

# ZWAVE Plus Pet Immune Passive Infrared Motion Detector

## Overview

Ecolink's ZWAVE Plus PIR motion detector uses an advanced detection algorithm to analyze heat signature movement across focal points produced by a precision Fresnel lens. The detector properly discriminates between false signals like pets, and valid human signatures to produce highly reliable performance.

## Standard Features

- Simple installation with mounting plates.
- Settings to create immunity to pets up to 55 lbs.
- Power saving operation provides up to 5 years of battery life with CR123A battery.
- Great for automation triggers or security detection.

Reliable detection with false-free protection.



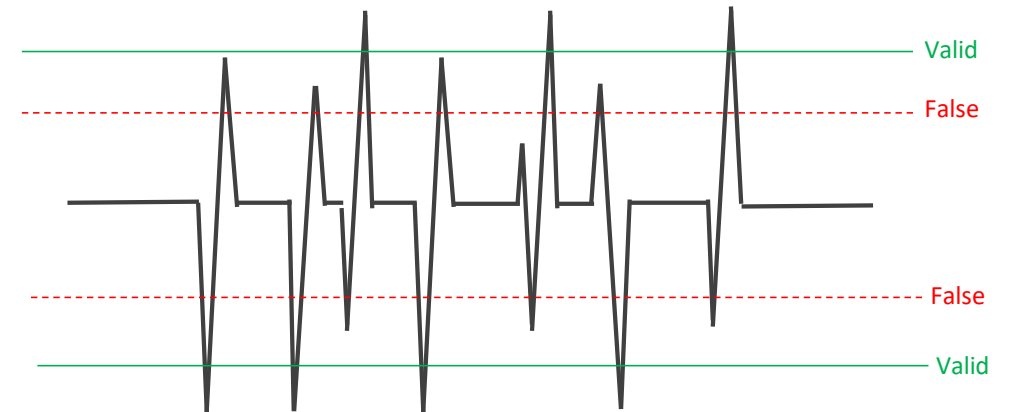
In an effort to ensure you have a first-rate experience with our Z-Wave Plus PIR Motion Detector, look closely at the following information.

**Ecolink** Pet immune, passive infrared motion detection is a stable technology when applied properly. While performance can vary in the vast number of environments, understanding the technology will serve to help you apply the product properly and improve performance for your application.

### MOTION DETECTION:

The Ecolink Motion Detector will trigger based on a change in infrared energy in the space it is monitoring. A sophisticated algorithm seeks a precise threshold of infrared energy to produce a valid detection signal.

There are variables to consider when choosing and installing the detector that will ensure the detection algorithm can do its job effectively.



## Ecolink Pet immune, passive infrared motion detector application information

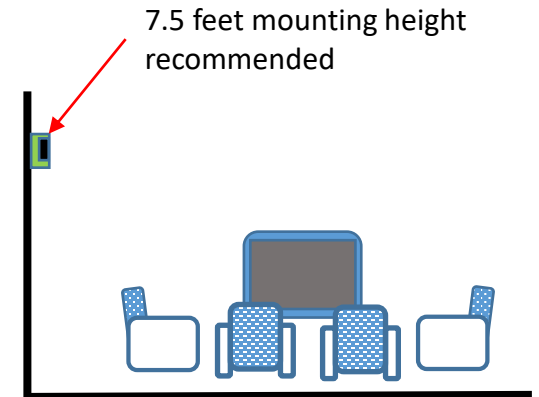
### DETECTOR APPLICATIONS:

**IMPORTANT:** Follow mounting height requirements exactly! Being below 6.5 feet or above 7.5 feet will negatively affect performance. Mounting at 7.5 feet is recommended.

**Ideal applications** - The Ecolink Z-Wave Plus Pet Immune PIR Motion Detector is designed to work best when it is corner mounted at 7.5' and providing area coverage in large rooms like living rooms, dining rooms, or kitchens in homes with medium or small pets. Of course, having no pets is fine as well. Corner mounting takes advantage of the full capability of the wide coverage pattern and may provide quicker capture. The motion sensor is also better at detecting side-to-side motion when mounted in a corner.

