

DS940P/DS940PT

Passive Infrared Detector

With Pet Immunity

Installation Instructions

1.0 Description

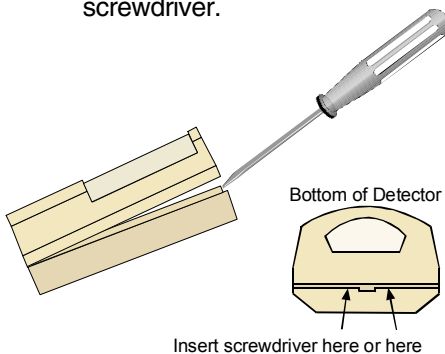
The DS940P is a high performance Passive Infrared (PIR) Motion Sensor which uses advanced signal processing to provide outstanding catch performance and unsurpassed false alarm immunity. It is designed to detect movement in the interior of a structure by sensing the Infrared energy emitted from the human body as it moves across the sensor's field of view. When motion is detected the unit sends an alarm signal to the Control Panel. With Detection Systems' Pet Friendly® pet immunity, the DS940P will not detect a dog up to 30 pounds (13 kilos), two cats, or numerous rodents. This pet immunity feature has not been tested by Underwriters Laboratories.

2.0 Specifications

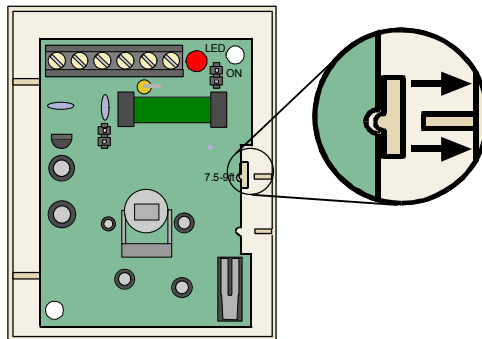
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| <ul style="list-style-type: none"> • Input Power: 9-15 volts DC • Current Draw: 17 mA @ 12 VDC (standby and maximum) • Standby Power: No internal standby battery. <i>For UL Listed Product Installations, 4 hours (68 mAh) standby power must be provided.</i> • Relay Form "A" Normally Closed (NC) contact set rated for 125 mA@ 28 volts maximum DC, 18 volts maximum AC for resistive loads. • Tamper: (DS940PT only) Normally Closed (with cover on). Contacts rated at 28 VDC, 125mA max. Connect tamper circuit to a 24hr. protection circuit. | <ul style="list-style-type: none"> • Temperature: -20° to +120°F (-29° to +49°C). <i>For UL Listed Product Installations, the temperature range is +32° to +120°F (0° to +49°C).</i> • Humidity: 0 - 85% non-condensing. • Dimensions: 3 in. H x 2.25 in. W x 1.5 in. D (7.6 cm x 5.7 cm x 3.8 cm) • Options: B335 Swivel Mounting Bracket. Use of this bracket may decrease the PIR range and increase dead zones. • Patents: This product is covered by one or more of the following U.S. patents: #4764755, #5670943. |
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3.0 Installation

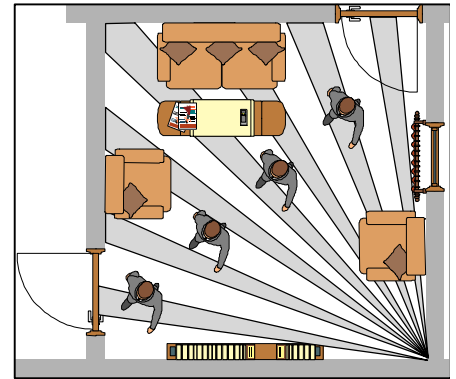
- 3.1 Remove the cover** using a small flat-blade screwdriver.



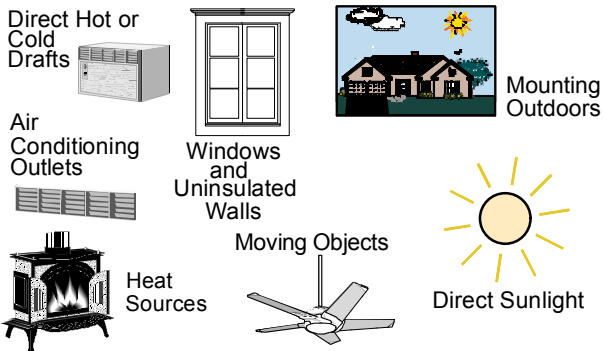
- 3.2 Press the vertical adjust tab** toward the side of the case and lift out the board.



