

SENSAPHONE®

REMOTE MONITORING SOLUTIONS

SENSAPHONE INFRARED MOTION DETECTION SENSOR • FGD-0007-HW
Installation Instructions v4.0

The Infrared Motion Detection Sensor is used to monitor the movement of warm bodies in a specific area. The range is a maximum of 40 feet directly ahead of, and approximately 25 feet to either side of, the detector. The sensor requires 12V DC power to operate. Read all of the instructions before installing your sensor. Follow the recommendations to determine the best location to mount your sensor.

Wiring to Sensaphone

Connect the 'NC' and 'C' terminals on the detector to an unused Zone input on your Sensaphone. Connect 12V DC power from the power adapter to the 'V+' and 'V-' terminals. The wire nuts can be used to splice-in additional wire to the power wires.

Sensaphone Programming

Set the input type on your Sensaphone to Normally Closed with a recognition time of 1 second. See typical programming sequences below:

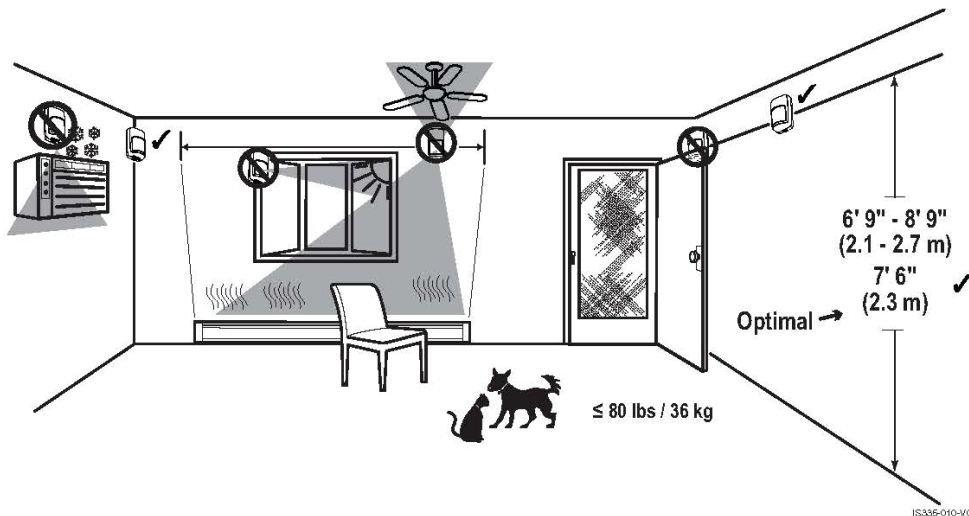
- For models 400, 800, 1400, 1800:

To be certain that the normal input state is closed, take a piece of wire and attach it across the input terminals. This will force the input closed. Press Set, then Configure to set the normality.

- For Sensaphone WEB600 and Express II:

Program the input type as normally closed.

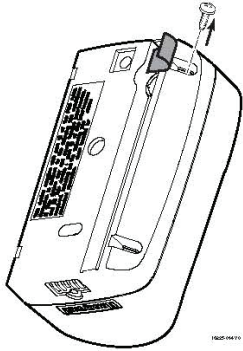
1 Select the Mounting Location



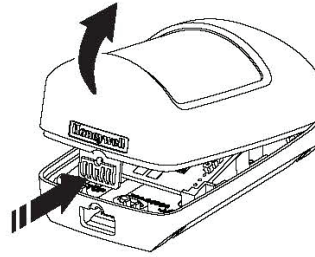
Mounting location guidelines:

- The optimal range is obtained at a mounting height of 7' 6" (2.3 m).
- Allow a clear line-of-sight to all areas to protect.
- Do not directly face windows.
- Avoid close proximity to moving machinery, fluorescent lights, and heating/cooling sources.
- For use in applications with pets up to 80 pounds (36 kilograms).

