

# RF4112I4

## Wireless dual technology motion sensor, 12 m, 433-63 Mhz

### One way transmitter

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The sensor has a chip tuned wireless transmitter that communicates with a legacy 433 receiver such as, for example the ATS1230. 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.

### Range Gated Radar Technology

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This series of wireless motion sensors incorporate a Carrier Fire & Security unique range gated radar technology allowing the installer to define a clear borderline of the radar range as the radar is used to measure distance between the sensor and moving objects. Effectively the end-user will get rid of any nuisance alarms generated by movements outside the detection range. Every motion sensor comes with four possible radar ranges selectable via jumpers allowing the detection range to be tailored according to the room where the motion sensor is installed.

The radar operates on 5.8GHz frequency and will not interfere with any WiFi network.

### PIR combined with mirror power

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The 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.

### Detection technologies working together

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These dual tech motion sensors generate an alarm depending on what both technologies – range gated radar and PIR – saw within their detection coverage.

But our dual tech go beyond a simple “AND” function : it classifies the signals from each technology – range gated radar and PIR – to have the best alarm result without being sensitive for nuisance signal sources. This technology creates a uniform sensitivity in all course directions.

### 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.One mounting plate for all sensors in the series.

### Other members of the family

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This family includes a standard variant as well as a Pet Immune variant.



### Details

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- Selectable range gated radar technology clearly defining the radar detection border
- PIR technology with mirror curtain optics
- Intelligent alarm decision based on signal classification of the PIR and radar alarm
- Full under-crawl detection
- No adjustment required for different mounting heights
- Tolerates wall angle deviation
- End-user friendly product design for exchanging batteries
- 3-years battery life with 2 batteries

The consistent family aesthetics between the various models ensure a professional approach when installing different sensor types.

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## Technical specifications

### Generale

Tecnologia	Doppia tecnologia
Tipo di applicazione	Wall mount
Antimascheramento	No
Immune ad animali	No
Telecamera	No
Kit antirimozione	A bordo
Tempo di avvio del rivelatore	1 minute

### Campo di rilevamento

Campo massimo di rilevamento	12 m
Selezione dell'intervallo di rilevamento	4, 6, 9 and 12 m
Numero di tende	9
Copertura (campo visivo)	86°
Frequenza microonda (nom.)	5.8 GHz
Max. uscita a microonde (a 1m)	< -1.3 dBm
Protezione antistrisciamento	Yes
Velocità obiettivo	0.3 m/s to 3 m/s

### Cablato/senza fili

Cablaggio-wireless	Senza fili
Frequenza Wireless	433MHz
Portata in campo libero	300 m

### Elettrico

Consumo attuale	58 µA (average), 50 mA (max.)
Batterie	2 x 3.0 V (1300 mAh lithium)
Durata della batteria	3 anni

### Fisico

Dimensioni fisiche	130 x 69 x 53 mm
Peso netto	176 g (including two batteries)
Colore	Bianco
Altezza di montaggio	1.8 to 3 m

### Ambientale

Temperatura operativa	-10 to 55° C
Umidità relativa	95% max. condensing
Ambiente	Interno
IP rating	IP30 / IK02



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