# VE1016

## Vector PIR, V2E, 9 curtains, 16 m

### The power of mirror

Our 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.

### Patented Vector pyro

Infrared signals are captured by the pyro-electric sensor that is placed in the detectors' focal point. The conventional pyro generates a one-dimensional signal (value) to detect the presence of a source, and therefore its detection probability within the area is entirely determined by the resolution of the optics of the motion detector.

Due to the unique construction of the patented Vector pyro, a thermal source will generate a multi-dimensional signal (vector), allowing the pyro to determine not only the presence but also the direction of motion of a thermal source. This now means that the detection probability is equal to the product of the resolution of the optics and the multi-dimensional output of the pyro. This is a major advance in PIR technology capability.

### V2E signal processing

The VE series of motion detectors incorporate a patented Vector Verified Enhanced (V2E) signal processing.  Each type of signal source will generate a unique vector output captured by the Vector pyro. The digital signal processing will analyze each vector's shape and pattern, allowing it to distinguish different signal sources.  It means that VE series motion sensors will not only identify non-thermal signal sources, but also filter out any potential nuisance signals such as stationary thermal sources, ventilators or strong light sources, and react only to alarm signals from intruders. PIR motion sensor with vector pattern recognition is unique to Aritech.

### 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 our range of motion sensors. This family includes motion sensors with variants in housing size, detection range, anti-masking, dual detection technology, addressable interfacing,



### Details

- Passive Infra Red motion sensor
- 3-Step Gliding Focus Curtain mirror
- Plug-in electronics
- Sealed optics
- "V2E" 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
- EN50131-2-2 Grade 2 certified
- Several European approvals

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.

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## Technical specifications

### General

| | |
|---|---|
| