DDV1016AM-D-B-N

16 m, Dual, 9 curtains, Anti-Mask, VdS/EN Grade III, dark grey, digital pyro, neural algorithm

Patented Range Gated Radar Technology

Motion sensors of the DDV1016 Series incorporate a 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 5.8 GHz frequency.

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 DDV1016 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 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.

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.

Other members of the family



Détails

- Patented selectable range gated radar technology clearly defining the radar detection border
- PIR technology with patented mirror curtain optics
- Anti-masking variant using Active Infrared and radar technology to protect against sabotage actions outside and inside of the motion sensor
- 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
- Incorporates a new digital pyro that detects the temperature fluctuations with high degree of precision
- Incorporates a brand new neural algorithm to filter out unwanted alarms

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

Neural network-based technology algorithm

Aritech has developed an improved algorithm based on cutting edge neural network-based technology to improve the detection performance and reduce false alarms triggered by external sources. Neural networks are trained to extract complex image features effectively; it allows the detection of slow motion even further apart from the detector.
This algorithm has the aim to improve even further the immunity to false alarms, which is a key concern for major applications of sensors in commercial settings.

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Spécifications techniques

Général

Technologie	Dual
Type d'application	Fixation murale
Anti-masquage	Oui
Insensible aux animaux	Non
Caméra	Non
Kit levier d'arrêt anti-ouverture	On board
Temps mise en route du détecteur	60 s

Détection

Plage de détection maximale	16 m
Sélection de la plage de détection	10, 12, 14, or 16 m selectable via dip switches
Nbre de rideaux	9
Couverture (champ de vision)	78°
Hyperfréquence (nom.)	5.8 GHz
Sortie Max. d'onde (à 1m)	0.003 µW/cm²
Protection sous-jacente	Oui
Plage de vitesse cible	0.1 to 4.0 m/s
Mémoire d'alarme	Oui
Durée de l'alarme	3 sec
Immunité d'ondulation crête à crête	2 V (at 12 VDC)

Filaire / sans fil

Filaire / sans fil	Câblés

Entrées / sorties

Caractéristique du relais d'alarme	NC, 80 mA, 30 VDC, Form A
Caractéristique du relais d'alarme	NC, 80 mA, 30 VDC, Form A
Caractéristique du relais antimasque	NC, 80 mA, 30 VDC, Form A
Lignes de commande à distance	Day/Night, Walk test

Électrique

Tension de fonctionnement	9 to 15 VDC
Consommation de courant	10 to 22 mA (11 mA nom.)

Caractéristiques physiques

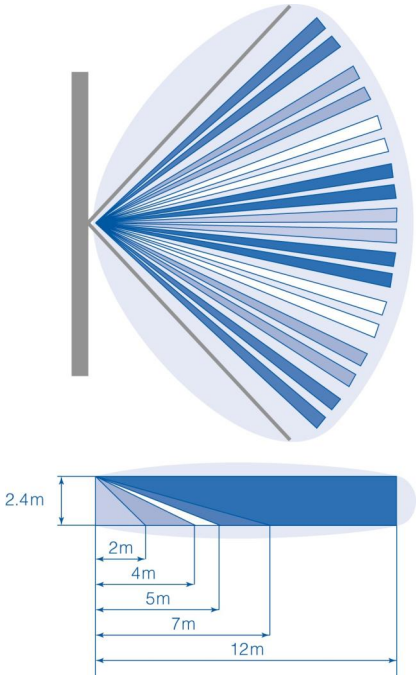
Dimensions physiques	126 × 63 × 50 mm
Poids net	120 g
Couleur	Gris foncé
Hauteur de montage	2 to 3 m

Environnement

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

Régulateur

Certification	EN50131 Grade 3, VdS



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