximately 30 seconds for the detector to read the environment.
- 8 Walk test the coverage by walking slowly across the protected area. The red alarm light should indicate detection at a maximum of 3 to 4 walking steps at a distance of 10m from the detector.
Stop and wait for the red alarm light to turn off before continuing walk testing.

WIRING

1. Connect a regulated DC power source to the terminals marked +12V and 0V observing correct polarity.
2. Connect the ALARM terminals to a zone on your control panel using an End Of Line Resistor as shown in your control panel's installation manual.



QUANTUM EX circuit board

PROGRAM LINKS

PULSE

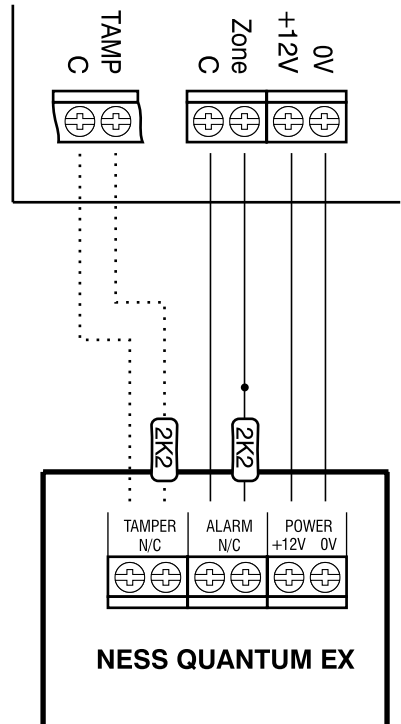
The PULSE COUNT link selects either of two Pulse Count positions.

- Pulse Count Link ON: 1–2 Pulses or walk steps should cause an alarm.
- Pulse Count Link OFF: 3–4 Pulses or walk steps should cause an alarm.

LED

Remove this link to disable the walk test LED if required.

NESS CONTROL PANEL



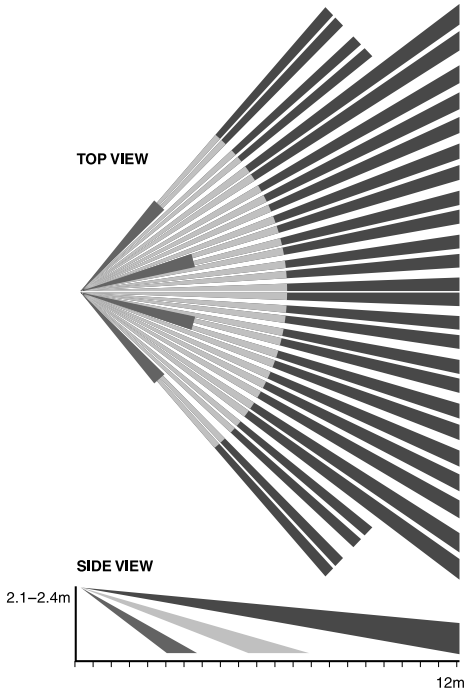
..... Optional Tamper wiring

QUANTUM EX wiring to a control panel.

COVERAGE

Coverage is 12m x 12m @ 110° when mounted at a height of between 2.1 and 2.4 metres.

If required, the optional Quantum Bracket can be used to swivel the detector for best coverage to suit the area.



Optional accessory 100-243 Quantum Mounting Bracket for wall or ceiling mounting. Provides vertical and horizontal angle adjustment to provide best coverage if mounting detectors above or below recommended heights.

SPECIFICATIONS

DIMENSIONS	90(h) x 76(w) x 49(d)mm
MOUNTING HEIGHT	2.1 to 2.4m for best coverage. Use the optional 100-243 Quantum Bracket at other heights.
COVERAGE	12m x 12m @ 110°
PULSE COUNT	Selectable 1-2 or 3-4.
SENSOR	Dual element pyroelectric.
VISUAL DISPLAY	Red alarm LED.
ALARM OUTPUT	Normally Closed relay, dry contacts. Max. 0.5A@24V.
ALARM PERIOD	5 seconds.
TAMPER OUTPUT	Normally Closed dry contacts.
WARM UP PERIOD	30 seconds.
OPERATING VOLTAGE	9-15V DC.
CURRENT DRAW	15mA
RF IMMUNITY	15V/m 10-1000MHz



NESS SECURITY PRODUCTS
Australian Communications Authority
ELECTROMAGNETIC COMPATIBILITY COMP

QUANTUM EX PIR
INSTALLATION NOTES
Revision 1, February 2005

Document part number: 890-008
For products: 100-050 Quantum EX PIR

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Specifications may change without notice.