

CROW SCIENTIFIC RESEARCH™

SRP-PET 4

**PASSIVE INFRARED QUAD
INTRUSION DETECTOR
WITH PET IMMUNITY
UP TO 35 kg (77LB)**



N345

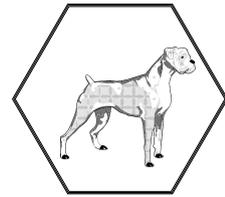


ELECTRONIC ENGINEERING LTD.

INSTALLATION INSTRUCTIONS
P/N 7101050 Rev. H A.Y.

SRP-PET 4 FEATURES

- * Immunity to animals up to 35 kg (77 LB).
- * Quad element pyrosensor.
- * Hard type full pattern spherical lens.
- * Pulse width adjustment.
- * Sensitivity adjustment.
- * Automatic temperature compensation.
- * Low current consumption.
- * Height installation (calibration free) from 1.8m to 2.4m.
- * Environmental immunity.
- * High - tech design.



The SRP - PET 4 provides immunity to 35kg (77LB) pet active below 1m (3 ft). For better immunity, avoid installation in area reached by pet.

SELECTING MOUNTING LOCATION

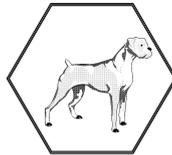
Choose a location most likely to intercept an intruder.

The quad-element high quality sensor detects motion across the beam. It is slightly less sensitive when detecting motion toward the detector.

The SRP-PET 4 performs best when provided with a constant and stable environment.

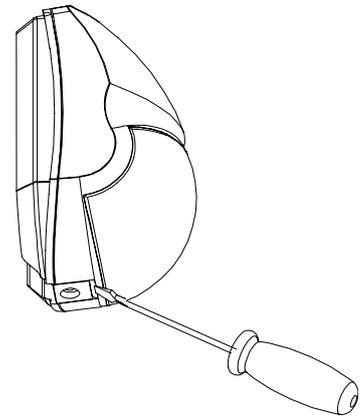
AVOID THE FOLLOWING LOCATIONS

- Facing direct sunlight.
- Facing areas subject to rapid quick temperature changes.
- Areas with air ducts or substantial air flows.

**MOUNTING THE DETECTOR**

For PET immunity mount flat on the wall or in the corner.

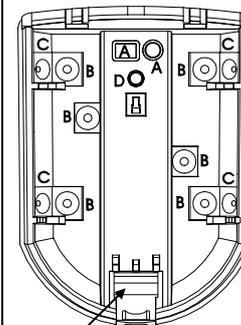
It is recommended to mount the detector between 2.1m (7ft) and 2.4m (8ft) for optimal coverage, and pet immunity.

FIG. 1 - REMOVAL OF FRONT COVER

1. To remove the front cover, insert a flat screwdriver in the slot between the front and the bottom, above the holding screw hole and push gently, until the front cover is disengaged and the opening click is heard (Fig 1.)
2. To remove the PC board, carefully unscrew the holding screw located on the PC board.
3. Break out the desired holes for proper wiring as per fig 2.
4. Insert the wire through the wire access hole, and mount the detector base to the wall, corner or ceiling with the necessary number of screws and the suitable bracket.

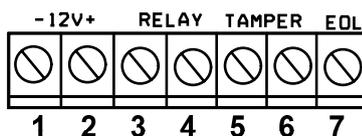
5. Reinstall the PC board, set it as low as possible - till stopper (see fig.2). Tight the holding screw.

6. Access for wiring connections is very easy via the terminal block located on the PCB. See fig 3.
7. Replace the cover by inserting it back in the appropriate closing pin until the closing click is heard.

FIG. 2 - KNOCKOUT HOLES

- A. WIRE ACCESS HOLES (2)
- B. USE FOR FLAT WALL MOUNTING (2)
- C. CORNER MOUNTING - USE ALL 4 HOLES. SHARP LEFT OR RIGHT ANGLE MOUNTING - USE 2 HOLES (TOP AND BOTTOM)

Stopper pins for PCB

FIG. 3 - TERMINAL BLOCK

NOTES for U.L. referring countries
Connect the SRP-PET 4 to a "U.L." listed burglar alarm Power Supply or control panel capable of providing standby power for at least four (4) hours.
Refer to national electric code, NFPA-70 for wiring methods.

TERMINAL BLOCK CONNECTIONS

Run the cable through the cable entry hole and connect the wires in accordance with the following instructions:

Terminal 1 - Marked - (gnd)
Connect to ground of the control panel.

