DS940QP
Passive Infrared Detector with Pet Immunity
Installation Instructions

1.0 Description

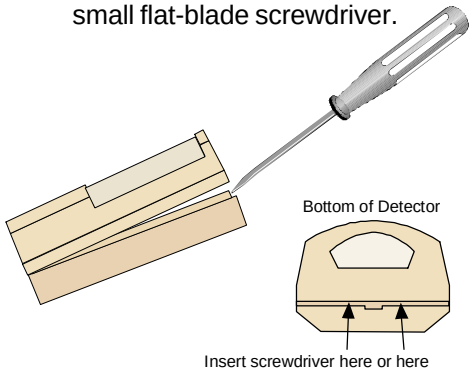
The DS940QP is a high performance, wall-mount, Quad Passive Infrared (PIR) Motion Detector which uses advanced signal processing to provide outstanding catch performance and unsurpassed false alarm immunity. It is designed to detect movement in the interior of a structure by sensing the Infrared energy emitted from the human body as it moves across the Detector's field of view. The Detector employs two individual sensors which operate like two PIRs in one. When motion is detected by both sensors, the Detector sends an alarm signal to the Control Panel. With Detection Systems' Pet Friendly® pet immunity, the DS940QP will not alarm for a dog up to 80 lbs. (36 kg), five cats, or numerous rodents. This Pet Immunity feature has not been tested by Underwriters Laboratories.

2.0 Specifications

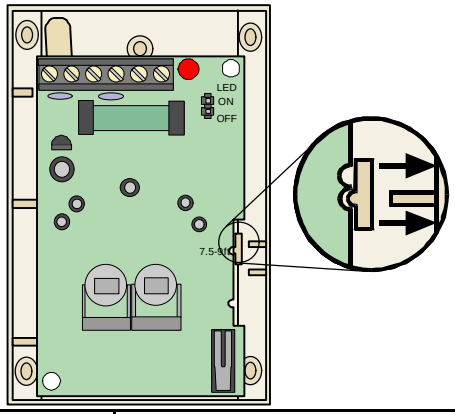
- **Input Power:** 9-15 VDC
- **Current Draw:** 12 mA @ 12 VDC standby and alarm
- **Standby Power:** No internal standby battery. *For UL Listed Product Installations, 4 hours (48 mAh) standby power must be provided.*
- **Relay** Form "A" Normally Closed (NC) contact set rated for 125 mA@ 28 V maximum DC or 18 V maximum AC for resistive loads.
- **Tamper:** Normally Closed (with cover on). Contacts rated at 28 VDC, 125 mA max. Connect tamper circuit to a 24 hour protection unit.
- **Temperature:** -20°F to +120°F (-29°C to +49°C). *For UL Listed Product Installations, the temperature range is +32°F to +120°F (0°C to +49°C).*
- **Humidity:** 0 - 95% non-condensing.
- **Dimensions:** 3.75 in. x 2.25 in. x 1.5 in. (HxWxD) (9.5 cm x 5.7 cm x 3.8 cm)
- **Options:** B335 Swivel Mount Bracket (do not use in pet applications). 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.

3.0 Installation

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

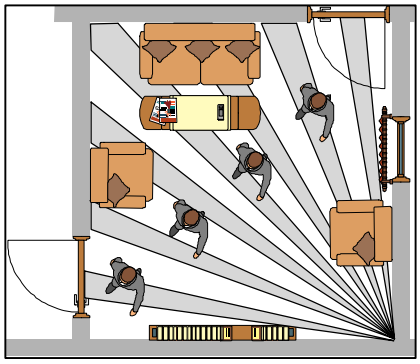


3.2 Press the vertical adjust tab toward the side of the case and lift out the board.

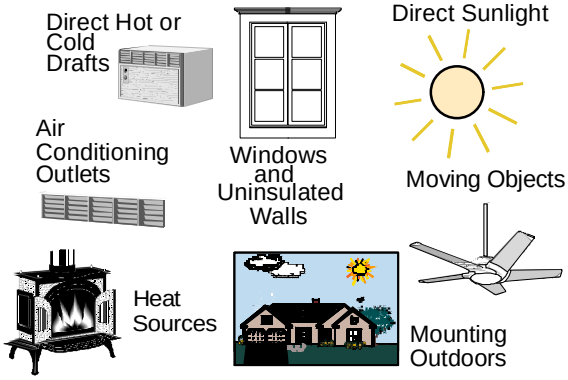


3.3 Select a mounting location.

Mount the sensor where an intruder will most likely cross through the coverage pattern.

