Passive Infrared Motion Detector with POPIT Interface 7X9357

Installation Instructions

1.0 Specifications

- Input Power: Connect to the Zonex Bus of the control panel.
- Current Draw: Less than 500 micro-amps. Two milli-amps when in walk test mode (LED on).
- Standby Power: There is no internal standby battery. Connect to DC power sources capable of supplying standby power if primary power fails. 500 micro-amp-hours required for each hour of standby time needed. Four hours minimum is required for UL Listed Requirements.

• Coverage: Standard Broad 35 ft. x 35 ft. (10.7 m x 10.7 m)

Barrier (Optional) 35 ft. x 10 ft. (10.7 m x 3.1 m) Long Range (Optional) 70 ft. x 10 ft. (21.4 m x 3.1 m)

Pet (Optional) 35 ft.x 35 ft. (10.7 m x 10.7 m) with 70 ft. (21.4 m) Long Range

- Sensitivity: Standard or Intermediate.
- Tamper: A tamper condition is signaled through the Zonex Bus and displayed at the keypads when the cover is removed.
- Temperature: The storage and operating range is -20° F to $+120^{\circ}$ F (-29° C to $+49^{\circ}$ C). For UL Listed Requirements, the range is $+32^{\circ}$ F to $+120^{\circ}$ F (0° C to $+49^{\circ}$ C).
- Requirements: Compatible Bosch Security Systems control panel with POPEX module installed.
- Options: B335-3* Low Profile Swivel Mount Bracket, OMB93-3* Barrier Mirror, OMLR93-3* Long Range Mirror, and the OMP93-3*PetMirror.

Note: Misalignment of the detector when using an optional mounting bracket may reduce range.

• Reading Bosch Security Systems, Inc. Product Date Codes: For Product Date Code information, refer to the Bosch Security Systems, Inc. Web site at: http://www.boschsecurity.com/datecodes/

2.0 Programming

Program the address DIP switches as described for the control panel you are using.

Note: When installing the ZX935Z with a D7212B1, D8112, or D9112B1; place switch number "0" in the ON position.

Recommended point type programming: D8112 = 7571

D9112B1/D7212B1 = Point type 2, point response 2, no ring until restored. D9412/D9112 = Point type 2, point response E, no ring until restored.

3.0 Mounting

Things to Avoid/Remember

Avoid

Direct hot and/or cold drafts. Windows. Small animals. Air conditioning outlets. Heat sources. Direct sunlight.

Remember

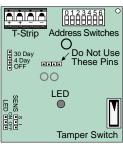
Won't detect through glass. Best catch performance is across the pattern. When using two or more detectors, cross patterns for best coverage.

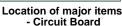


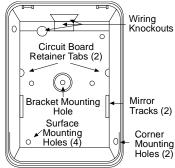
^{*}Shipped in packages of three.

1. Select a location that is most likely to intercept an intruder moving across the coverage pattern.

Note: The recommended mounting height range is 6.5 ft. to 8.5 ft. (2 m to 2.6 m). The mounting surface should be solid and vibration free.







Rear Enclosure and Mounting Holes

- 2. Remove the cover. Insert a thin flathead screwdriver into the notch at the bottom of the cover and pry up.
- 3. Remove the circuit board/mirror unit from the enclosure. Push the board/mirror unit toward the top of the enclosure until it clears its four retainer tabs, then lift it out.
- 4. Open the knock-out wire entrance and route the wiring through.

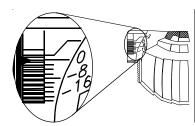
3.1 Surface or Corner Mounting

- 1. Open 2 holes for surface or corner mounting.
- 2. Mark the location for the mounting screws. Use the enclosure as a template. Pre-start the mounting screws.
- 3. Firmly mount the detector.
- 4. Replace the circuit board/mirror unit.

3.2 Select the Vertical Angle

The angle adjust markings are on the mirror. Slide the mirror forward or back until the angle hash marks are in-line with the markers on each side of the frame.

This chart will help you set the correct Vertical Angle based on the mounting height, mirror type, and desired range.



Mounting Height	Broad		Barrier		Long Range	
	20(6)	35(10)	20(6)	35(10)	40(12)	70(20)
6.5(2)	-10°	-6°	-6°	-4°	-4°	-2°
7.5(2.3)	-12°	-8°	-8°	-6°	-4°	-2°
8.5(2.6)	-14°	-10°	-12°	-8°	-6°	-4°

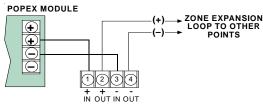
Height and desired Range listed in feet (meters)

4.0 Wiring



Only apply power after all connections have been made and inspected.

• Connect wiring as shown to the right:



30 Davs

4 Davs

4.1 Terminal Descriptions

• 1 (+), 2 (+), 3 (-), & 4 (-): Connect to the Zonex Bus of the control panel. Use no smaller than #22 AWG (0.8 mm) nor greater than #12 AWG (2.3 mm) wire between the detector and the control panel.

