UTC Fire & Security
A United Technologies Company

RF-EV1012-K4

Wireless PIR 12m 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.
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 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.

Standard Features

- 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
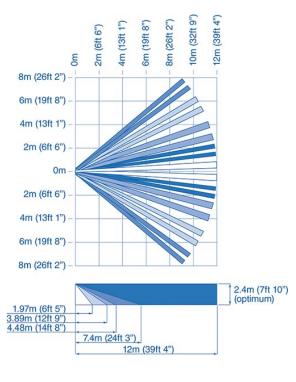- Holding several security approvals

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Specifications

Detection technology	PIR (9 curtains, 86° viewing angle)
Detection modes	standard 3D or bi-curtain
Target speed range	0.3 m/s to 3 m/s
Detectable range	6 or 12 m
Mounting height	1.8 m to 3.0 m
Operating frequency	433.65 MHz
Protocol	433-80plus
Power output	< 10 dBm
RF range (open air / obstructed), typical	300 m / 40 m
Detector start-up time	1 min
Supervisory interval	18 min
Lockout timer	3 min
Battery type	1 x CR123 (3.0 V, 1300 mAh lithium)
Battery life (typical with 1 battery)	5 years
Current consumption	22 µA (avg.), 50 mA (max.)
Operating temperature	-10° to +55° C
Relative humidity	95% max. noncondensing
IP/IK rating	IP 30 IK02
Dimensions (LxWxH)	130 x 69 x 53 mm
Weight (incl. 1 battery)	146 g

Ordering Information

Part No.	Description
RF-EV1012-K4	Wireless PIR 12m 433-80plus
RF-EV1012PI-K4	Wireless PIR 12m PI 433-80plus
RF-EV1016-K4	Wireless PIR 16m 433-80plus

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