

Wireless PIR Motion Detector

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Invented for life



- ▶ ZigBee HA1.2 compliant
- ▶ First Step Processing (FSP), flexible mounting options, and temperature compensation
- ▶ Draft, insect, and pet and animal immunity
- ▶ Eight detection layers including look-down zones
- ▶ Externally-visible LED indicates test status

The Wireless PIR Motion Detector with ZigBee technology has a dense zone pattern with 79 zones in eight layers to provide superior catch performance. Ease of installation and flexible mounting options provide state-of-the-art detection every time.

Functions

First Step Processing

First Step Processing (FSP) allows virtually instant response to human targets without sacrificing false alarm immunity to other sources. By adjusting its sensitivity based upon signal amplitude, polarity, slope, and timing, FSP eliminates the need for the installer to select the sensitivity level for the application.

Pet and animal immunity

The detector is able to distinguish between signals caused by humans and signals caused by one or two animals with a combined total weight of 14 kg (31 lb). This provides resistance to false alarms while maintaining proper catch performance of human targets.

Draft and insect immunity

The sealed optical chamber reduces false alarms from drafts and insects.

Temperature compensation

Automatically monitors the ambient temperature and adjusts the signal processing to maintain proper catch performance in critical temperature ranges.

Home automation

ZigBee Home Automation 1.2 technology establishes a standard approach for wireless products worldwide. Home automation solutions can take advantage of a consistent wireless communication technology which offers unprecedented benefits in operational reliability, control, convenience, and security.

Certifications and approvals

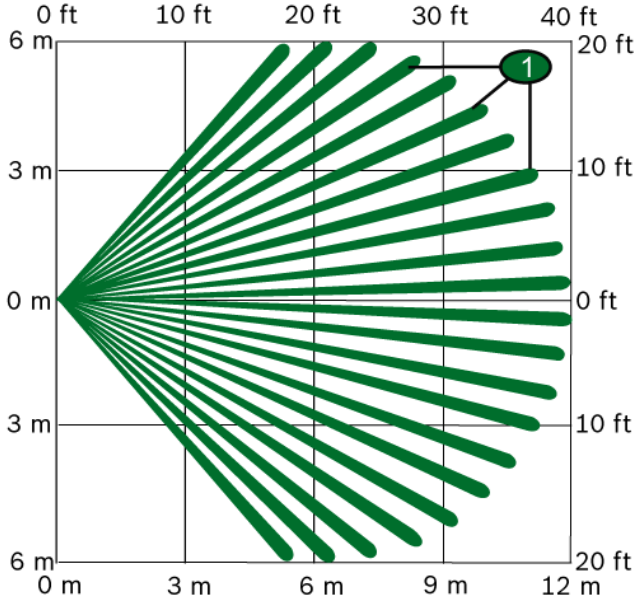
Region	Certification
USA	cETLus Intrusion-Detection Units, UL 639 8th Edition; Intrusion Detection Units, ULC-S306-03 2nd Edition
	Zigbee ZIG14014ZHA25633-24
	FCC T3X-ZIGB01
Canada	IC 1249A-ZIGB01

Installation/configuration notes

Compatibility information

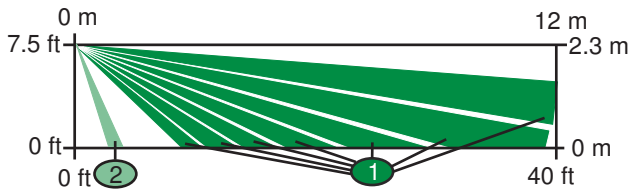
Compatible with ZigBee Home Automation 1.2 compliant systems.

Coverage patterns



Top view broad: 11 m x 11 m (35 ft x 35 ft)

1 PIR coverage pattern



Side view broad: 11 m x 11 m (35 ft x 35 ft)

1 PIR coverage pattern

2 Look-down zone

Mounting considerations



Notice

Installation on metal surfaces can affect the RF propagation pattern of the radio transceiver.

- Mount the detector so it is aimed where an intruder will most likely cross through the coverage pattern.
- Mount the detector on interior walls where it is protected from weather elements such as rain or snow.
- Mount the detector at any height between 2.3 m and 2.7 m (7.5 ft and 9 ft).
 - On a flat wall (surface mount)
 - On a flat wall with the optional B328 Gimbal-mount Bracket or B335 Swivel-mount Bracket
 - In the junction of two perpendicular walls (corner mount)

- On the ceiling with the optional B338 Ceiling-mount Bracket



Notice

The wall tamper cannot be used in corner mount installations or with optional mounting brackets.



Notice

The use of optional mounting brackets can reduce the detector's range and increase the dead zone areas.

- RF range depends on building construction and other factors.

Parts included

Quant.	Component
1	Wireless PIR detector
4	AA batteries
1	Hardware pack
1	Literature pack

Technical specifications

Environmental considerations

Environment	Indoor, dry
Relative humidity	Up to 95%, non-condensing
Temperature (operating)	0°C to +55°C (+32°F to +131°F)

Mechanical properties

Color	Bosch-white
Dimensions (H x W x D)	12.2 cm x 6.2 cm x 5.2 cm (4.8 in x 2.4 in x 2.1 in)

Power requirements

Battery life	6 years under normal operating conditions.
Battery requirements	Four AA Alkaline batteries
Recommended replacements	Duracell MN1500 or PC1500, Eveready E91, Panasonic AM-3PIX/B

Transmission and reception characteristics

Frequency	2.46 GHz
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Trademarks

All hardware and software product names used in this document are likely to be registered trademarks and must be treated accordingly.

Ordering information

Wireless PIR Motion Detector

Supports 79 zones in eight layers to provide superior catch performance.

Order number **ISW-ZPR1-WP13**

Accessories

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**

B328 Gimbal-mount Bracket

Mounts on a single-gang box and allows rotation of a detector. Wires are hidden inside.

Order number **B328**

B335-3 Swiveling 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**

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