- 3.3 Select a mounting location.** Mount the sensor where an intruder will most likely cross through the coverage pattern.

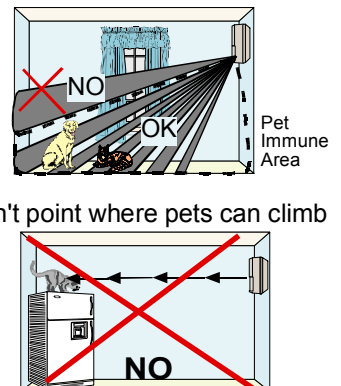
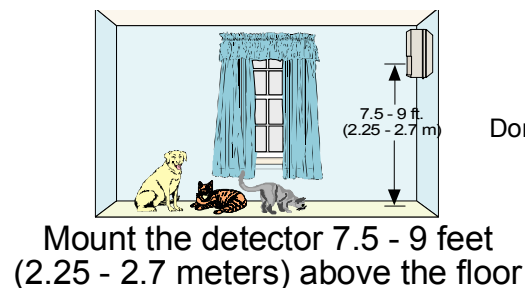


3.4 Avoid.



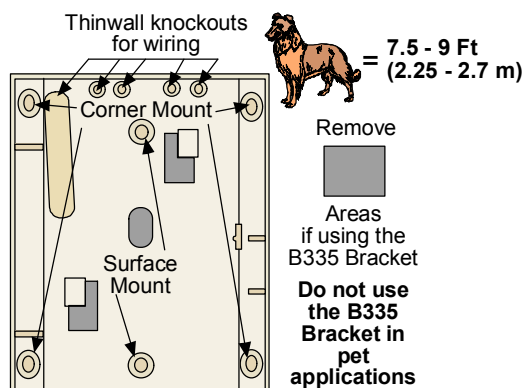
3.5 Observe the pet immunity mounting recommendations.

Note: The upper areas are not pet immune.



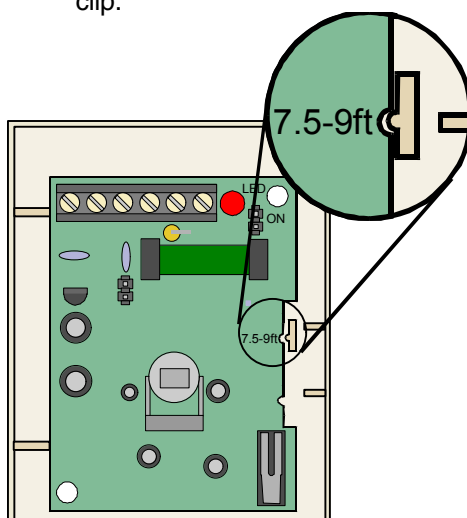
3.6 Mount the detector.

Note: To avoid possible circuit board damage, use **only** the mounting hardware provided in the appropriate punch-out mounting holes.



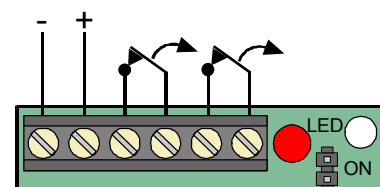
! Don't overtighten the mounting screws!
Cover may not attach correctly !

3.7 Snap the board into the clip so that the notch aligns with the tab on the clip.



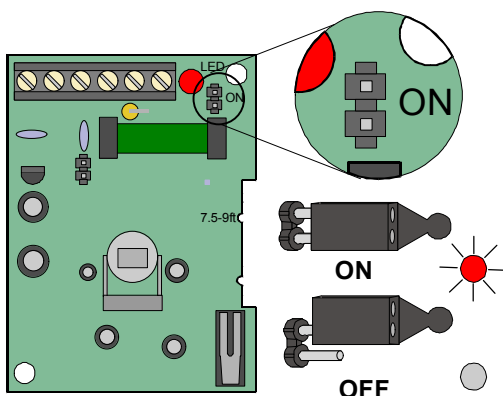
3.8 Wire the Detector.

