FA206B Pet Friendly® PIR Detector

www.boschsecurity.com

BOSCH
Invented for life

- Reliable communication through 900 MHz spread spectrum technology with frequency hopping
- False alarm reduction through 56 bit communication protocol and advanced signal processing
- Fully supervised with transmitter check-in once per minute
- Pet Friendly®

Designed for residential and low-traffic commercial areas, the FA206B uses advanced signal processing to reduce false alarms. With Bosch Security Systems' Pet Friendly® pet immunity, the FA206B does not send an alarm for a dog up to 30 lb (13.6 kg), two cats, or numerous rodents.

Functions

Communication Reliability
Using a bandwidth of at least 10 MHz in the 900 MHz range with a frequency hopping technique that sends redundant messages across that bandwidth reduces interference and provides a greater range for more reliable communication. The shorter wavelength at 900 MHz allows signals to pass through narrow openings in both commercial and residential environments. The higher transmission power allowed by the Federal Communications Commission (FCC) for 900 MHz spread spectrum systems results in a longer open-field range than traditional 300 MHz products.

False Alarm Reduction
The 56 bit communication protocol eliminates lost or incorrectly decoded signals due to radio interference. Bosch's Pet Friendly® technology reduces false alarms caused by small animals.

Self-Testing
Once a minute the fully supervised transmitter sends signals to the receiver to test the system for low battery, tamper, and inactive status.

Certifications and approvals

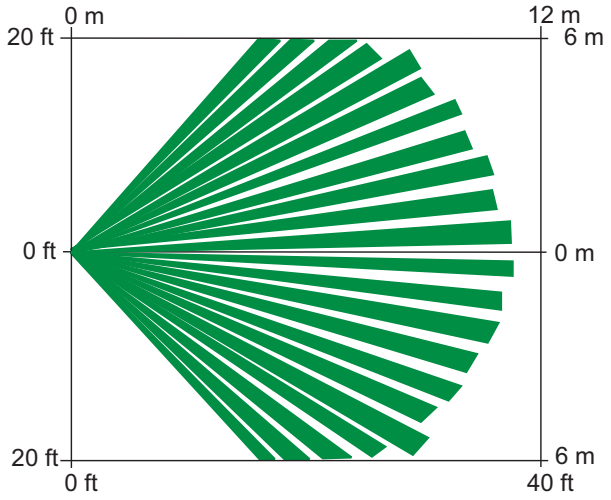
Complies with:	FCC Part 15

Installation/configuration notes

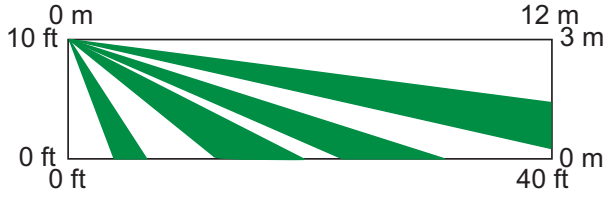
Compatibility Information

Receivers	FA400, FA404R, FA416R, FA422, when used with Bosch control panels.

Standard Coverage



Top View Broad: 12 m x 12 m (40 ft x 40 ft)



Side View Broad: 12 m x 12 m (40 ft x 40 ft)

Mounting Considerations

Surface or corner mount the FA206B using at least two screws and appropriate anchors as needed. It can also be mounted on the B335 Swivel Mounting Bracket or the B338 Ceiling Mount Bracket.

Notice

Using brackets can decrease the passive infrared (PIR) range and increase dead zones. The wall tamper feature cannot be used when the detector is mounted on a bracket or when corner mounted.

Parts included

Quantity	Component
1	PIR detector
1	Hardware pack
1	Literature pack

Technical specifications

Electrical

Batteries (Replacement):	Duracell® 123A
Current (PIR Only):	<25 µA nominal
Voltage (Operating):	2.5 VDC to 3.3 VDC provided by an internal 3 V battery

Mechanical

Detection Range:	12.2 m x 12.2 m (40 ft x 40 ft) with look-down zone
Dimensions:	11.4 cm x 6.4 cm x 4.1 cm (4.5 in. x 2.5 in. x 1.6 in.)
Mounting Height:	2.1 m to 2.7 m. (7 ft to 9 ft)
Alarm and Tamper Outputs:	Active state: high impedance tri-state. Inactive State: 1 mA Current sink (Vout Low) = 0.25 VDC at 1 mA
Output Time:	Alarm: 8 sec (4 sec in Walk Test Mode) Tamper: 4 sec minimum
Lockout Time:	Alarm: 3 min
Low Battery Signaling:	2.5 VDC recommended
Tamper Types:	Wall and cover

Environmental

Relative Humidity:	0% to 85% non-condensing
Temperature (Operating):	0°C to +49°C (+32°F to +120°F) with dynamic temperature compensation in the operating range.
Radio Frequency Interference (RFI) Immunity:	No alarm or setup on critical frequencies in the range of 26 MHz to 1 GHz for field strengths less than 30 V/m

Trademarks

Duracell® is a trademark owned or used by The Gillette Company or its affiliates.

Pet Friendly® is a registered trademark of Bosch Security Systems in the United States.

Ordering information

FA206B Pet Friendly® PIR Detector
Designed for residential and low-traffic commercial areas
Order number **FA206B**

Accessories

Swiveling B335-3 low-profile mount
Swiveling, low-profile, plastic mount for wall mounting. The vertical swivel range is +10° to -20°, while the horizontal swivel range is ±25°. Available in triple packs.
Order number **B335-3**

B338 Universal Ceiling-mount Bracket
Swiveling plastic mount for ceiling mounting. The vertical swivel range is +7° to -16°, while the horizontal swivel range is ±45°.
Order number **B338**

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