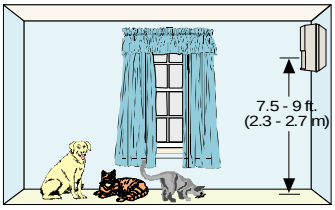


3.4 Avoid:

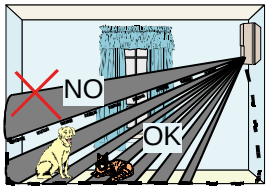


3.5 Observe the pet immunity mounting recommendations.

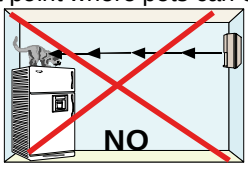
Note: The upper areas are not pet immune.



Mount the detector 7.5 - 9 ft. (2.3 - 2.7 m) above the floor



Don't point where pets can climb

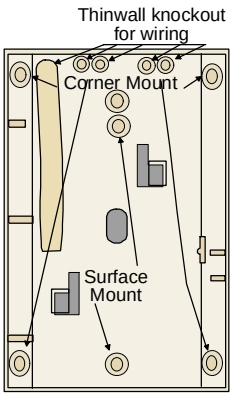


detection systems

A member of the Bosch Group

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.



= **7.5 - 9 ft. (2.3 - 2.7 m)**

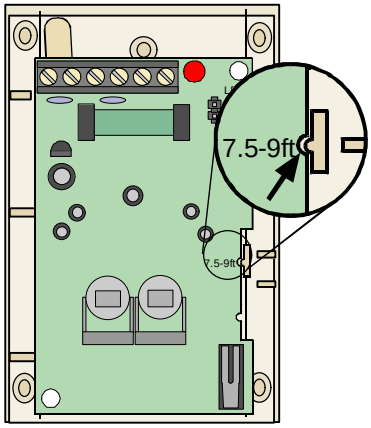
Remove

Areas if using the B335 Bracket

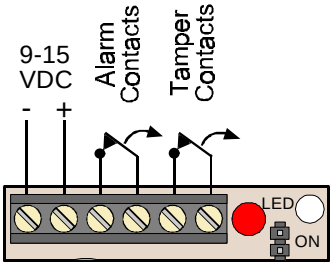
Do not use the B335 Bracket in pet applications

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

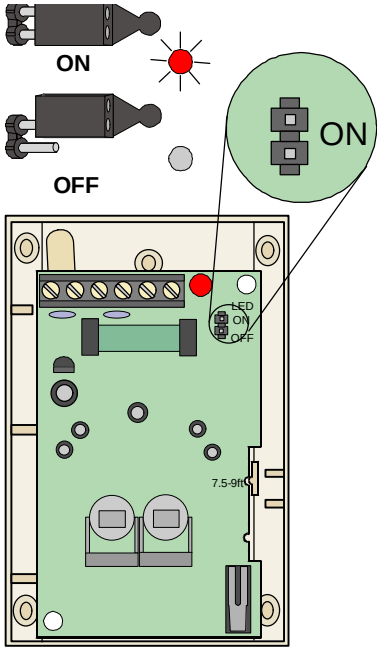
3.7 Set the height adjustment for 7.5 - 9 ft. (2.3 - 2.7 m).



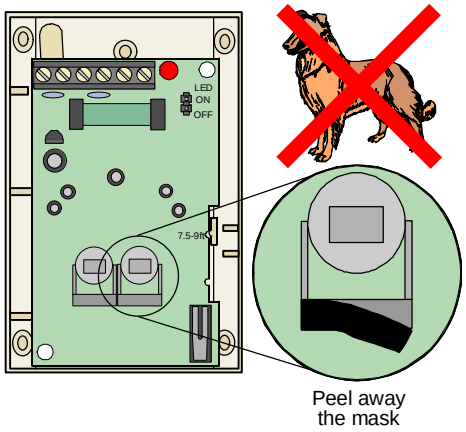
3.8 Wire the Detector.



