



FA206B
Frequency Agile® 900MHz Transmitter
Passive InfraRed Motion Detector

Installation Instructions
03814A

Overview:

The FA206B is an Inovonics transmitter incorporating the Detection Systems RF940U PIR. The unit operates on a single 3.0V lithium battery (Panasonic CR123A or equivalent). The PIR is designed to detect indoor movement of human-size infrared targets. With Detection Systems' Pet Friendly® feature the sensor will not detect single or multiple animals up to 30 pounds (13.6 Kg) total weight.

Features:

- Inovonics' reliable 900 Megahertz *Frequency Agile®* radio link.
- Mounting options permit flat wall, corner or hallway mounting. Optional bracket for special mounting.
- RF interference immunity.

Specifications:

Dimensions:	4.5" H x 2.5" W x 1.6" D (11.4 cm x 6.4 cm x 4.1 cm)
Operating temperature:	32°F to 120°F (0°C to 49°C)
Humidity:	0 – 85% non-condensing (PIR)
Battery:	1 - 3.0V lithium (Panasonic CR123A, Duracell DL123A) Note: Battery is always supervised
Tamper:	Housing and wall (optional)
PIR RF interference immunity:	Greater than 30 v/m 26 MHz – 1 GHz
Mounting Height:	7 to 9 feet (2.1 to 2.7 meters)
Alarm lockout time:	3 minutes
Options:	B335 Swivel and B338 Ceiling mounting brackets (from Detection Systems)

Important Notes

- ▲ These products are designed to be installed and maintained by professional security technicians.
- ▲ Products, unless specifically noted, are intended for indoor use.
- ▲ Manually test all products regularly.

Installation:

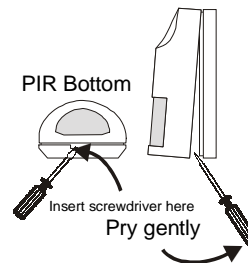
Mounting Note: Recommended mounting height range is 7 to 9 feet (2.1 to 2.7 meters).

General mounting advice:

- For best detection, locate the FA206B so that intruders move **across** detection coverage patterns, rather than toward or away from the sensor.
- The mounting surface should be solid and vibration-free.
- Check areas for potential sources of false alarms. Remember that the sensor responds to quick changes in heat patterns within its coverage pattern. Avoid locating it where it is exposed to direct or reflected sunlight, or to objects which can be heated quickly by sunlight. Do not place the FA206B facing windows. Don't place it near heating or cooling sources, like heater ducts or air conditioners, which might direct hot or cold air onto the sensor. Look for appliances such as space heaters which can rapidly heat up. Moving objects, such as ceiling fans are also potential sources of false alarms.
- Find out about normal use of the area. Are there pets? Might there be birds or rodents, for example, in a warehouse? Configure the FA206B accordingly.
- When the sensor might detect users who enter the protected area through a delayed door, program the sensor as a "Follower" device.
- Make end-users aware of the location of the FA206B and caution them about obstructing the coverage pattern when re-arranging furniture or stock.

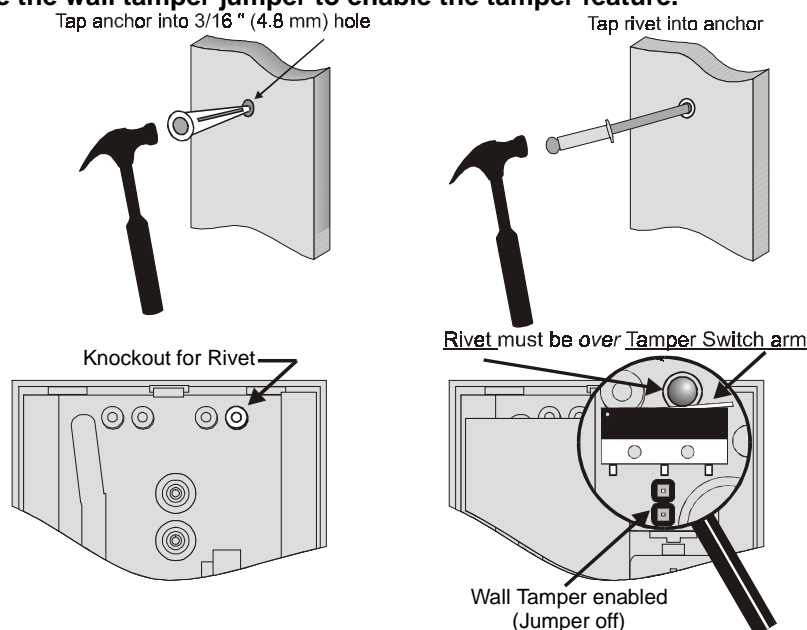
Mounting Instructions:

To mount the unit, first remove the cover by inserting a small screwdriver into the notch at the bottom of the cover and prying up.

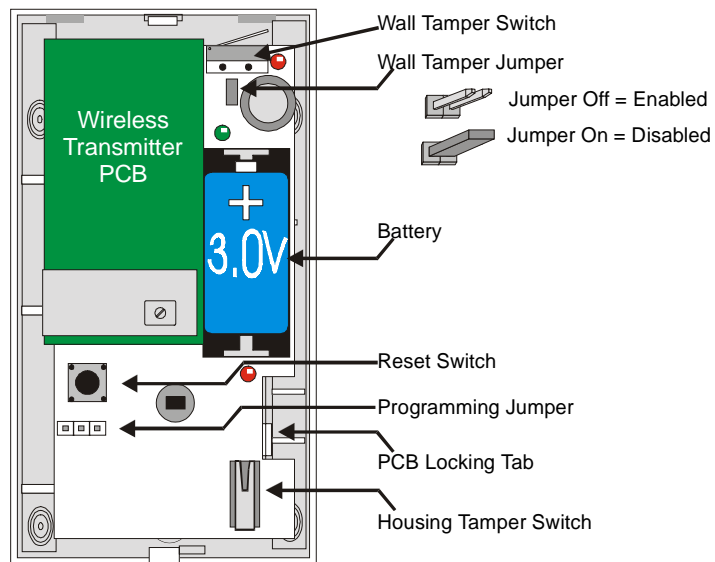


If using the **wall tamper** feature, install a wall anchor and rivet as shown below.
If not using the wall tamper, drill at mounting locations as indicated.

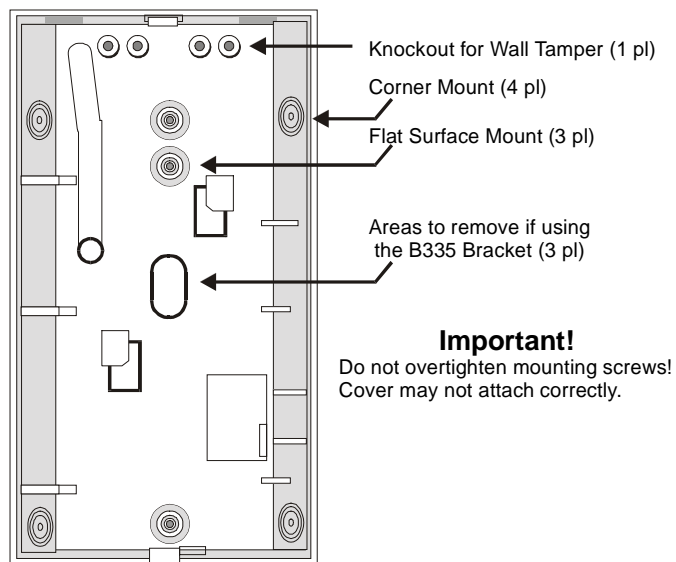
Important: remove the wall tamper jumper to enable the tamper feature.



