EV1012

PIR motion sensor, DSP, 12 m, 9 curtains

The power of mirror

Aritech motion sensors have the most advanced and sophisticated optics in the security industry. This unique optical mirror technology is a step and gliding focus, which creates a continuous curtain resulting in a sensor that never loses track of the object.
To increase detection coverage, the 1000 series sensors use the 3Brid orthogonal curtain design. This is a horizontal mirror structure that produces curtains with vertical orientation to detect infrared. This orthogonal invention is the key in adding curtains to the mirror without sacrificing signal strength, nor increasing the size of the sensor.

5D signal processing

"5D" is the next generation of Aritech signal processing. It builds on the current strengths of 4D, but adds an intelligent differentiation between fast and slow moving signals.
When a slow thermal source is detected, the signal processing switches automatically to the 5D mode and executes additional pattern recognition to distinct this signal from a slow walking person. If the signal fits, it must be an intruder and an alarm is generated. If there is no fit, the signal is ignored, which ensures signals such as moving reflection of sunlight are filtered out.
The result is a unique combination of high sensitivity detection with high false alarm immunity without the need for manual sensitivity adjustment.

Easy to install

PIRs of the 1000 series are the most rewarding sensors to install:
1. Tolerate wall angle deviation and different mounting heights.
2. Limited loss of coverage when objects are placed in the field of vision.
3. No range setting is required thanks to constant range sensitivity.
4. Plug-in electronics.

Complete family

The 1000 series are part of the Aritech range of motion sensors. This family includes motion sensors with variants in housing size, detection range, anti-masking, dual detection technology, addressable interfacing, wireless transmission and more. This range covers all applications where security needs to be safeguarded.
The consistent family aesthetics between the various models ensure a professional approach when installing different sensor types.



Details

- Passive Infra Red motion sensor
- 3Brid Step & Gliding Focus Curtain mirror
- Plug-in electronics
- Sealed optics
- 5D signal processing for false alarm immunity
- Cloak and umbrella immunity
- Full under crawl detection
- Selectable coverage pattern using mirror masks
- Auto focus with constant range sensitivity
- No adjustment required for different mounting heights
- Tolerates wall angle deviation
- Certified EN50131-2-2 Grade 2
- Several European approvals

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Technical specifications

General

Technology	PIR
Application type	Wall mount
Anti masking	No
Pet immune	No
Camera	No
Signal processing	5D
Pry-off tamper kit	ST400 (optional)

Detection

Max. detection range	12 m
Detection range	12 m / 40 ft
No. of curtains	9
Coverage (field of view)	86°
Undercrawl protection	Yes
Alarm memory	No

Wired/wireless

Wired-wireless	Wired

Inputs/outputs

Alarm relay characteristic	NC when energised (voltage free)
Tamper relay characteristic	NC when cover closed (voltage free)
Relay configuration	Isolated or 4k7 EOL
Remote control lines	Walk test

Electrical

Power supply value	9 to 15 VDC (12 V nominal)
Current consumption	4.4 mA

Physical

Physical dimensions	108 x 60 x 46 mm (W x H x D)
Colour	White
Mounting height	1.8 to 3 m

Environmental

Operating temperature	-10 to 55°C 14 to 130°F
Relative humidity	95%
Environment	Indoor

Regulatory

EN50131 grade	Grade 2

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