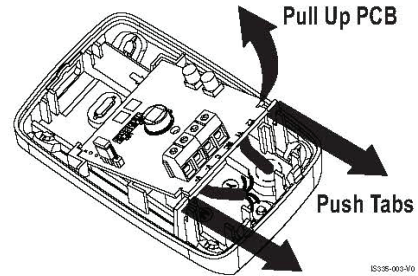
2 Retrieve Cover Locking Screw, Open Sensor and Remove Circuit Board



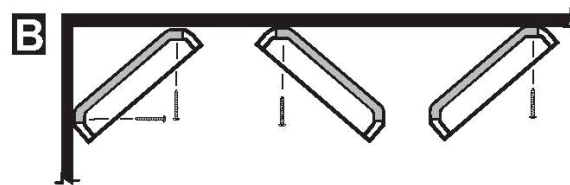
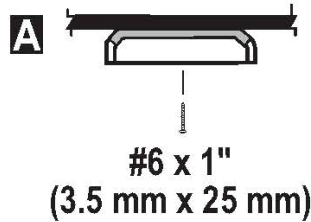
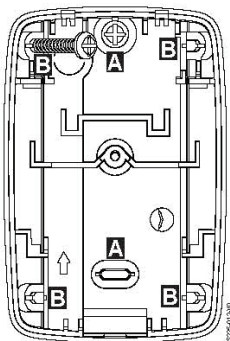
Remove tape from back housing and retrieve cover locking screw.



1. Press firmly on housing latch.
2. Pull up to separate the front and rear housing.



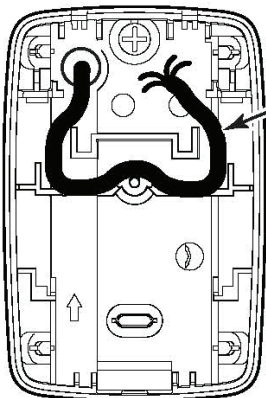
3 Mount the Sensor



*Not included

- [A] = Wall mounting holes.
- [B] = Corner mounting holes.

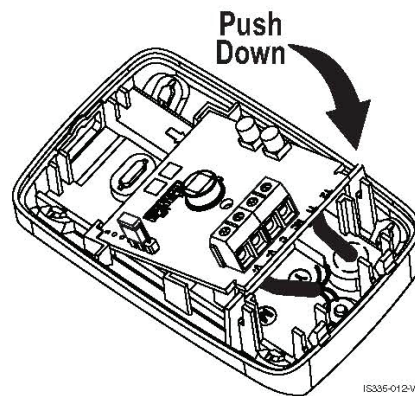
4 Route Wires



Shielded Cable
22-20 AWG
(0.32-0.52mm²)

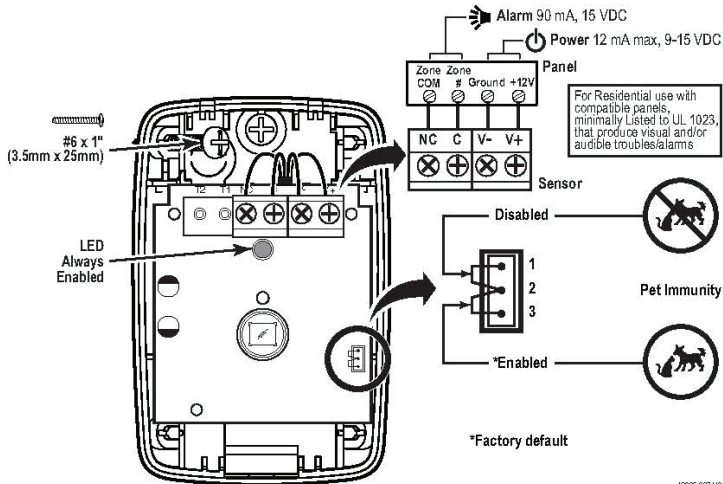
IS335-006-V0

5 Reinstall Circuit Board

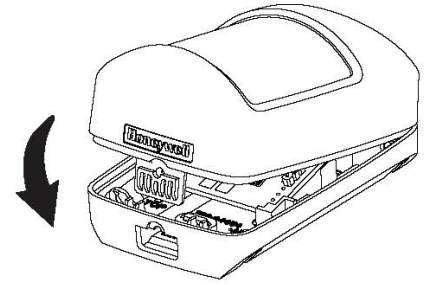


IS335-012-V0

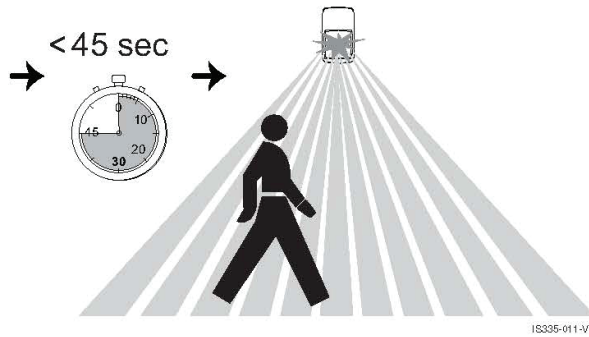
6 Connect Wires / Set Pet Immunity (PI) Jumpers



