EE1261 EchoStream® Four-Element Motion Detector
Installation Instructions - 05308A

1 Overview
The EE1261 is a wireless motion detector that features a detection range of 15 meters, fixed or variable sleep time, a walk test feature, a front and rear tamper switch, and increased immunity to radio frequency interference, vibration, static, lighting ambient temperature changes, and other causes of false activation. The EE1261 is designed with pet immunity up to 15kg weight and 30cm height.

Caution: The EE1261 needs one minute for stabilization after power up. During the stabilization period, the LED will blink twice per second, and the EE1261 will not be operational.

Caution: Prior to operation, the EE1261 must be acclimated to the temperature of the install environment for a period of 60 minutes.

1.1 Inovonics Wireless Contact Information
If you have any problems with this procedure, contact Inovonics Wireless technical services:
- E-mail: support@inovonics.com
- Phone: (800) 782-2709; (303) 939-9336

1.2 EE1261 Components

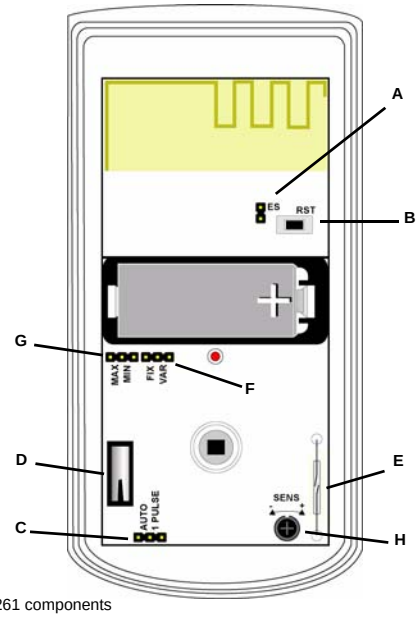

Figure 1 EE1261 components

A EchoStream Select pins	**B** Reset button	**C** Pulse count selection pins
D Tamper switch	**E** Test mode reed switch	**F** Sleep time selection pins
G Sleep duration selection pins	**H** Sensitivity adjustment dial	

2 Installation and Startup

2.1 Install/Replace Battery
To install the battery:
1. Release the housing screw and gently raise the cover.

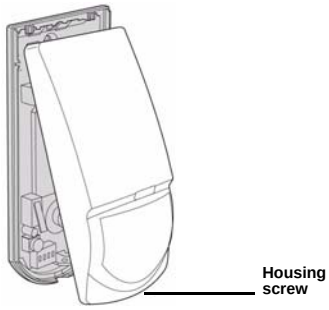

Figure 2 Open the cover
2. Install/replace the battery.
3. Press the **Reset** button to initialize the transmitter.

You must press the Reset button each time the battery is changed.

2.2 Enable EchoStream Select
To meet ETSI requirements, Inovonics has developed a new line of EE 868MHz-only products. These new 868MHz-only products are compatible with older systems that include EchoStream Select products. If you are using any ES products in your current system, you will need to enable EchoStream Select compatibility on this new 868MHz-only product.

To enable/disable EchoStream Select compatibility:
1. To enable compatibility with ES products, place a selection jumper on the ES selection pins.

Note: The selection jumper is included in the EE1261 hardware packet.

2. If no ES products are used in your system, remove the selection jumper from the ES selection pins.
3. Press the **Reset** button to initialize the transmitter.

Caution: When pressing the **Reset** button, make sure you don't also touch the EchoStream Select pins. Touching the EchoStream Select pins while pressing the **Reset** button can inadvertently set the EE1261 to the wrong frequency band.

2.3 Select Automatic/Pulse Count
The pulse count jumper setting provides control for normal or difficult operating environments. Automatic pulse count is recommended for reliable operation in environments subject to temperature fluctuations that may cause false alarms. The single pulse count mode is more sensitive to minor temperature variations, and should be used in sites where variant heat sources will not cause false alarms.
1. Place a selection jumper on the appropriate pulse count selection pins.
   - Place the jumper on the left two pins, marked AUTO, to select automatic pulse count.
   - Place the jumper on the right two pins, marked 1 PULSE, to select single pulse count.