5.0 Program Plugs



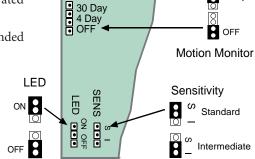
The LED is for walk test only. Disable the LED by placing LED program plug in the OFF position for normal operation. Failure to turn LED off will result in a Zonex bus malfunction.

The following functions are controlled by various settings of the program plugs:

- LED Operation (Walk Test only):
 - <u>ON</u>: Allows the LED to operate during a Walk Test when activated by alarm.
 - <u>OFF</u>: The LED will not operate on alarm. This is the recommended setting for normal operation.

· Sensitivity Mode:

 Standard: The recommended setting for maximum false alarm immunity. Tolerates environmental extremes on this setting. Standard Sensitivity is not recommended for Long Range or Barrier type patterns. The detector is shipped in Standard Sensitivity mode.



- <u>Intermediate</u>: The recommended setting for any location where an intruder is expected to cover only a small portion of the protected area. Tolerates normal environments on this setting. This setting will improve your intruder catch performance.

· Motion Monitor:

- Set for the desired Motion Monitor time (see Section 7.0 Supervision Features). The detector is shipped with the Motion Monitor plug in the OFF position.

6.0 Setup and Walk Testing

- 1. Apply power to the unit.
- 2. Wait approximately 3 minutes (with no motion in the coverage area) for the detector to setup.
- 3. Walk test across the coverage pattern.
- 4. The edge of the coverage is determined by activation of the LED.
- 5. Walk test the unit from both directions to determine the boundaries.



The LED is for walk test only. Disable the LED by placing LED program plug in the OFF position for normal operation. Failure to turn LED off will result in a Zonex bus malfunction.

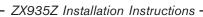
7.0 Supervision Features

- Motion Monitor Supervision: This feature verifies that the detector has a clear view of the detection area.
- When selected, a supervision timer is activated. A trouble condition will be indicated if the detector has not alarmed at least once during the selected time period (this feature can be disabled by placing the Motion Monitor plug in the OFF position). The time period selected should be long enough to allow adequate time for holiday weekends.

8.0 Instructions for Installations Containing Pets

The Pet Alley Mirror is intended to provide protection in installations where pets are allowed to move about freely.

• Adjust the Vertical Angle to 0° when using the Pet Alley Mirror.



- Because the unit will be installed lower than normal, be sure to position the unit with a clear line-of-sight across the
 room.
- To provide an accurate safety margin, install the unit no lower than twice the height of the pet, and never lower than 3 ft. (1 m).
- Make sure the field of view is free of all furniture or other objects on which the pet could climb or jump, resulting in an unwanted alarm.

9.0 Other Information

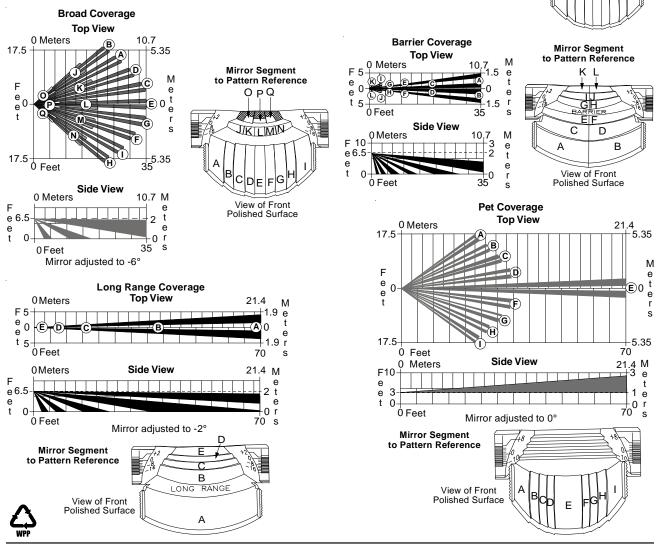
- Maintenance: The range and coverage should be checked in accordance with the Walk Testing section on a regular basis. Consult the control panel's User's Guide for the procedure on performing a zone test. Performing a zone test on a regular basis assures an alarm output prior to arming the system.
- Sealing the wire entrance: The foam plug provided is used to seal the wire entrance from drafts and insects after installation.
- Mirrors: The mirror is adjustable +1° to -18° vertically and ±10° horizontally. To change the mirror, pull it out from its resting grooves.

 To Remove Mask,

NOTE: Excessive handling of the mirror surfaces may lead to performance degradation.

10.0 Coverage Patterns

This product is factory assembled with the look down zones (O, P, and Q) masked out. If you wish to use these zones, simply remove the masking tape from the lens.



peel back tab