**Acceptable applications** – Flat wall mounted and smaller rooms. Multiple pets of varying medium or small size. Flat wall mounting may produce gaps in coverage, mainly on the sides of the detector.

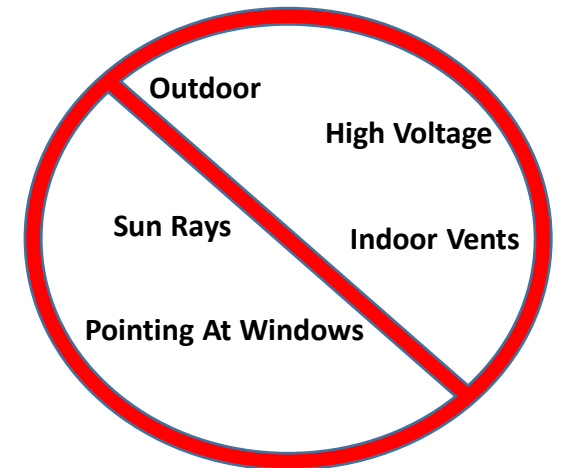
**Challenging applications** – Hallways, above doors in an attempt to capture room entry. Because the detector is looking for signals in different focal zone points to indicate movement, moving straight away or straight toward a detector may not provide the focal zone point changes the detector needs to create capture. The focal points are linear in nature. Angling the detector slightly may provide improved capture performance but only thorough walk testing will tell you for sure.



## DETECTOR APPLICATIONS:

### Applications to avoid entirely:

- Not for outdoor use.
- Do not install near a/c or heating vents. Vents produce major changes in IR signatures and may cause false signals. Attempt to mount the detector at least 10 feet from a vent.
- Avoid pointing detector directly at nearby windows. Drafts and sun rays may produce false signals.
- Avoid mounting detector where sun rays may strike the detector.
- Avoid placement of detector near 110V or higher electrical lines. It may obstruct the wireless signals.

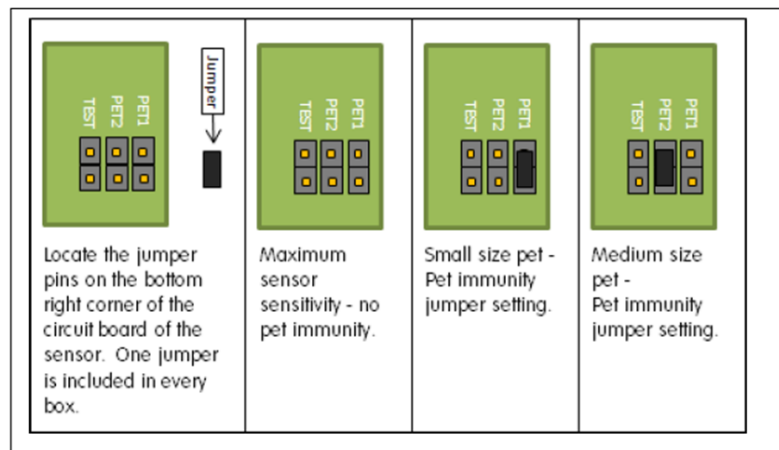


**Ecolink** Pet immune, passive infrared motion detector is seeking an infrared energy signature matching a human signature range in one or more focal point zones of the detection pattern created by the Fresnel lens.