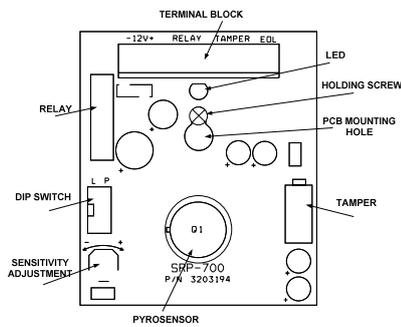
Terminal 2 - Marked + (+12V)
Connect to a positive Voltage output of 7.8-16Vdc source (usually from the alarm control unit).

Terminals 3 & 4 - Marked RELAY
These are the output relay contacts of the detector. Connect to a normally closed zone in the control panel.

Terminals 5 & 6 - Marked TAMPER
If a Tamper function is required connect these terminals to a 24hour 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.

Terminal 7 - Marked EOL
End of line option.

FIG. 4 - PCB LAYOUT



The SRP-PET 4 production batch can be identified by the 4 digits printed on the terminal strip side of the PC board.

LENSES-INTERCHANGEABLE HARD TYPE SPHERICAL LENSES PATTERN

COVERAGE	WIDE ANGLE
	105°
	18m x 10m

TOTAL DETECTION ZONES	52°
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18 long range, 16 intermediate, 10 short range, nearest range, 2 creep zones.

REPLACING THE LENS

- Remove the front cover by inserting a flat screw driver in the appropriate slot.
- Using a small flat screwdriver, press on left or right side of the installed lens which will then pop out from its side right and left holding pins.
- Select the desired lens and hold it while making sure its upper holding pin is pointed upwards.
- Snap the lens to its place by pressing again from outside of the front cover until a click is heard, confirming the new lens is tightly inserted. See fig 6.
- Replace front cover.

TECHNICAL SPECIFICATIONS

Power Input	7.8 - 16 Vdc
Current Draw	Active / Standby: 9 mA
Detection Method	Quad element PIR
Sensitivity	Δ2°C (Δ3.6°F) at 0.6 m/sec (2 ft/sec)
Detection Speed	0.5 - 1.5 m/sec (1.5 - 5 ft/sec)
Bi Directional Temperature Pulse Count	YES 1,2-automatic switch from 2 to 3 depending on speed spectrum analysis
Alarm Period	1.6 sec
Alarm Output	N.C 28VDC 0.1 A with 10 Ohm series protection resistor
Tamper Switch	N.C 28VDC 0.1A with 10 Ohm series protection resistor - open when cover is removed
Warm Up Period	30 sec
LED Indicator	LED is ON during alarm
Operating Temperature	-20°C to +50°C (-4°F to +122°F)
RFI Protection	≥ 30V/m 10 - 1000MHz
EMI Protection	50,000V of electrical interference from lightning or power through reflected light
Visible Light Protection	stable against halogen light 2.4m(8ft) or reflected light
Dimensions	106mm x 68.5mm x 57mm (4.2"x2.7"x2.3")
Weight	90 gr. (3.2 oz)

Crow reserves the rights to change specifications without prior notice



DIP SWITCH SETTING

PULSE COUNT - Dip Switch marked 2 (Fig. 4)
Provides control for normal or high risk operating environments.

Position ON (up)

This setting is for a stable environment without air drafts.

Position OFF (down) - AUTOMATIC PULSE COUNT

The SRP-PET 4 will automatically select the appropriate pulse count level (2 or 3) according to the strength of the incoming signals.

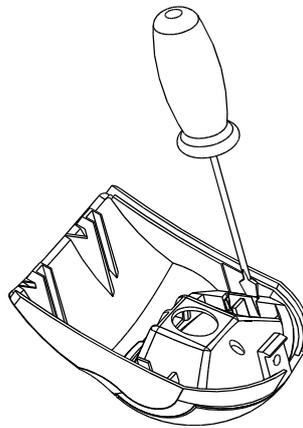
This setting is for operation within a harsh environment.

When an intrusion is detected, the led will light on and the alarm relay contacts will transfer condition for 1.6 sec.

NOTE:

DETECTION RANGES ARE SPECIFIED AT 20° C (68° F) AMBIENT TEMPERATURE.

