

Motion Sensor (Long Range)

(VS-ZWPIR01-001)

Quick Reference

The Vivint Passive Infrared Motion Sensor (Long Range) is a wall-mounted wireless device that provides wide-angle motion detection as part of the overall Vivint security system. The sensor device can be mounted on a flat wall or in a corner.

When set to high sensitivity, the motion sensor has a maximum protection area of 32 feet (9.8 m) deep by 40 feet (12.2 m) wide. For best coverage possible, mount the sensor so that the most likely direction of intruder motion is *across* the protected area.

The motion sensor is tamper-protected; it will transmit a signal to the control panel/hub if the cover is taken off or if the device is removed from its mounting location. It also provides false alarm protection by being pet immune for animals up to 80 pounds (36.3 kg). For more information, see the "Settings for Pet Immunity" section below.

This document includes a product description, installation and test instructions, illustrations, basic operation / user functionality, as well as technical specifications, standards listings, and regulatory compliance references.



Installation Instructions

The motion sensor can be installed on a flat wall or in a 90-degree corner.

To install the sensor, follow these steps:

- Attach the back mounting plate to the wall 7.5 feet (2.3 m) above the floor with the arrows pointing up.
NOTE: To mount on a flat wall, secure the back plate by using the two provided screws in the center holes. To mount in a corner, secure the back plate by using the two screws in the side holes.
- Secure the sensor on to the back plate by sliding it down until it clicks into place.

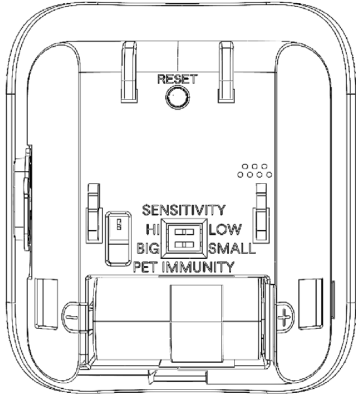
INSTALLATION TIPS:

- Mount so that the likely direction of intruder motion is *across* the protected area.
- Use **High** sensitivity when it is anticipated an intruder may only cover a small portion of the protected area.
- Low** sensitivity is recommended for settings with pets when intruders are expected to cover a larger portion of the protected area.
- Do not install where the detector is exposed to direct sunlight or above strong sources of heat.
- Ensure the detection area does not have obstructions (curtains, screens, large pieces of furniture, plants, etc.) that may block the coverage pattern.
- Avoid mounting locations that contain objects likely to produce a rapid change in temperature such as central heating, ducts, open flames, etc.
- If mounting in a hallway, the best location is at the end of the hallway in a corner facing directly down the hallway (not at the typical 45-degree angle).
- If pet immunity is desired, mount where animals cannot come within six feet of the detectors by climbing on furniture or other objects. Also, do not aim the detector at a stairway or furniture or other objects that can be climbed by an animal.

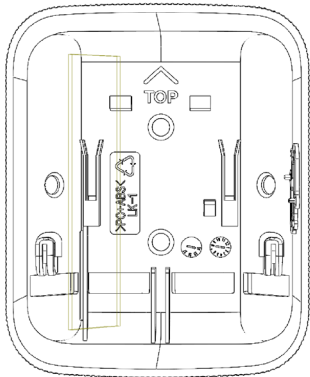
Installer / User Test

- Press and hold the test button on the side of the sensor device. The red LED should turn on as soon as the button is pressed. After 2 seconds, the red LED will blink once to indicate the device has entered test mode.
- The red LED will briefly turn on every few seconds that motion is detected. The sensor will also transmit to the control panel/hub while motion is detected. **NOTE:** Test mode lasts for 90 seconds, after which the device returns to normal operation.

Motion Sensor (back view open) —



Back Mounting Plate (inside view) —



Technical / Hardware Specifications

Vivint Part Number (P/N)	VS-ZWPIR01-001
Model Number (M/N)	MD02
Wireless Signal Range	350 feet (106.7 m), open air
Battery	2 X Panasonic CR123A (or equivalent lithium batteries)
Battery Life	3-5 years under normal usage
System Communication / Transmitter	Z-Wave Long Range (LR); Z-Wave Classic
Code Outputs	Alarm, Alarm Restore, Supervisory, Low Battery, Tamper
Supervisory Interval	70 minutes per signal (12 hours for panel/hub to report supervision failure)
Operating Temp. Limits	32° to 120°F (0° to 49°C)
Relative Humidity	5-95% Non-Condensing

Standards Certifications and Listings

Conforms to UL 639	Standard for Intrusion Detection Units
FCC ID	2AAAS-MD02

*For complete regulatory compliance information, go to: vivint.com/fcc.



