RF-DD1012-K4

wireless dual technology motion sensor, 12m LoNa

One way transmitter

The sensor has a chip tuned wireless transmitter that communicates with a LoNa receiver such as, for example 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.

Range Gated Radar Technology

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

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

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

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

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 different sensor types.



Détails

- 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
- Several European security approvals

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Spécifications techniques

Général

Technologie	Dual
Type d'application	Fixation murale
Anti-masquage	Non
Insensible aux animaux	Non
Caméra	Non
Kit levier d'arrêt anti-ouverture	On board
Temps mise en route du détecteur	1 minute

Détection

Plage de détection maximale	12 m
Sélection de la plage de détection	4, 6, 9 and 12 m
Nbre de rideaux	9
Couverture (champ de vision)	86°
Hyperfréquence (nom.)	5.8 GHz
Sortie Max. d'onde (à 1m)	< -1.3 dBm
Protection sous-jacente	Oui
Plage de vitesse cible	0.3 m/s to 3 m/s

Filaire / sans fil

Filaire / sans fil	Sans fil
Fréquence radio	433 MHz LoNa
Gamme en champs libre	300 m

Électrique

Consommation de courant	58 µA (average), 50 mA (max.)
Batteries	2 x 3.0 V (1300 mAh lithium)
Durée de vie de la batterie	3 years

Caractéristiques physiques

Dimensions physiques	130 x 69 x 53 mm
Poids net	176 g (including two batteries)
Couleur	Blanc
Hauteur de montage	1.8 to 3 m, EN 2.3 to 2.6 m

Environnement

Température de fonctionnement	-10°C to +55° C
Humidité relative	95% max. condensing
Environnement	Intérieur
Indice de protection	IP30 IK02

Régulateur

Conformité	CE
Certification	EN50131 Grade 2, INCERT

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