2.4 Select Fixed/Variable Sleep Time
When set to variable, if the EE1261 senses motion, it will transmit an alarm, then enter sleep mode for the sleep time duration; if motion is sensed before the sleep time duration has expired, the EE1261 will restart the sleep time duration. Variable sleep time is the recommended, default setting for high-traffic commercial environments.
When set to fixed, if the EE1261 senses motion, it will transmit an alarm, then enter sleep mode until the sleep time duration expires; if motion is sensed when the sleep time duration has expired, the EE1261 will transmit another alarm. Fixed sleep time is only recommended for low traffic, residential operating environments.
1. Place a selection jumper on the appropriate sleep count selection pins.
   - Place the jumper on the right two pins, marked VAR, to select variable sleep time.
   - Place the jumper on the left two pins, marked FIX, to select fixed sleep time.

2.5 Select Sleep Duration
If the sleep duration is set to maximum, the sleep duration will be 180 seconds. Maximum is the recommended, default setting for most environments.
If the sleep duration is set to minimum and the sleep time is set to fixed, the EE1261 will have a sleep time of 15 seconds for the first six transmissions while motion is still sensed, followed by one extended sleep period of 180 seconds. If the sleep duration is set to minimum and the sleep time is set to variable, the EE1261 will have a sleep time of 30 seconds.

Caution: EE1261 motion detectors set in the minimum mode will have a decreased battery life.

1. Place a selection jumper on the appropriate sleep duration selection pins.
   - Place the jumper on the left two pins, marked MAX, to select a maximum sleep duration.
   - Place the jumper on the right two pins, marked MIN, to select a minimum sleep duration.

2.6 Using Sleep Time and Sleep Duration

Maximizing battery life To prolong battery life of the EE1261, select MAX on the sleep duration pins, and VAR on the sleep time selection pins. With the variable sleep timer active and the sleep duration set to maximum, the detector first sends an alarm and then sleeps for 180 seconds. If the detector sees movement during this time, it restarts the sleep timer and doesn't send an alarm. This mode is recommended for high traffic environments with frequent activity during disarmed periods.
Increasing catch rate (and UK DD243 installations) To maintain optimum detection immediately following system arming, select MIN on the sleep duration pins, and FIX on the sleep time selection pins. When the detector sees motion it goes to sleep for 15 seconds. If the detector sees movement during this time, and is still active, it sends a new activation at the end of the 15 second window. The detector continues to do this for five more cycles. After six consecutive cycles, the detector goes to sleep for an extended 180 second period to conserve batteries. This mode may be used for DD243 installations in the UK. Battery life may be significantly shortened by use of this setting.

2.7 Adjust sensitivity
The sensitivity of the motion detector can be adjusted to fit your specific application. To adjust sensitivity:
1. Use a philip's head screwdriver to turn the sensitivity adjustment dial.
   - Turn the dial to the left, towards the minus sign, to decrease the motion detector's sensitivity.
   - Turn the dial to the right, towards the plus sign, to increase the motion detector's sensitivity.

2.8 Register the Transmitter
The EE1261 must be registered with the system receiver in order to be monitored and supervised. Each EE1261 has a unique factory-programmed identification number. Refer to the receiver, network coordinator or control panel installation instructions for details on registering a transmitter.
1. When prompted, press the **Reset** button.
2. Replace the EE1261 cover.
3. Replace the housing screw.

Caution: The EE1261 should be tested after registration to ensure operation. To test the EE1261, activate each of the conditions and ensure an appropriate response.

Note: The EE1261 retains programming data in non-volatile memory. It does not require re-programming after loss of power.

2.9 Mount the Transmitter
Mount the transmitter.
1. Remove the EE1261 printed circuit board from the housing.
2. Use the included hardware to mount the EE1261 housing back plate to the mounting surface.

a. If using the wall tamper function for increased security, mount the housing back plate per Figure 3, ensuring the tamper switch is depressed..

