



CEILING MOUNT PIR DETECTOR

PIR-9236

OPERATING INSTRUCTIONS

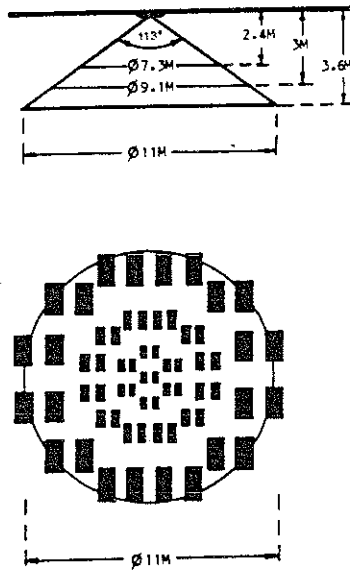


INTRODUCTION

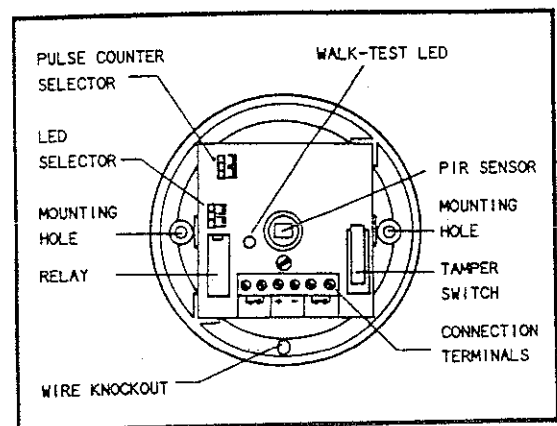
PIR-9236 ceiling mount passive infrared intrusion detector is designed for the applications in the modern residential and commercial security systems. It gives 36 feet diameter conical protection pattern when mounted on a 12 feet ceiling.

The PIR-9236 which employs low noise dual element pyroelectric sensor and pulse counting detection circuit provides substantial immunity to false alarms caused by environmental disturbances.

DETECTION PATTERN



P.C. BOARD & MOUNTING BASE



MOUNTING LOCATION

- * The detector is mounted on the stable ceiling. The maximum installation height is 12 feet (3.6m).
- * The detector should be mounted in areas that do not have openings constantly exposed to the outside environment.
- * Select the mounting location so that the expected motion of an intruder will cross the beam of the detection pattern.
- * Do not locate detector where hot or cold moving air blows directly onto the unit.
- * Avoid aiming the detector toward heating or air conditioning vents or ducts, exterior metal walls, exterior windows or curtains covering windows, refrigerator or freezer grills or other surfaces that may change temperature rapidly.
- * Prevent putting large objects in front of the detector which will cause significant changes in the area or volume protected.

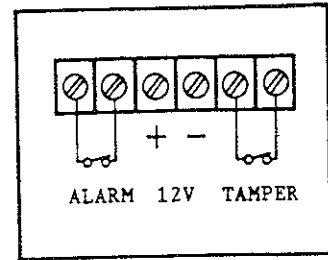
MOUNTING

- * Open the cover by gently inserting a small screw driver in the slot at the bottom of the unit, between the front cover and the base, lower the screw driver to release the cover from the base.
- * Mount the base at the location selected for optimum coverage. Use the two mounting holes at the back of the base fasten the unit firmly to the ceiling.
- * Use the wire knockout at the back of the base for running connection wires.

WIRING

Connect wires to the terminal block in the following order:

1. Connect TAMPER terminals to a normally closed (N.C.) 24-hour protection zone of the control panel. Tamper contact will open when cover is removed.
2. Connect ALARM terminals to a normally closed (N.C.) burglar protection zone of the control panel. Relay contact will open when a motion is detected or during power loss.
3. Connect the 12V DC (+) and (-) terminals to a power source 8 to 16 volt DC and observe for correct polarity. It is advisable that the power supply be battery backed-up.



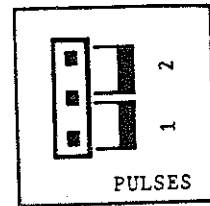
PULSE COUNTER SELECTOR

The detector is selectable for 1 or 2 pulses counting operation.

- * Put the pulse jumper on "1" for single pulse counting operation.
- * Put the pulse jumper on "2" for 2 pulses counting operation.

2 pulses counting operation mode provides further improvement to immunity from false alarm.

NOTE: Factory pre-set jumper on 2 pulses counting operation.



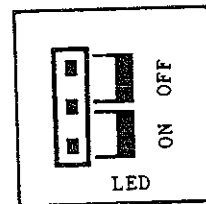
WALK TESTING

1. Apply 12V DC power and allow 3-5 minutes for the detector to warm up and stabilize before testing.
2. Walk into the protected area at a rate of 1 step per second across the protection beams and observe the LED. The LED lights up whenever you enter or exit a protection beam if the detector was set to 1 pulse counting operation.

You may require to walk 2 steps for first triggering and lighting up the LED if the detector was set to 2 pulses operation.

LED SELECTOR

After the walk testing, the LED can be disabled to prevent unauthorized persons from tracing the coverage pattern. To disable the LED, remove the LED jumper from the "ON" position and put it on the "OFF" position.



SPECIFICATIONS

Coverage	: 360° 36 feet (11m) diameter conical pattern when installed on a 12 ft ceiling.
Mounting Height	: 12 feet (3.6m) maximum.
Operating Voltage	: 8 - 16 V DC.
Current Drain	: 15 mA typical.
Alarm Output	: Normally Closed (fail safe) relay dry contact, Rating - 0.5A/24VDC, 18 ohm resistor in series with contact.
Alarm Period	: 2 - 3 seconds with walk test LED indication.
Tamper Output	: Normally Closed micro-switch dry contact. Rating - 0.5A/24VDC.
Pulse Counter	: "1" or "2" pulses counting selectable, alternate polarity signal processing.
LED Selector	: "ON" or "OFF" selectable.

Specifications are subject to change for modification without notice



AEI ADVANCED ELECTRONICS INDUSTRY LTD.