

# RF-EV1012-K4

## Wireless PIR 12m 433-80plus

### One way transmitter

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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

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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 these series we are using a dual element digital pyro generating two volumetric curtains for each of the nine curtain sets.

### 5D signal processing

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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

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- 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.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

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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

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- 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
- Holding several security approvals

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### Technical specifications

#### General

Technology	PIR
Anti masking	No
Pet immune	No
Camera	No
Detector start-up time	1 min

#### Detection

Max. detection range	12 m
Detection range selection	6 m or 12 m
Coverage (field of view)	86°
No. of curtains	9
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.), 50mA (max.)
Batteries	1 x CR123 (3.0 V, 1300 mAh lithium)
Battery lifetime	5 years

#### Physical

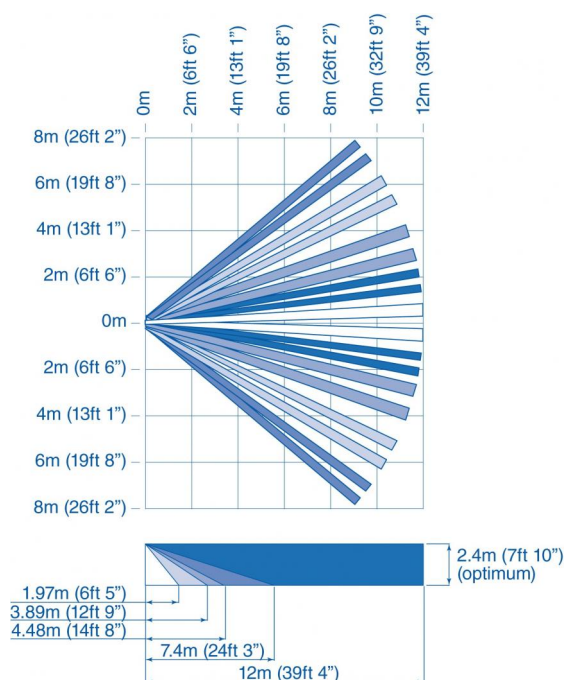
Physical dimensions	130 x 69 x 53 mm (L x W x H)
Net weight	146 g (incl. 1 battery)
Mounting height	1.8 to 3 m

#### Environmental

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

#### Standards & regulation

EN50131 grade	Grade 2
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