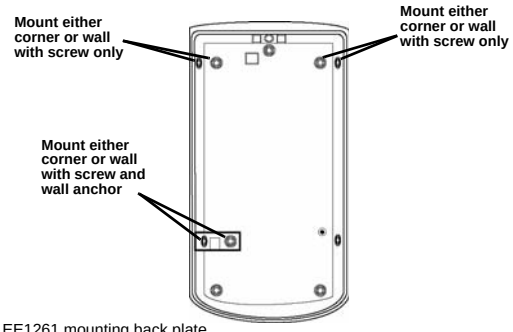

Figure 3 EE1261 mounting back plate

b. If not using the wall tamper, mount the housing back plate using all appropriate hardware.

3 Optional Brackets

Optional wall and ceiling mount brackets, Inovonics part number ACC665, are available. The wall and ceiling mount brackets must not be used for graded applications.

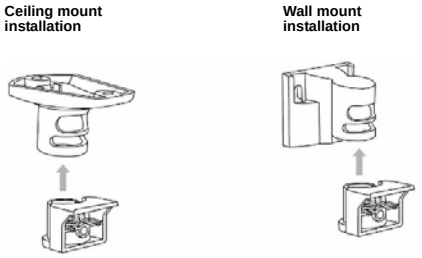

Figure 4 Ceiling and wall mount brackets

To mount a ceiling or wall bracket:

1. Remove the pcb board.
2. Attach the housing to the bracket.

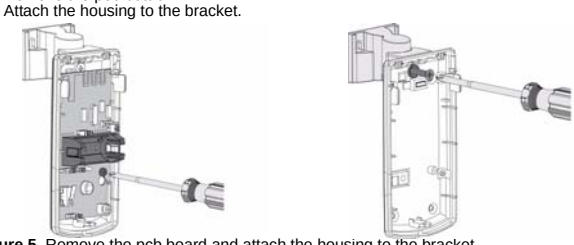

Figure 5 Remove the pcb board and attach the housing to the bracket

3. Replace the pcb board.

3.1 Test the EE1261

Caution: The EE1261 should be tested after registration to ensure operation. To test the EE1261, activate each of the conditions and ensure an appropriate response.

3.2 Perform a Walk Test

The walk test is performed to ensure motion is sensed and an RF transmission results. To perform a walk test:

1. Swipe the magnet past the reed switch. The five minute walk test will begin; every time motion is sensed, the LED will light and the EE1261 will transmit a signal.
2. Walk in front of the motion detector to test the sensor.
3. After five minutes the walk test will automatically end.

4 Operation

The EE1261 transmitter signals an alarm condition when motion is detected by the sensor.

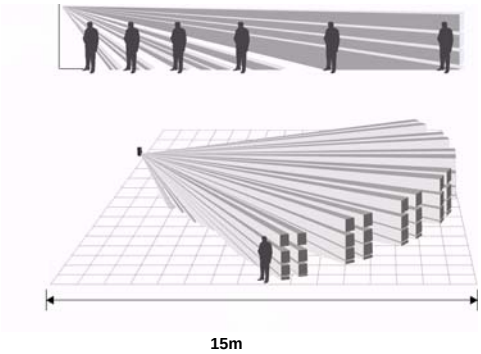

Figure 6 Standard mounting height and range

5 Specifications

Dimensions: 11.4 cm x 6.4 cm x 4.1 cm (4.5"H x 2.5"Wx 1.6"D)
Detection method: Quad element PIR
Storage temperature: -20° to 60°C (-4° to 140°F)
Operating temperature: -10° to 50°C (14° to 122°F)
Humidity: 0 - 90% (non-condensing)
Battery: 3V LiMnO2, BAT604 (Panasonic CR123A or Duracell DL123A)
Temperature compensation: Yes
Tamper: Housing and wall tamper
PIR RF interference immunity: Greater than 30 v/m 26 MHz - 1 GHz
Stabilization period: One minute
Alarm lockout time: Three minutes (in fixed, maximum mode)
Walk test period: five minutes
Mounting height: 2.1 to 2.7 m (7 to 9 feet)
Compliance: EN50131-2-2:2008; Security Grade 2; Environmental Class II;CE

6 Warranty/Disclaimer

Note: Changes or modifications to this unit not expressly approved by Inovonics Wireless Corporation may void the installer's authority to operate the equipment as well as the product warranty.

Inovonics Wireless Corporation ("Inovonics") warrants its EchoStream 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.