

DS940Q

Passive Infrared Detector

Installation Instructions

1.0 Description

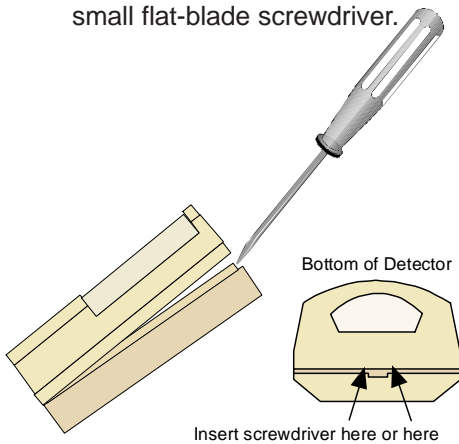
The DS940Q is a high performance Passive Infrared (PIR) Motion Detector which uses advanced signal processing to provide outstanding catch performance and unsurpassed false alarm immunity. It is designed to detect movement in the interior of a structure by sensing the Infrared energy emitted from the human body as it moves across the detector's field of view. When motion is detected, the detector sends an alarm signal to the Control Panel.

2.0 Specifications

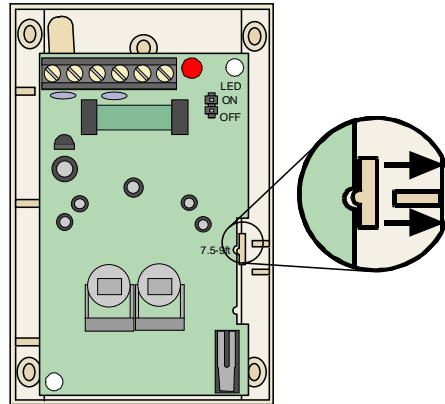
- **Input Power:** 9-15 volts DC
- **Current Draw:** 12 mA @ 12 VDC standby and alarm
- **Standby Power:** No internal standby power. *For UL Listed Product Installations, 4 hours (48 mA-h) standby power must be provided.*
- **Relay:** Form "A" Normally Closed (NC) contact set rated for 125 mA @ 28 volts maximum DC or 18 volts 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 circuit.
- **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. Use of this bracket may decrease the PIR range and increase dead zones.
- **Patents:** This product is covered by the following U.S. patent: #4764755.

3.0 Installation

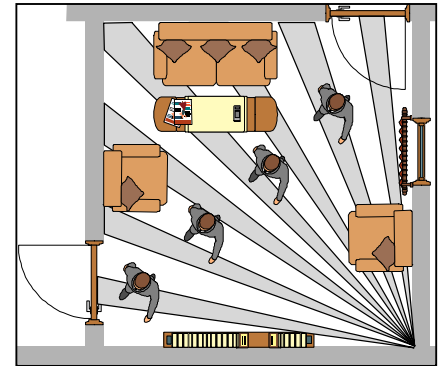
3.1 Remove the cover using a small flat-blade screwdriver.



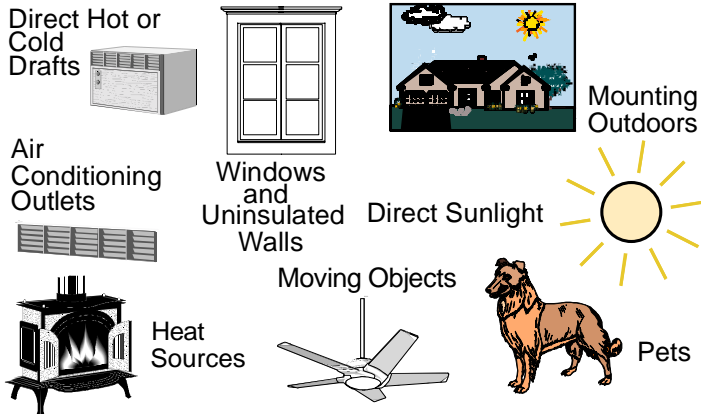
3.2 Press the vertical adjust tab toward the side of the case and lift out the board.



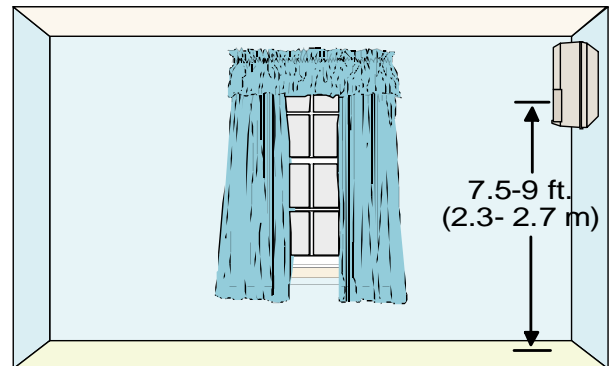
3.3 Select a mounting location. Mount the sensor where an intruder will most likely cross through the coverage pattern.



3.3 Avoid:



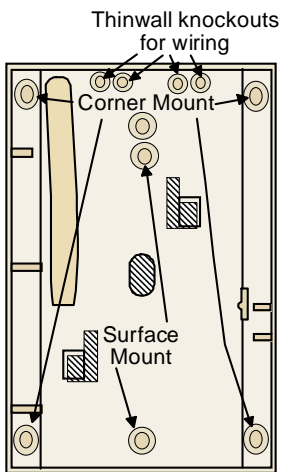
3.4 Position detector at correct height.