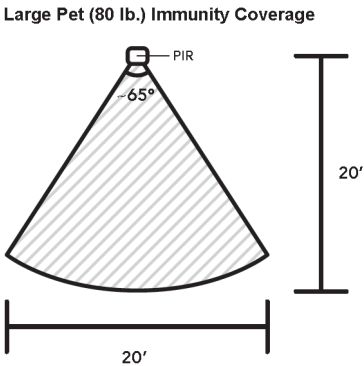
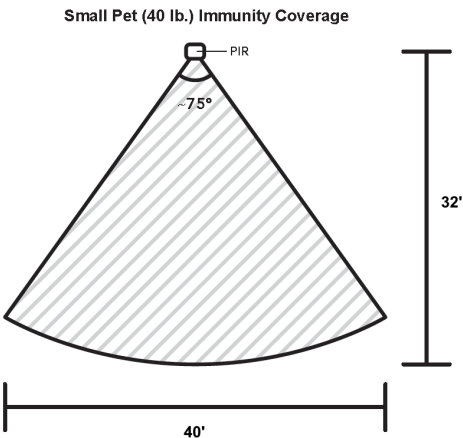
Settings for Pet Immunity

Small Pet Immunity:
Used where small animals may be present in the monitored area while the system is armed. Do not use this setting if any given animal weighs more than 40 pounds (18.1 kg). On this setting, the coverage area is 32 feet (9.8 m) deep by 40 feet (12.2 m) wide. **NOTE:** Set the jumper to small pet icon.

Large Pet Immunity:
Used in environments where larger animals may be present. This setting is generally acceptable for animals up to 80 pounds (36.3 kg). On this setting, the coverage area is 20 feet (6.1 m) wide by 20 feet (6.1 m) deep. (Note: Set the jumper to the large pet icon.)

- NOTE:** Many factors can influence pet immunity capabilities:
- Short-haired animals generally put off more heat causing the detector to alarm easier than it would with a longer-haired animal.
 - If animals jump onto a piece of furniture or climb stairs it may cause the detector to believe the animal is larger than it really is.
 - If multiple animals are close together the sensor may see them as one large animal.

Sensitivity Settings:
High — recommended when a possible intruder is expected to cover only a small portion of the protected area. (Set the jumper to **HI**.)
Low — recommended when a possible intruder is expected to cover a larger portion of the protected area, and/or to help reduce false alarms when pets are present. (Set the jumper to **LO**.)



Battery Installation

If the battery is low, a low battery notification will be indicated on the panel. Use only the recommended replacement batteries (see Specifications). To replace the batteries:

1. Slide the main body of the sensor up off the back plate (part A).
2. Pull battery ribbon to remove batteries.
3. Insert the replacement batteries while observing the correct polarity. Ensure the battery ribbon runs up underneath the batteries so they can easily be removed.

WARNING! The polarity of the battery must be observed (as shown in the image). Improper handling of lithium batteries may result in heat generation, explosion, or fire, which may lead to personal injury. Replace only with the same or equivalent battery type as recommended by the manufacturer.

AVERTISSEMENT! La polarité de la batterie doit être observée (comme indiqué dans l'image). Une mauvaise manipulation des piles au lithium peut conduire à la production de chaleur, une explosion ou un incendie, ce qui peut entraîner des blessures. Remplacez-le par le même type ou équivalent de la batterie tel que recommandé par le fabricant.

Batteries must not be recharged, disassembled or disposed of in fire. Disposal of used batteries must be made in accordance with the waste recovery and recycling regulations in your area. Keep away from small children. If batteries are swallowed, promptly see a doctor.

Wireless Product Notice

Wireless communications hardware provides reliable communication; however, there are some limitations which must be observed.

- The transmitters are required to comply with all applicable wireless rules and regulations. As such, they have limited transmitter power and limited range.
- Wireless signals may be blocked by radio signals that occur on or near the wireless operating frequencies.

FCC Regulatory Compliance Declaration*

CAUTION! Unauthorized changes or modifications could void the user’s authority to operate the equipment.

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules and Industry Canada license-exempt RSS standard(s).

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation of the device.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

FCC (U.S.) Radiation Exposure Statement: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm (7.9 in) between the radiator and your body.