



EN1265 EchoStream® 360° Passive InfraRed Motion Detector

Installation and Operation Manual - 05381D

1 Overview

The EN1265 is a wireless, ceiling-mounted four-element passive infrared (PIR) intrusion detector providing protection from intruders by pyro-sensor array. Micro-controller signal analysis with special technology for pulse processing increases immunity to interference, vibration, static, lightning, ambient temperature changes and other common causes of false alarms.

Caution: The EN1265 needs one minute for stabilization after power up. During the stabilization period, the LED will blink twice per second, and the EN1265 will not be operational.

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

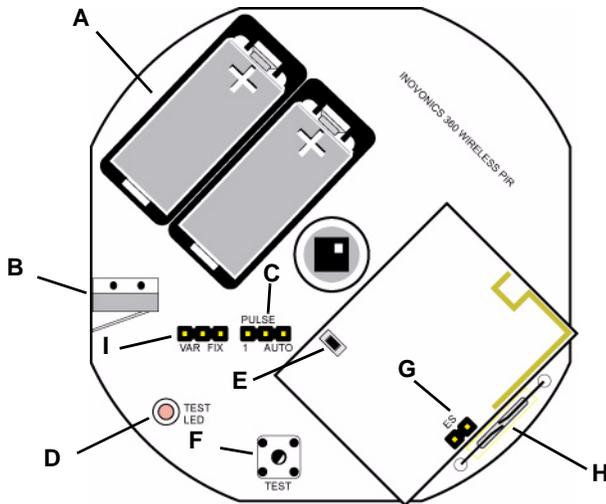


Figure 1 EN1265 components

- | | | |
|----------------------------|--------------------|--|
| A Batteries | B Tamper switch | C Pulse count selection pins |
| D Test LED | E Reset button | F Test button |
| G Frequency selection pins | H Test reed switch | I Fixed/variable sleep time selection pins |

2 Installation and Startup

2.1 Install the Batteries

The EN1265 can accommodate two batteries for extra battery life, but only one is required for operation.

Note: When installing batteries, it is recommended that batteries are replaced in new pairs from the same manufacturer.

To install batteries:

1. Loosen the housing tamper lock screw.
2. Remove the housing cover.

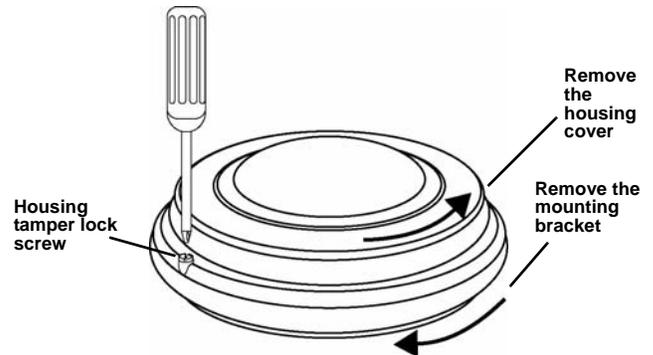


Figure 2 Remove the housing cover and mounting bracket

3. Install the battery included with the unit.
 4. Install an optional second battery.
 5. Press the **Reset** button to initialize the transmitter.
- You must press the **Reset** button each time the battery is installed.

2.2 Select Frequency Band

EchoStream products are able to use a range of radio frequencies, and must be configured for your geographic area:

1. Place a selection jumper on the appropriate frequency band selection pins.
 - Place the jumper on the left two pins, marked NZ, to select 921-928 MHz for New Zealand.
 - Place the jumper on the right two pins, marked AU, to select 915-928 MHz for Australia.
 - Leave the jumper off the pins to select 902-928 MHz for North America.

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 EN1265 to the wrong frequency band.

2.3 Select PIR Sensitivity

The pulse count selection pins provide control for difficult operating environments. Automatic pulse count is recommended for reliable operation in environments subject to temperature fluctuation that can 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 alarms. Automatic pulse count is the factory default because it allows more reliable operation in environments subject to temperature fluctuation. To select PIR sensitivity:

1. Place a selection jumper on the appropriate pulse count selection pins.
 - Place the jumper on the left two pins to select a single pulse count.
 - Place the jumper on the right two pins to select an automatic pulse count.

2.4 Select Fixed/Variable Sleep Time

The sleep time jumper setting provides control for normal or high-traffic operating environments. When set to fixed, if the EN1265 senses motion, it will transmit an alarm, then enter sleep mode for 180 seconds; if motion is sensed when the sleep time has expired, the EN1265 will transmit another alarm. Fixed sleep time is recommended for normal operating environments. When set to variable, if the EN1265 senses motion, it will transmit an alarm, then enter sleep mode for 180 seconds; if motion is sensed before the sleep time has expired, the EN1265 will restart the 180 second interval. Variable sleep time is recommended for high-traffic operating environments, and is the default setting as shipped from the factory.