## CONSIDERATIONS FOR CAPTURE SENSITIVITY:

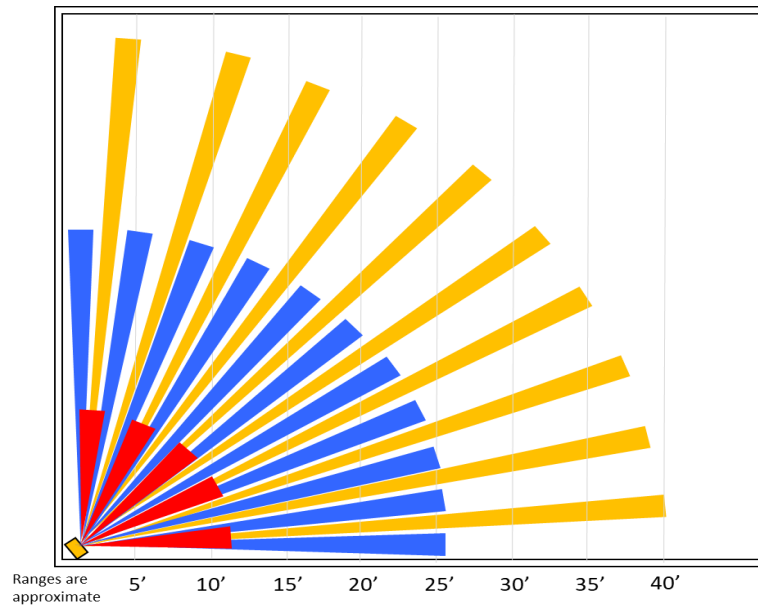
### Sensitivity Settings:

- **Lowest sensitivity** = Medium Pet mode, Jumper on “PET2” – In this mode, the detector requires a higher and more prevalent amount of infrared energy for capture, thereby ignoring the energy emitted by a pet of medium size.
- **Middle sensitivity** = Small Pet mode, Jumper on “PET1” – In this mode, the detector requires a medium level of infrared energy for capture, thereby ignoring the energy emitted by a pet of small size.
- **High sensitivity** = No Pet mode, no jumper – In this mode, the detector requires a lower level of infrared energy for capture.

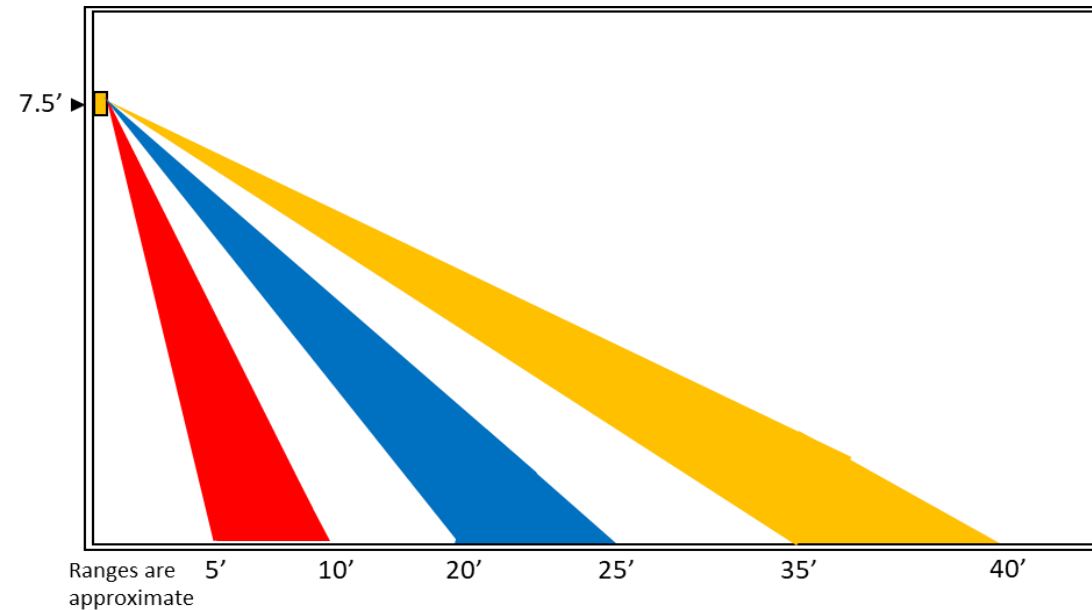


**Ecolink** Pet immune, passive infrared motion detector's focal point pattern is created by the Fresnel lens. Mounting height and location has an effect on the pattern. The detector is "passive". Nothing is emitted from the detector.

Overhead View



Side View



Ranges are approximate. Walk Test to verify range