FIG. 6 REPLACING THE LENS



CROW ELECTRONIC ENGINEERING LTD. ("Crow") - WARRANTY POLICY CERTIFICATE

This Warranty Certificate is given in favor of the purchaser (hereunder the "Purchaser") purchasing the products directly from Crow or from its authorized distributor.
Crow warrants these products to be free from defects in materials and workmanship under normal use and service for a period of 24 months from the last day of the week and year whose numbers are printed on the printed circuit board inside these products (hereunder the "Warranty Period").
Subject to the provisions of this Warranty Certificate, during the Warranty Period, Crow undertakes, at its sole discretion and subject to Crow's procedures, as such procedures are from time to time, to repair or replace, free of charge for materials and/or labor, products proved to be defective in materials or workmanship under normal use and service. Repaired products shall be warranted for the remainder of the original Warranty Period.
All transportation costs and in-transit risk of loss or damage related, directly or indirectly, to products returned to Crow for repair or replacement shall be borne solely by the Purchaser.
Crow's warranty under this Warranty Certificate does not cover products that is defective (or shall become defective) due to: (a) alteration of the products (or any part thereof) by anyone other than Crow; (b) accident, abuse, negligence, or improper maintenance; (c) failure caused by a product which Crow did not provide; (d) failure caused by software or hardware which Crow did not provide; (e) use or storage other than in accordance with Crow's specified operating and storage instructions.
There are no warranties, expressed or implied, of merchantability or fitness of the products for a particular purpose or otherwise, which extend beyond the description on the face hereof.
This limited Warranty Certificate is the Purchaser's sole and exclusive remedy against Crow and Crow's sole and exclusive liability toward the Purchaser in connection with the products, including without limitation - for defects or malfunctions of the products. This Warranty Certificate replaces all other warranties and liabilities, whether oral, written, (non-mandatory) statutory, contractual, in tort or otherwise.
In no case shall Crow be liable to anyone for any consequential or incidental damages (inclusive of loss of profit, and whether occasioned by negligence of the Crow or any third party on its behalf) for breach of this or any other warranty, expressed or implied, or upon any other basis of liability whatsoever. Crow does not represent that these products can not be compromised or circumvented; that these products will prevent any person injury or property loss or damage by burglary, robbery, fire or otherwise; or that these products will in all cases provide adequate warning or protection.
Purchaser understands that a property installed and maintained product may in some cases reduce the risk of burglary, fire, robbery or other events occurring without providing an alarm, but it is not insurance or a guarantee that such will not occur or that there will be no personal injury, property damage or loss or damage as a result.
Consequently, Crow shall have no liability for any personal injury, property damage or any other loss based on claim that these products failed to give any warning.
If Crow is held liable, whether directly or indirectly, for any loss or damage with regards to these products, regardless of cause or origin, Crow's maximum liability shall not in any case exceed the purchase price of these products, which shall be the complete and exclusive remedy against Crow.

LED ENABLE/DISABLE Dip Switch - marked 1

Position ON (up) - LED ENABLE - The led will light when the SRP-PET 4 is in alarm condition.
Position OFF (down) - LED DISABLE - The led is disabled.

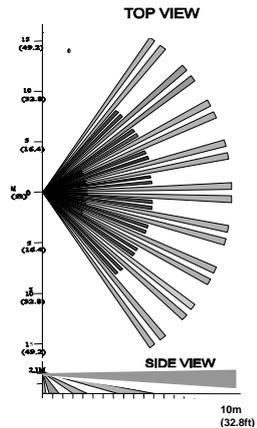
Note: the state of the dipswitch -1 does not affect the operation of the relay.

SENSITIVITY ADJUSTMENT

Use this potentiometer (see fig. 4) to adjust the detection sensitivity between 68% and 100% (factory set to 84%). Rotate the potentiometer clockwise to increase sensitivity. Rotate the potentiometer counter-clockwise to decrease sensitivity.

IMPORTANT - After adjusting the sensitivity perform a walk test to verify optimum correct sensitivity in the protected area.

FIG. 5 - WIDE ANGLE LENS



TEST PROCEDURES.

WAIT ONE MINUTE WARM-UP TIME AFTER APPLYING 12 VDC POWER. CONDUCT TESTING WITH THE PROTECTED AREA CLEARED OF ALL PEOPLE.

Walk test

- Remove front cover.
The pulse switch must be in ON position. The LED must be enabled.
- Replace the front cover.
- Start walking slowly across the detection zone.
- Observe that the detector's LED lights whenever motion is detected.
- After the walk test is completed, the LED may be disabled.
- Allow 5 sec. between each test for the detector to stabilize.

NOTE:

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

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These instructions supersede all previous issues in circulation prior to February 2012.