7 Assemble Front Cover



8 Perform Walk Test

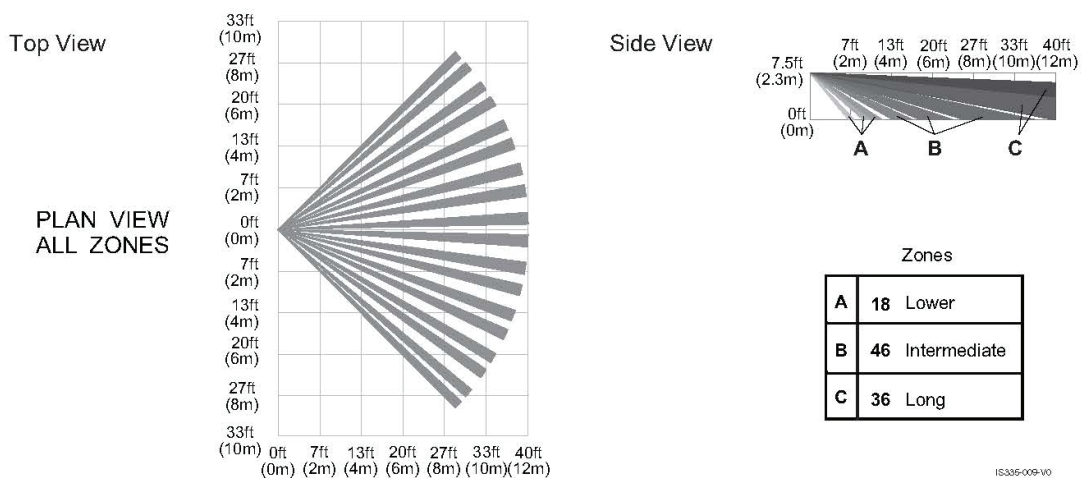


9 Install Cover Locking Screw



1. Close the sensor and apply power to the sensor. Initialization is complete when the LED stops flashing slowly (less than 45 seconds).
2. Walk through the detection area and observe the LED.

Detection Patterns



Specifications

Range: 40' x 56' / 12 m x 17 m

Wall Mounting Height: 6'9" – 8'9" (2.1 m - 2.7 m); Optimal 7'6" (2.3 m)

Power: 9.0-15 VDC (UL: 9.5-15 VDC); 7 mA typical, 12 mA maximum;

AC Ripple: 3 V peak-to-peak at nominal 12 VDC

Alarm Relay: Energized Form A; 90 mA, 15 VDC, 22 Ohms resistance maximum.

Alarm Relay Duration: 3 seconds

RFI Immunity: 20V/m 10-1000MHz, 15V/m 1000-2700MHz

PIR White Light Immunity: 2000 Lux typical

Operating Temperature: 14° to 131° F / -10° to 55° C

Relative Humidity: 5 to 93% (UL tested at 93%); non-condensing

Temperature Compensation: Advanced Dual Slope

Dimensions: 3.39" H x 2.24" W x 1.71" D / 8.6 cm H x 5.7 cm W x 4.35 cm D

Weight: 2.15 oz / 61 g (net weight)

APPROVAL LISTINGS

- FCC part 15, Class B verified
- IC ICES-003, Class B verified
- ETL Listed to UL 639
- cETL Listed to ULC S306

Product must be tested at least once each year.

All wiring must be in accordance with: the National Electrical Code (ANSI/NFPA70); the Canadian Electrical Code, Part I (where applicable); UL681, Standard for Installation and Classification of Burglar and Holdup Alarm Systems; ULCS302, Standard for Installation and Classification of Burglar Alarm Systems for Financial and Commercial Premises, Safes and Vaults; ULC-S310, Standard for Installation and Classification of Residential Burglar Alarm Systems; local codes and the authorities having jurisdiction. The sensor must be mounted indoors, within the protected premises, and on a wooden stud, solid wood or with a robust wall anchor.

UL Notes: All interconnecting devices must be UL Listed. The pet immunity feature has not been evaluated by UL.

For technical support, call 877-373-2700.

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