RF-EV1012PI-K4

Wireless PIR 12 m PI 433-80plus

OVERVIEW

The sensor has a chip tuned wireless transmitter that communicates with a LoNa receiver. 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. In this 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 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 mirror optics.
4. Tolerates wall angle deviation and different mounting heights
5. One mounting plate for all sensors

OTHER MEMBERS OF THE FAMILY

This family includes a standard variant as well as a Pet Immune variant. The consistent family aesthetics between the various models ensure a professional approach when installing a different sensor type.

FEATURES

*   Proven mirror optics inside that achieve 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
*   Pet immune 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 minute

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 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. condensing
Environment	Indoor
IP rating	IP30; IK02

Regulatory	
Compliance	CE, RCM

RF-EV1012PI-K4-DS