1. Place a selection jumper on the appropriate sleep countselection pins.
 - Place the jumper on the right two pins to select fixed sleep time.
 - Place the jumper on the left two pins to select variable sleep time.
2. Press the **Reset** button.

2.5 Register the PIR

The EN1265 must be registered. Refer to receiver, network coordinator or control panel installation instructions to register the EN1265. Press **Reset** when prompted to register the transmitter.

Caution: The EN1265 should be tested after registration to ensure operation. To test the EN1265, activate each of the conditions and ensure an appropriate response.

2.6 Mount the EN1265

1. Install the housing cover and housing tamper lock screw.

Note: Ensure the housing tamper lock screw is tightened sufficiently to depress the tamper switch. If the housing tamper lock screw is not sufficiently tightened, the EN1265 will remain in a state of tamper.

2. Remove the mounting bracket.
3. Use the provided anchors and screws to mount the EN1265 housing base to the ceiling.
 - The EN1265 can be mounted to a maximum height of approximately 12 feet (3.6 meters). As mounting height increases, distance between detection zones also increases toward the perimeter, and the effects of factors such as floor surface temperature and intruder direction and speed are intensified. This can contribute to reducing speed of detection. Every installation should include a walk test of detection zones, including intrusion paths crossing the edges of the zones. See Figure 3 and Figure 4 for more information.

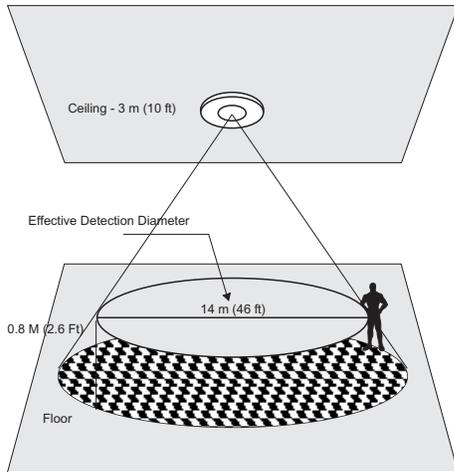


Figure 3 EN1265 detection diameter

Note: The ACC669 long range lens allows for an install height of up to 25 feet.

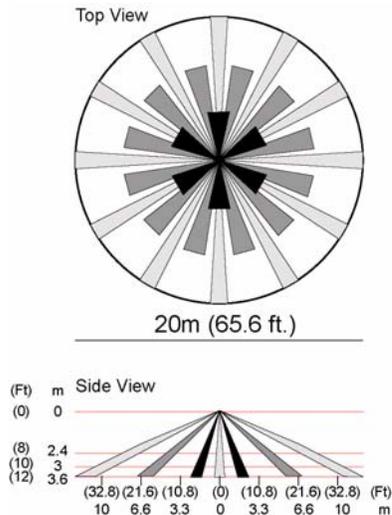


Figure 4 EN1265 lens pattern

4. When the housing base has been attached to the ceiling, install the PIR on the mounting bracket.

3 Test the EN1265

3.1 Walk Test

When in walk test mode the test LED will light every time the EN1265 senses motion. The unit will not transmit alarm signals during this test period. There are two ways to initiate a walk test. Once initiated, the walk test will last for three minutes. To initiate a walk test:

1. With the cover off the unit, pass a magnet near the walk test reed switch for one second, or press the test button for one second.

Note: The test LED only lights during the walk test and the transmission test.

3.2 Transmission Test

When in transmission test mode the unit will transmit alarm and restoral cycles at regular intervals for approximately one minute. The LED will light every time the unit transmits. To initiate a transmission test:

1. With the cover off the unit, hold a magnet near the walk test reed switch for at least three seconds, or press the test button for at least three seconds.

4 Operation

The EN1265 contains a tamper switch on the board to alert the user if the housing cover is removed. The EN1265 also contains tamper contacts in the mounting bracket to alert the user if the unit is removed from the wall.

5 Specifications

Dimensions: 5.2" x 2.25" (131mm x 57mm)

Weight: 6.52 oz. (185g)

Detection method: 4-element PIR

Operating temperature: 32°F to 120°F (0°C to 49°C)

Humidity: 10% to 90% non-condensing

Battery: Inovonics BAT604 (3.0V lithium Duracell DL123A)

Note: Battery is supervised

Typical battery life: 4 years in location with low to moderate activity

Visible light protection: Stable against halogen light 8 feet (2.4m) or reflected light

Temperature compensation: Yes

Pulse count: Selectable single pulse or multiple pulse

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 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.