Mount the detector 7.5 - 9 feet (2.3 - 2.7 meters) above the floor

3.6 Mount the unit, using the appropriate mounting holes.

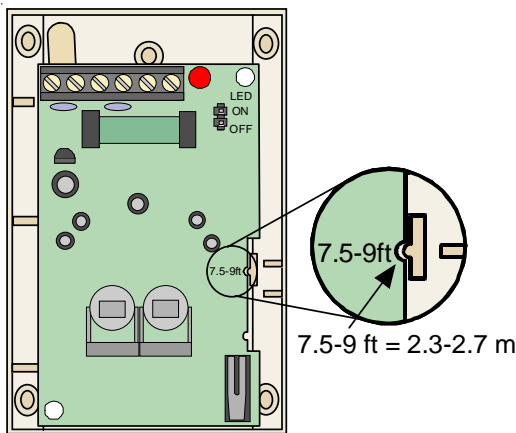
Note: To avoid possible circuit board damage, use **only** the mounting hardware provided in the appropriate punch-out mounting holes.



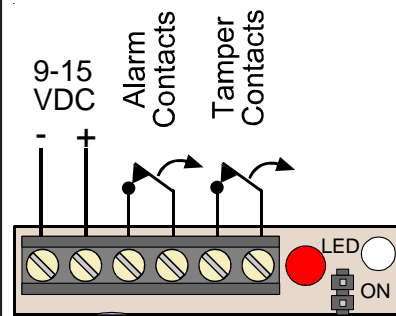
Remove Areas if using the B335 Bracket

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

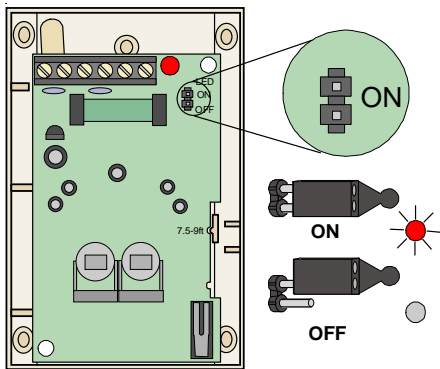
3.7 Install the board into the case. Be sure the vertical adjust tab aligns with the correct mounting height.



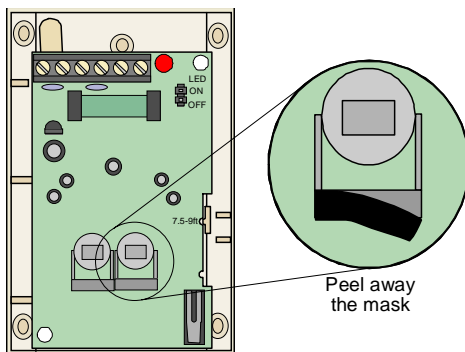
3.8 Wire the Detector.



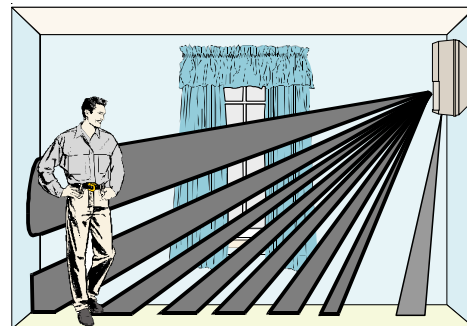
3.9 Select LED Operation



3.10 If look-down is desired, peel away the look-down mask. Do not remove the clear plastic lens.



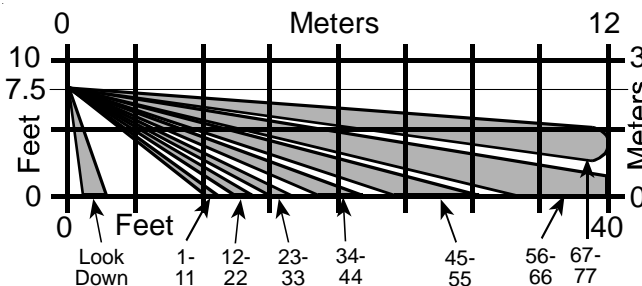
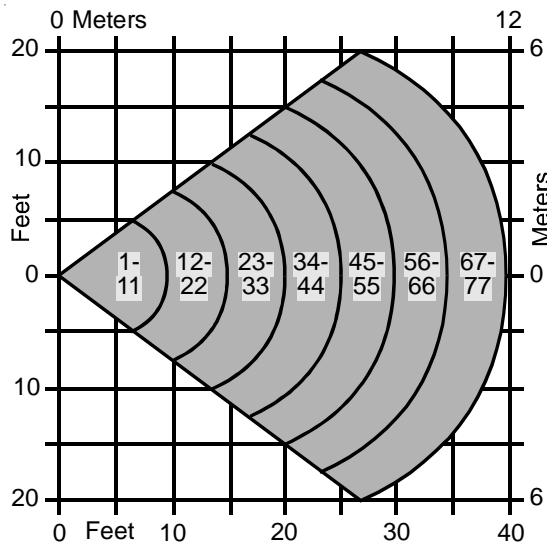
4.0 Walk test at the time of installation and annually thereafter.



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



Although generally not required, if masking is desired, the lens diagram shows the appropriate areas to be masked (see shaded area on the DS940Q lens diagram). Use an opaque material (such as, electrical tape) to mask the desired areas.