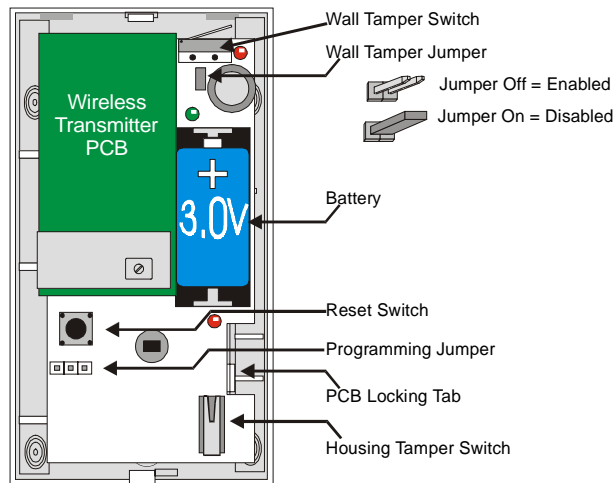
Next, remove the circuit board / mirror unit from the enclosure. Pull the PCB locking tab toward the side of the housing, then lift the board / mirror unit out of the enclosure.



For surface or corner mounting, drill two holes in the housing. Mark the location for the mounting screws, using the enclosure as a template. Pre-start the mounting screws. Firmly mount the detector. Replace the circuit board/mirror assembly.



Programming the FA206B:



Programming the transmitter:

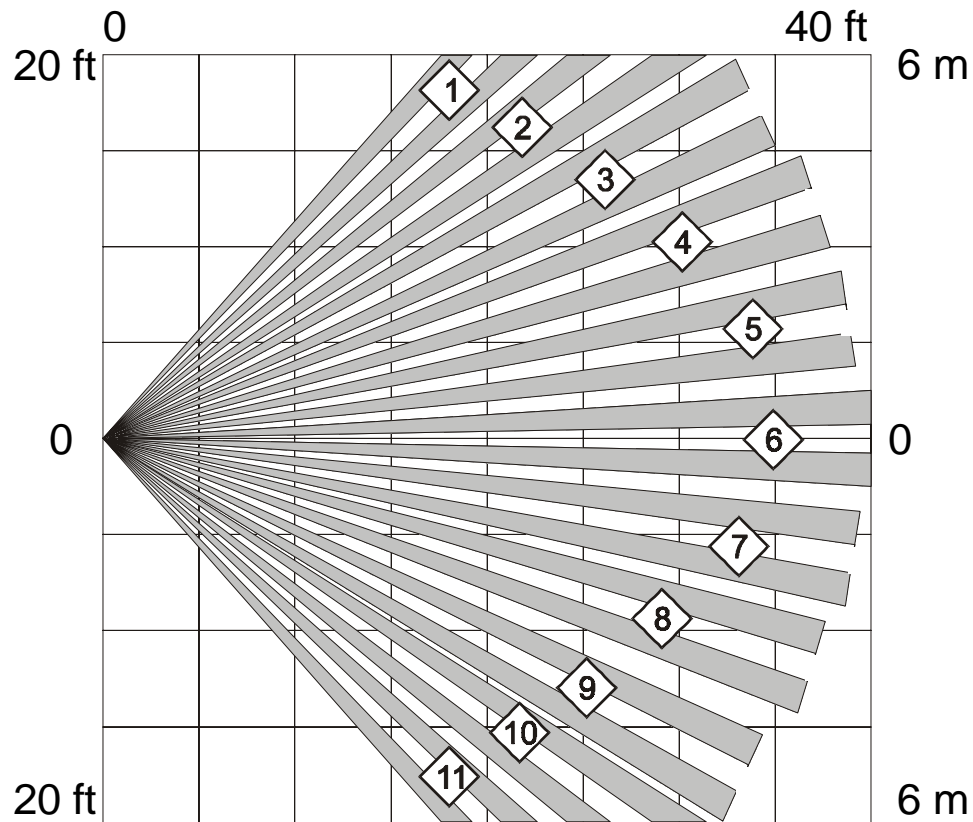
1. Remove the FA206B cover.
2. Insert battery as shown.
3. Enter programming mode for the programming device. Set options as desired. Program the FA206B as a Normally Closed (N/C) device.
4. Connect the programming cable between the transmitter and the programming device.
5. Press the transmitter reset button.
6. When programming is complete, disconnect the programming cable and replace the FA206B cover.

Note: The FA206B retains programming data in non-volatile memory. It does not require re-programming after loss of power. Install a new battery and press the reset button to re-initialize the transmitter and restore programming.

