



DD1012PI

Detetor Dupla Tecnologia (PIR/ μ W), Imune a Pequenos Animais, 9 cortinas, 12m

Patented range gated radar technology

Motion sensors of the DD1000 Series incorporate a Carrier Fire & Security patented and 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 pattern.

Every motion sensor comes with 4 possible radar ranges selectable via dip switches allowing the detection pattern 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 networks.

PIR technology in combination with patented mirror optics

Our patented optical mirror technology gives the advantage of gliding focus, which creates a continuous detection curtain from floor level up to installation height.

Within our DD1012 series we are using a dual element pyro generating 2 volumetric curtains for each of the 9 curtain sets.

The DD1012PI is designed to be immune for pets up to 18 kg of weight (about 35 cm of height).

Detection technologies working together

These dual tech motion sensors generate an alarm depending on what both technologies – range gated radar and PIR – saw within its 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. Tolerates wall angle deviation and different mounting heights.
2. Limited loss of coverage when objects are placed in the field of the PIR vision.
3. Easy range setting via dip switches of the range gated radar in order to tailor the detection pattern to your needs.
4. Multiple build-in End-Of-Line resistor values with “easy wiring” option available.
5. Plug-in connector.

Other members of the family

This family includes motion sensors with variants in detection range, two types of anti-masking masking technology and Pet Immunity.

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



Details

- Patented selectable range gated radar technology clearly defining the radar detection border
- PIR technology with patented mirror curtain optics
- Pet Immunity up to 18 kg (ca. 35 cm height)
- Intelligent alarm decision based on signal classification of the PIR and radar alarm
- Automatic continuous self diagnostics on all technologies
- Green mode : option to switch off the radar technology when the security system is not armed
- Holding several security approvals including EN Grade II and UL/ULc

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Technical specifications

General

Tecnologia	Dupla
Anti máscara	Não
Imune a pequenos animais	Sim
Camera	Não
Kit tamper remoção	ST400
Tempo de arranque do detetor	60 s

Detection

Alcance máx. deteção	12 m
Seleção alcance de deteção	4, 6, 9, or 12 m selectable via dip switches
Nr. de cortinas	9
Cobertura (campo de visão)	78°
Frequência de micro-ondas (nom.)	5.8 GHz
Saída máx. de micro-ondas (a 1m)	0.003 μ W/cm ²
Proteção contra rastejamento	Sim
Gama de velocidade do alvo	0.2 to 3.0 m/s
Memória de alarme	Sim
Tempo de alarme	3 sec
Imunidade a ripple pico-a-pico	2 V (at 12 VDC)

Wired/wireless

Wired-wireless	Fio
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Inputs/outputs

Caraterísticas do relé de NC, 80 mA 30 VDC, Form A alarme	
Caraterísticas do relé de NC, 80 mA 30 VDC, Form A tamper	
Configuração de relé	Valores EOL múltiplos
Linhas de controlo remoto	Dia/Noite, Walk test

Electrical

Tensão de operação	9 to 15 VDC (12 V nominal)
Tipo de fonte de alimentação	12 VDC
Consumo de corrente	8 mA nominal

Physical

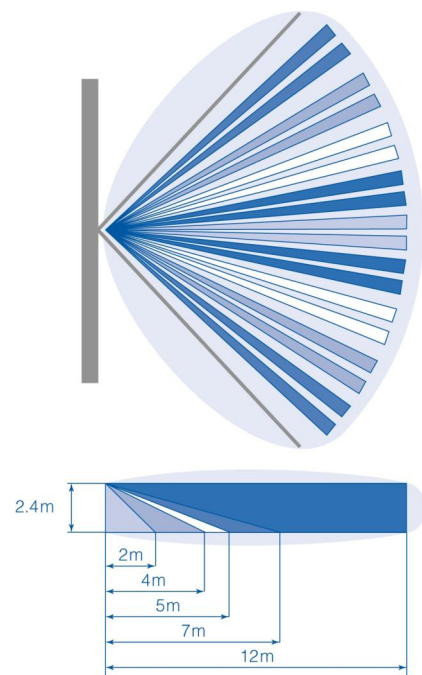
Dimensões físicas	126 x 63 x 50 mm
Peso líquido	120 g
Cor	Branco
Altura de montagem	1.8 a 3 m

Environmental

Temperatura de operação	-10 to 55°C
Humidade relativa	95% max. noncondensing
Ambiente	Interior
Classificação IP	IP30 IK04

Regulatory

Grau EN50131	Grau 2
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