EN1262 EchoStream® Passive Infrared Motion Detector

Installation and Operation Manual

1 Overview

The EN1262 is a low-current motion detector highly sensitive to moving heat (infrared radiation) sources.

1.1 Inovonics Contact Information

If you have any problems with this procedure, contact Inovonics technical services:

- E-mail: support@inovonics.com
- Phone: (800) 782-2709; (303) 939-9336

1.2 What's in the Carton

- One Duracell DL123A 3.0V battery
- Two selection jumpers
- Two mounting drywall anchors
- Two mounting screws
- Two housing screws
- One tamper wall anchor
- One tamper rivet

1.3 Passive Infrared Motion Detector Internal Components

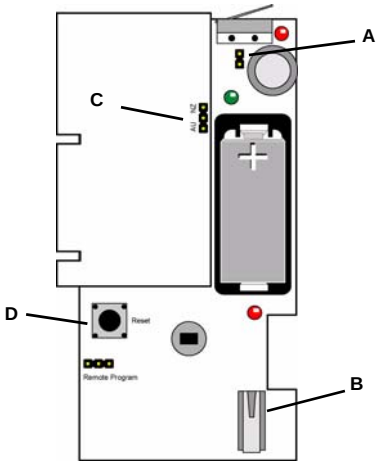

Figure 1 EN1262 Components

A Wall tamper selection pins **B** Housing tamper switch **C** Frequency band selection pin **D** Reset button

2 Installation and Startup

2.1 Installation Notes

- These products are designed to be maintained by professional security technicians
- Products are tested for indoor use
- All products should be manually tested weekly

2.2 Mount the Housing

1. Insert a small flat-blade screwdriver at the tab on the bottom of the unit. The screwdriver will enter the slot at about a 45° angle. Press downward on the handle of the screwdriver until the latch holding the cover to the housing base releases.

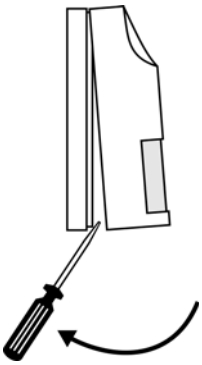

Figure 2 Open the housing

2. Pull the circuit board attachment latch and lift the circuit board out of the housing.

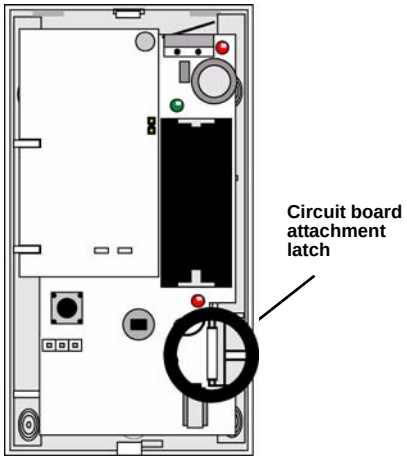

Figure 3 Circuit board attachment latch

3. As desired install the wall tamper rivet.

Note: Wall tamper installation is required for BSI Class VI.

a. Use a 3/16" (4.8mm) bit to drill out the tamper rivet hole index.
b. Install the tamper wall anchor in the wall where you will be mounting the motion detector's tamper rivet.
c. Use a hammer to tap a rivet into place in the tamper wall anchor.

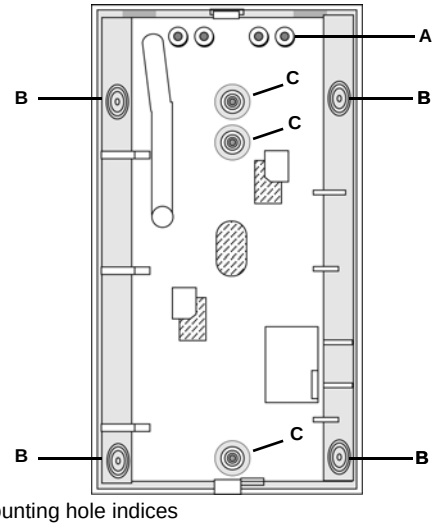

Figure 4 Mounting hole indices

A Tamper rivet index **B** Corner mount index **C** Wall mount index

4. Mount the housing, using either the three wall-mount holes or the four corner-mount holes.
   a. Use a 5/32” (4 mm) bit to drill out the appropriate housing hole indexes.
   b. Use the included screws and anchors to mount the housing.
5. If using the wall tamper, ensure the wall tamper rivet depresses the wall tamper switch arm.

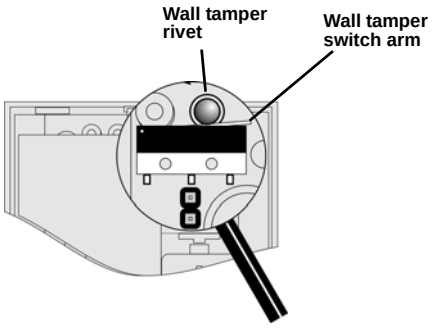

Figure 5 Wall tamper switch

2.1 Set Parameters

6. If using the wall tamper, remove the shunt from the wall tamper selection pins.
7. Install the Duracell DL123A 3.0V battery into the battery holder.
8. EchoStream devices are able to use a range of radio frequencies, and must be configured for your geographic area. This device ships with a default frequency range of 902-928 MHz for use in North America. If you are using the device in North America, skip to 2.2, “Set Zones”; if you are using the device in Australia or New Zealand, you will need to configure it.
   - Place the jumper on the top two pins to select 921-928 MHz for New Zealand.
   - Place the jumper on the bottom two pins to select 915-928 MHz for Australia.
9. Press the reset button.

