

DD1012AM

12 m volumetric Dual Technology
with anti-masking



OVERVIEW

Patented Range Gated Radar Technology

Motion sensors of the DD1000 Series incorporate a UTC 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.

Detection technologies working together

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

But our dual technology goes 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.

FEATURES

- Patented selectable range gated radar technology clearly defining the radar detection border
- PIR technology with patented mirror curtain optics
- Anti-masking variant using radar technology to protect the outside of the motion sensor against sabotage actions
- 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
- Complies with EN50131-2-4 Grade 3

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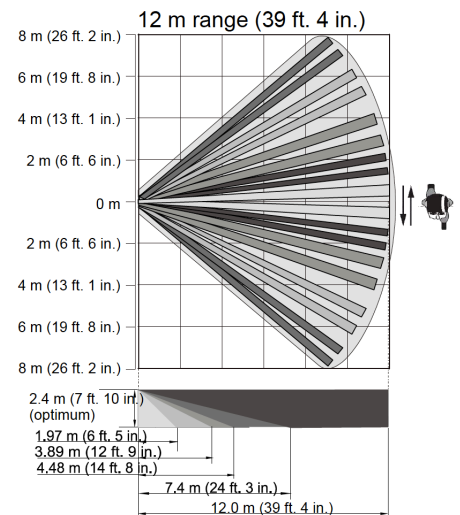
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Specifications

Detection range	4, 6, 9, 12m selectable via dip switches
Viewing angle	78°
PIR Optics	9 mirror curtains
Microwave frequency	5.8 GHz
Max. microwave output (at 1m)	0.003 microW/cm ²
Memory function	Yes
Input power	9 to 15 VDC (12v nominal)
Peak-to-peak ripple immunity	2V (at 12 VDC)
Detector start-up time	60 s
Current consumption	8 to 20 mA (9 mA nominal)
Mounting height	1.8 to 3.0m
Target speed range	0.2 to 3.0 m/s
Alarm/Tamper relay characteristic	NC, 80 mA 30 VDC, Form A
Fault relay characteristic	NC, 80 mA 30 VDC, Form A
Alarm time	3 s
Operating temperature	-10 to +50°C
Relative humidity	95% max. non-condensing
Weight	120g
Dimensions (H x W x D)	126 x 63 x 50mm
IP/IK rating	IP30 IK04
Pry-off tamper	Onboard

Anti-masking (optical and radar)

The use of Active Infrared and radar technology results in a superior anti-masking functionality that supervises the motion sensor on the inside and outside. Radar verification prevents from having unwanted AM alarms caused by e.g. insects. In advanced setting the AM alarm is held until the effective source of the anti-masking (e.g. spray, tape,...) has been removed. Even partial masking – so going beyond the EN Grade III standard – will be detected when in advanced setting.



Ordering Information

DD1012	12m, Dual technology, 9 curtains
DD1012PI	12m, Dual technology, 9 curtains, pet immune
DD1012AM	12m, Dual technology, 9 curtains, with anti-masking

Other DD1000 series detectors and accessories

DDV1016	16m, Dual technology, 9 high density vector curtains
DDV1016AM	16m, Dual technology, 9 high density vector curtains, with anti-masking
SB01	Wall/ceiling mount bracket (± 45° horizontal, 0° or -5° vertical)
ST400	Pry-off tamper

Aritech. Your total detection solution.

The Aritech range provides you with a full family of class leading detection devices. Variants include mirror optic PIR, vector PIR, dual technology with PIR and radar in various configurations including 360 degree and short, medium and long ranges.

Specifications subject to change without notice.

Interlogix
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DD1012AM-DS-120712-1