The RADION PIR ZB Wireless Motion Detector uses two Fresnel lenses designed to produce sharply-focused images throughout the field of view providing superior detection of intruders. The main lens provides a high density (77 zone) 7-layer pattern, and the selectable lookdown lens provides an additional three lookdown zones. Easy installation and flexible mounting height provides state-of-the-art detection while minimizing installation time and complexity. Pet Friendly intelligence generates alarm signals for human intruders without generating false alarm signals from pets.

**Functions**

**ZigBee technology**
This motion detector utilizes ZigBee technology, a global wireless standard for communicating to both smart devices and security systems in a home automation environment. This ZigBee Certified product works in global 2.4 GHz networks supporting ZigBee HA1.2.

- Passive Infrared Detection (PIR) with First Step Processing for superior catch performance and best-in-class false alarm immunity
- Pet Friendly – resists false alarms from animals up to 20 kg (45 lbs)
- Flexible mounting height, no adjustments – reduces installation time and false alarms, improves catch performance
- Self-locking enclosure with bi-axial bubble level for faster installation
- Up to 7 years battery life with 1 battery, or up to 10 years with optional second battery

**ZigBee Certified product**

**Home automation**
ZigBee Home Automation wireless technology offers a standard approach for connecting a variety of compliant devices throughout a residential or commercial property. ZigBee technology uses a reliable mesh network that keeps devices connected and working together, while offering outstanding battery life. ZigBee wireless home automation systems seamlessly connect security with home operational and control devices offering the property owner both convenience and peace of mind.
First Step Processing
First Step Processing (FSP) almost instantly responds to human targets without producing false alarms from other sources. FSP adjusts the detector’s sensitivity based on signal amplitude, polarity, slope, and timing. This eliminates the need for the installer to select the sensitivity level, thus improving ease of installation and reliability.

Pet-Friendly
The installer can turn pet immunity on or off based upon application requirements. When pet immunity is turned off, the detector increases sensitivity by approximately 20%, for applications that require higher levels of catch performance. When pet immunity is turned on, the detector can distinguish between signals caused by humans and signals caused by pets. It ignores signals caused by one or two pets up to 20 kg (45 lb) or numerous rodents.

Dynamic Temperature Compensation
This feature automatically monitors the ambient temperature and adjusts the signal processing to maintain proper catch performance in critical temperature ranges.

Active White Light Suppression
An internal light sensor measures the level of light intensity directed at the face of the detector. Advanced signal processing uses this information to eliminate false alarms from bright light sources.

Sealed Optics and Electronics
The optics and electronics are assembled into the front enclosure and sealed with a protective cover to prevent damage during installation. The sealed optical chamber also prevents drafts and insects from affecting the detector.

Wall-to-Wall Coverage
An improved lookdown zone and coverage range of 12 m x 12 m (40 ft x 40 ft) provide wall-to-wall coverage.

Self-locking Enclosure
The sliding self-locking enclosure enables faster, easier installation.

Removable mounting bubble level
Mounting the detector is easy to do when you use the integrated bi-axial bubble level to align the detector base to the contours of your wall. Use the bubble level when installing on flat surfaces. Remove the bubble level and insert into the specifically designed bubble level holder when installing onto an optional swivel mounting bracket to ensure proper vertical leveling of the detector.

Extended battery life
The motion detector utilizes a dual-battery compartment allowing for additional battery life by using an optional 2nd lithium battery. To preserve battery life, LED and alarm indications are visible and transmitted only after 3 minutes have passed since the previous alarm restoral. Note that the LED is only visible when the LED switch is set to on.

Test Features
Externally visible alarm LED can be disabled after installation to maximize battery life. The LED also may be enabled for customer peace of mind to show LED activation in the event of motion detection. Note that leaving the LED on will reduce battery life by approximately 6 months.

Certifications and approvals

<table>
<thead>
<tr>
<th>Region</th>
<th>Agency</th>
<th>Certificate</th>
</tr>
</thead>
<tbody>
<tr>
<td>US and Canada</td>
<td>*cETLus</td>
<td>Control No.31707912 Conforms to ANSI/UL Std. 639</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Conforms to ULC Std. S306-03</td>
</tr>
<tr>
<td>*FCC</td>
<td></td>
<td>FCC Part 15 Class B</td>
</tr>
<tr>
<td>*IC</td>
<td></td>
<td>RSS247, issue 1 Cert No: 1249A-PRZB</td>
</tr>
<tr>
<td>ZigBee</td>
<td></td>
<td>ZigBee HA 1.2 Cert No. ZIG16055ZHA25779-24</td>
</tr>
</tbody>
</table>

*ONLY for models RRPR-ZB and RFPR-ZB-MS

Installation/configuration notes

Compatibility information
Compatible with ZigBee Home Automation 1.2 compliant systems.
Coverage patterns

- Mount the motion detector between 2.3 m and 2.7 m (7.5 ft and 9 ft).
  - On a flat wall (surface mount).
  - In the junction of two perpendicular walls (corner mount).
  - On a flat wall with the optional B335-3 Swivel-mount Bracket.
  - On the ceiling with the optional B338 Ceiling-mount Bracket.
- Lower mounting heights generally increase catch performance. Higher mounting heights increase false alarm immunity.

Notice
The use of optional mounting brackets can reduce the detector’s range and increase the dead zone areas. Mount the motion detector level vertically to ensure optimal performance.

Technical specifications

Mechanical

| Dimensions | 2.4 in x 4.3 in x 1.7 in (60 mm x 108 mm x 42 mm) |

Environmental considerations

| Relative humidity | 0% to 93% at +40°C (+104°F) UL: 0% to 85% at +30°C (+86°F) |
| Temperature (operating) | -10°C to +55°C (+14°F to +131°F) UL: 0°C to +49°C (+32°F to +120°F) |
| Mounting considerations | Mount in dry indoor locations. |
| Mounting height | 7.5 ft to 9 ft (2.3 m to 2.7 m) |
| Frequency | ZigBee: 2.4 GHz |
| Pet immunity | Enable or disable |

Power requirements

| Batteries | Panasonic CR123A Lithium 3 VDC Duracell DL123A Lithium 3 VDC Sanyo CR123A Lithium 3 VDC |
| Battery life | Up to 7 years using one battery. Up to 10 years using two batteries |
| Battery capacity | 1400 mAh (minimum) |

Notice
Do not mix between old batteries and new batteries.
**Ordering information**

**RFPR-ZB RADION PIR ZB Motion Detector**
ZigBee certified motion detector with pet-friendly technology. Provides PIR, 12 m x 12 m (40 ft x 40 ft) coverage. For use with compatible ZigBee systems in North America, South America, Australia, and Asia-Pacific region.
Order number RFPR-ZB

**RFPR-ZB-MS RADION PIR ZB Motion Detector (compatible with iControl ecosystems)**
ZigBee certified motion detector with pet-friendly technology. Provides PIR, 12 m x 12 m (40 ft x 40 ft) coverage. For use with iControl systems in North America, South America, Australia, and Asia-Pacific region.
Order number RFPR-ZB-MS

**Accessories**

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

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