Caution: When pressing the reset button, make sure you don’t also touch the frequency band selection pins. Touching the frequency band selection pins while pressing the reset button can inadvertently set the EN1262 to the wrong frequency band.

2.2 Set Zones

10. If masking is required, use the PIR zone diagram and the lens inside view diagram to choose the appropriate zones to be masked. Use opaque masking material, such as electrical tape.

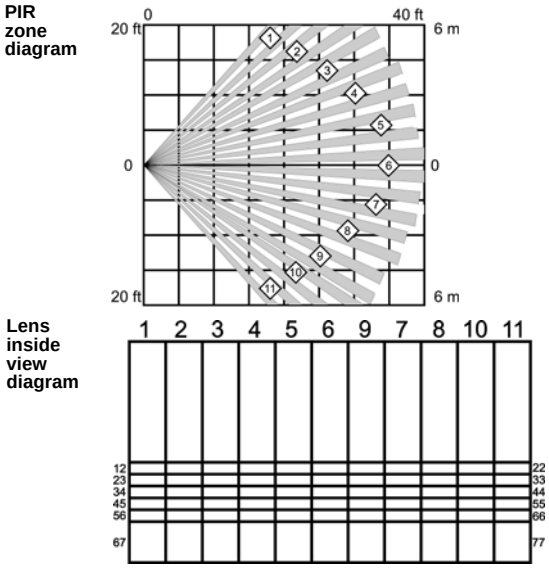

Figure 6 Mask zones

11. As desired enable the look down zones by peeling the mask from the look down lens.

Figure 7 Enable look down zones

2.3 Register the Transmitter

The EN1262 must be registered with the system receiver in order to be monitored and supervised. Each EN1262 has a unique factory-programmed identification number. Refer to the receiver, network coordinator or control panel installation instructions for details on registering a transmitter.

12. When prompted to reset the EN1262, press the reset button.
13. Replace the housing cover.
14. If using the optional housing screws for added security, use a 7/64” (2.78 mm) bit to drill out the housing hole indexes on the top and bottom of the housing.
15. Use the included screws to secure the housing.

Caution: The EN1262 should be tested after registration to ensure operation. To test the EN1262, activate each of the conditions and ensure an appropriate response.

3 Testing

Once the battery is installed, the unit enters a three-minute non-alarming stabilization period indicated by the LED flashing once per second. After the stabilization period, the unit requires two seconds of quiet. After that two seconds, the unit will remain in walk test mode until it is left untripped for 120 seconds.

1. During the three minute stabilization period, press and release the housing tamper switch to cause a tamper transmission.
2. When the stabilization period is complete, replace the housing and walk in front of the lens to create an alarm.

4 US Patent Numbers

- 7,154,866
- 7,554,932
- 7,746,804
- Other patents pending

5 Specifications

Dimensions: 11.4 cm x 6.4 cm x 4.1 cm (4.5”H x 2.5”W x 1.6”D)
Operating temperature: -4° to 140°F (-20° to 60°C)
Humidity: 0 - 90% (non-condensing)
Battery (BAT604): CR123A or equivalent
Typical battery life: Two years
Tamper: Housing and/or Wall (optional)
PIR: Detection Systems RF940U
PIR RF interference immunity: Greater than 30 v/m 26 MHz - 1 GHz
Detection zone: 12.2m x 12.2 m (40’ x 40’) with lookdown zone
Alarm Lockout Time: Three minutes
Mounting height: 2.1 to 2.7 m (7 to 9 feet)

6 Television and Radio Interference

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

7 FCC Part 15 and Industry Canada Compliance

This device complies with part 15 of the FCC Rules and Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

8 Warranty and Disclaimer

Note: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Inovonics Wireless Corporation ("Inovonics") warrants its products ("Product" or "Products") to conform to its own specifications and to be free of defects in materials and workmanship under normal use for a period of thirty-six (36) months from the date of manufacture. Within the warranty period, Inovonics will repair or replace, at its option, all or any part of the warranted Product. Inovonics will not be responsible for dismantling and/or reinstallation charges. To exercise the warranty, the User ("User", "Installer" or "Consumer") must work directly through their authorized distributor who will be given a Return Material Authorization ("RMA") number by Inovonics. Details of shipment will be arranged directly through the authorized distributor.

This warranty is void in cases of improper installation, misuse, failure to follow installation and operating instructions, alteration, accident or tampering, and repair by anyone other than Inovonics.

This warranty is exclusive and expressly in lieu of all other warranties, obligations or liabilities, whether written, oral, express, or implied. There is no warranty by Inovonics that Inovonics product will be merchantable or fit for any particular purpose, nor is there any other warranty, expressed or implied, except as such is expressly set forth herein. In no event shall Inovonics be liable for an incidental, consequential, indirect, special, or exemplary damages, including but not limited to loss of profit, revenue, or contract, loss of use, cost of down time, or interruption of business, nor any claim made by distributor's customers or any other person or entity.

This warranty will not be modified or extended. Inovonics does not authorize any person to act on its behalf to modify or extend this warranty.

This warranty will apply only to Inovonics Products. Inovonics will not be liable for any direct, incidental, or consequential damage or loss whatsoever, caused by the malfunction of Product due to products, accessories, or attachments of other manufacturers, including batteries, used in conjunction with Inovonics Products.

Note: E-mail support@inovonics.com for a copy of the CE Declaration of Conformity.