RF-EV1012PI-K4

Wireless PIR 12m PI 433-80plus

One way transmitter

The sensor has a chip tuned wireless transmitter that communicates with a 80plus receiver as, for example, used in the ZeroWire control panel.
The learn-in process of the sensor is identical to the process used with legacy sensors.
Each sensor reports a unique ID code with each transmission.
The sensor also reports the battery and transmitter condition (supervisory signal) to the panel every 18 minutes.

Mirror power

The patented optical mirror technology gives the advantage of gliding focus, which creates a volumetric detection curtain from floor level up to installation height resulting in a sensor that never loses track of the object.
The PI optical mirror is specially designed to ignore pets moving around on the floor without compromising detection performance for humans
In these series we are using a dual element digital pyro generating two volumetric curtains for each of the nine curtain sets.

5D signal processing

The unique 5D signal processing technology will look for a match in shape, size, speed, duration and environment to decide on an alarm condition.
The result is a unique combination of high detection sensitivity with high false alarm immunity.

Ease and flexibility of installation

1.Easy opening and closing system.
2.Easy access when changing the batteries.
3.Easy access to the mirror optics.
4.Tolerates wall angle deviation and different mounting heights.
5.Limited loss of coverage when objects are placed in the field of the PIR vision.
6. One mounting plate for all sensors in the series.

Other members of the family

This family includes motion sensors with variants in detection ranges and a Pet Immune variant.
The consistent family aesthetics between the various models ensure a professional approach when installing different sensor types.



Details

- Proven mirror optics inside to get a dense coverage pattern
- Selectable coverage pattern using mirror masks
- Full under crawl detection
- "5D" signal processing for false alarm immunity
- Auto focus with constant range sensitivity
- No adjustment required for different mounting heights
- Tolerates wall angle deviation
- End-user friendly product design for exchanging batteries
- 5-years battery life with 1 battery
- PetImmune functionality
- Holding several security approvals

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Technical specifications

General

Technology	PIR
Application type	Wall mount
Anti masking	No
Pet immune	Yes
Camera	No
Detector start-up time	1 min

Detection

Max. detection range	12 m
Detection range selection	6 m or 12 m
No. of curtains	9
Coverage (field of view)	86°
Target speed range	0.3 m/s to 3.0 m/s

Wired / wireless

Wired / wireless	Wireless
Wireless frequency	433 MHz LoNa
Open-air range	300 m

Electrical

Current consumption	22 µA (avg.), 50 mA (max.)
Batteries	1 x CR123 (3.0 V, 1300 mAh lithium)
Battery lifetime	5 years

Physical

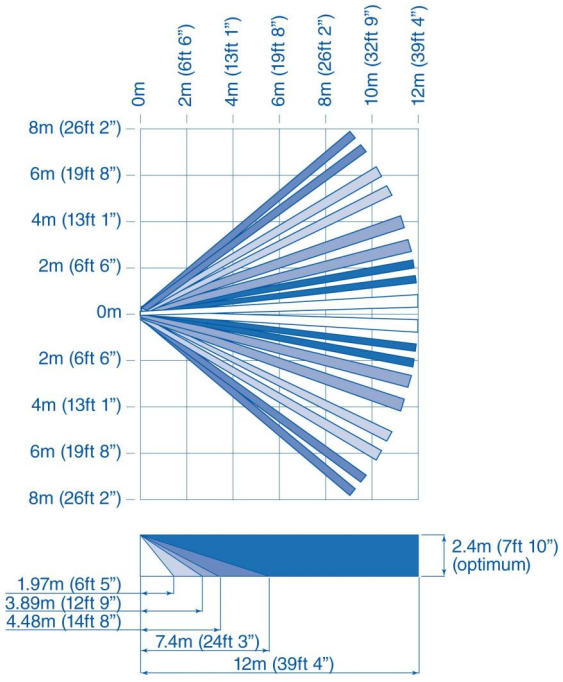
Physical dimensions	130 x 69 x 53 mm (L x W x H)
Net weight	146 g (incl. 1 battery)
Mounting height	2.3 to 3 m

Environmental

Operating temperature	-10° to +55° C
Relative humidity	95% max. noncondensing
Environment	Indoor
IP rating	IP30 / IK02

Regulatory

EN50131 Grade	Grade 2



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