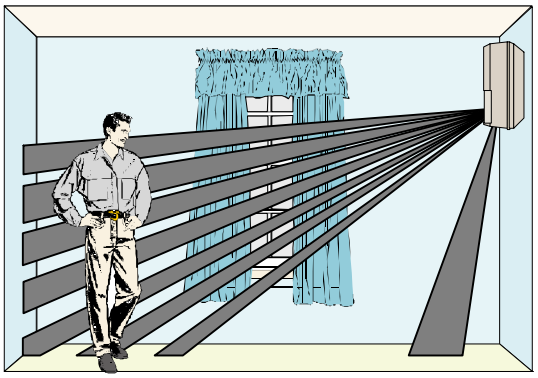
3.9 Select LED Operation



3.10 <u>In non-pet applications only,</u> **if look-down is desired**, peel away both look-down masks. **Do not remove the clear plastic lenses.**



3.11 **Walk Test** at the time of installation and annually thereafter.

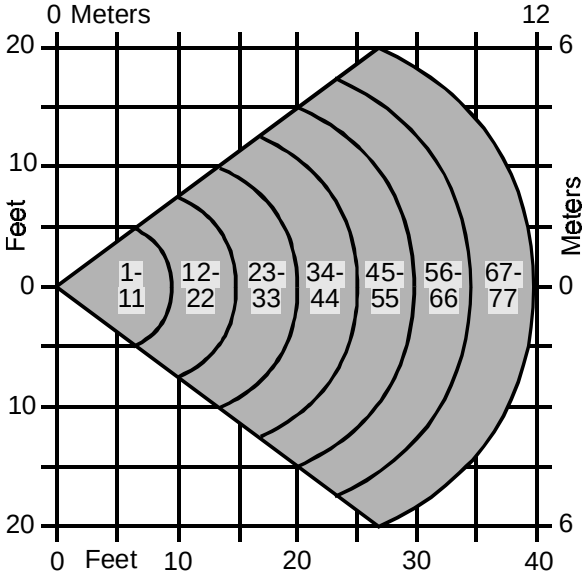


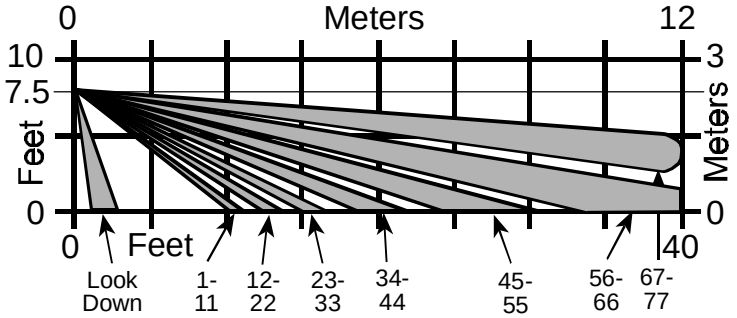
IMPORTANT

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.

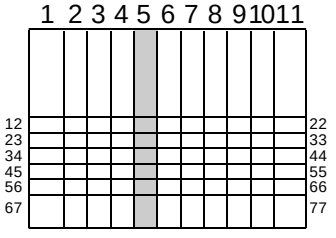
Please wait 2 minutes after initial power-up to perform any walk tests.

4.0 Coverage Patterns





Although generally not required, if masking is desired, the lens diagram shows the appropriate areas to be masked (see shaded area on the DS940QP lens diagram). Use an opaque material (such as, electrical tape) to mask the desired areas.



DS940QP Lens (inside view)

Detection Systems, Inc.
130 Perinton Parkway, Fairport, New York, USA 14450-9199
(716) 223-4060 • (800) 289-0096 • Fax: (716) 223-9180

DS940QP Installation Instructions
P/N: 39652G 04/01