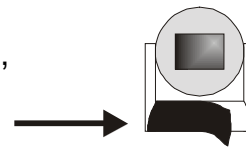
- Walk Test:** After the battery is installed, the unit requires a 3-minute stabilization period. The transmitter may be programmed during this time.
- The unit requires 2 seconds of quiet at the end of the stabilization period.
 - Pressing the reset button will send a tamper restoral even though the cover is off and the unit is in tamper. Pressing the tamper lever and then releasing it will cause a tamper transmission. This test will work during the 3-minute stabilization period.
 - Replace the cover. The unit will remain in walk test mode until it is left untripped for 90 seconds. The LED will flash rapidly as walk test mode ends. (If the device is retriggered while the LED is flashing, the unit will remain in walk test mode for another 90 seconds.)

IMPORTANT: Walk Test all motion sensors at installation and periodically thereafter.

Coverage patterns and Zone identification:



Look Down Zone: To enable, peel mask from Look Down lens.



	1	2	3	4	5	6	9	7	8	10	11	
12												22
23												33
34												44
45												55
56												66
67												77

RFU940U Lens
(Inside view)

If masking is required, refer to the Lens diagram and the corresponding zone identification data to show appropriate lens zones to be masked. Use opaque masking material, such as electrical tape.

Warranty & Disclaimer

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 twenty-four (24) 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 be given a Return Material Authorization ("RMA") Number by Inovonics. Details of shipment will be arranged at that time.

This warranty does not apply in cases of improper installation, misuse, failure to follow installation and operating instructions, alteration, abuse, 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, including any warranty of merchantability or fitness for a particular purpose. Inovonics will not be liable to anyone for any consequential or incidental damages for breach of this warranty or any other warranties.

This warranty will not be modified, varied or extended. Inovonics does not authorize any person to act on its behalf to modify, vary or extend this warranty. This warranty will apply to Inovonics Products only. All other products, accessories or attachments used in conjunction with Inovonics equipment, including batteries, will be covered solely by their own warranty, if any. 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.

This warranty does not warrant the replacement of batteries that are used to power Inovonics Products.

The User recognizes that a properly installed and maintained security system may only reduce the risk of events such as burglary, robbery, personal injury and fire. It does not insure or guarantee that there will be no death, personal damage and/or damage to property as a result. **Inovonics does not claim that the Product may not be compromised and/or circumvented, or that the Product will prevent any death, personal and/or bodily injury and/or damage to property resulting from burglary, robbery, fire or otherwise, or that the Product will in all cases provide adequate warning or protection.**

Inovonics shall have no liability for any death, injury or damage, however incurred, based on a claim that Inovonics Products failed to function. However, if Inovonics is held liable, directly or indirectly, for any loss or damage arising under this limited warranty or otherwise, regardless of cause or origin, Inovonics' maximum liability will not in any case exceed the purchase price of the Product, which will be fixed as liquidated damages and not as a penalty, and will be the complete and exclusive remedy against Inovonics.



Warning: The User should follow all installation, operation and maintenance instructions. The User is strongly advised to conduct Product and systems tests at least once each week. Changes in environmental conditions, electric or electronic disruptions and tampering, may cause the Product to not perform as expected.



Warning: Inovonics warrants its Product to the User. The User is responsible for exercising all due prudence and taking necessary precautions for the safety and protection of lives and property wherever Inovonics Products are installed. Inovonics strongly advises the User to program Products to be supervised whenever used in applications affecting life safety. Users are warned that unsupervised devices are subject to undetected failure due to malfunction, battery failure, tampering, or changes in environment.

Additional products from *Inovonics* include:

***Frequency Agile*® Receivers**

FA416	16-channel / 4-output
FA416D	16-channel / 4-output with display
FA464	64-channel / 16-output

***Frequency Agile*® Transmitters**

FA203(S/D)	pendant transmitter (Single or Double Button)
FA205(S/D)	beltclip transmitter (Single or Double Button)
FA204	pendant transmitter
FA206	Sharpshooter PIR transmitter
FA207	glassbreak detector transmitter
FA210(W)	universal transmitter (optional widegap)

FA206B PIR Detector Options

B335 Swivel Mounting Bracket

B338 Ceiling Mount Bracket

(Contact your Detection Systems dealer.)

Note: Use of brackets may decrease PIR range and increase dead zones.

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