(DS940PT only)
9-15 Alarm Tamper VDC Contacts

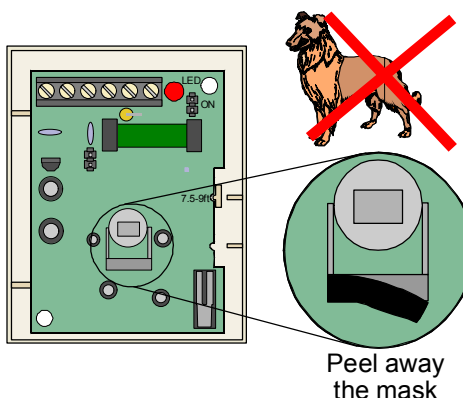


Normally Closed (NC) contacts

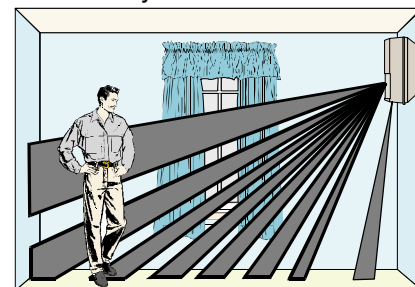
3.9 Select LED Operation



3.10 In non-pet applications only, if look-down is desired, peel away the look-down masks. Do not remove the clear plastic lens.



4.0 Walk Test. Perform the Walk Test at the time of installation and annually thereafter.

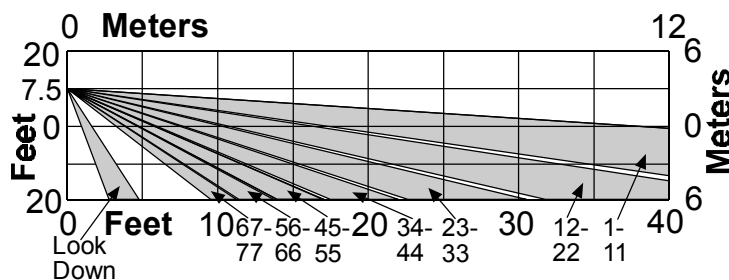
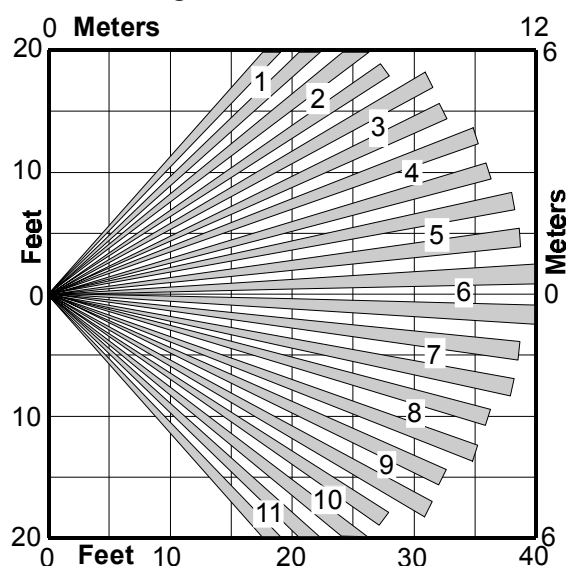


This detector contains an environmental stabilization circuit which requires approximately 2 minutes after initial power-up to warm up. During this time the detector will not respond to any movement.



Please wait 2 minutes after initial power-up to perform any walk tests.

5.0 Coverage Patterns



1	2	3	4	5	6	7	8	9	10	11
12	23	34	45	56	67	77	66	55	44	33
12	23	34	45	56	67	77	66	55	44	33
12	23	34	45	56	67	77	66	55	44	33
12	23	34	45	56	67	77	66	55	44	33

DS940P Lens
(inside view)

Although generally not required, if masking is desired, the lens diagram shows the appropriate areas to be masked (see shaded area on the DS940P lens diagram). Use an opaque material (such as, electrical tape) to mask the desired areas.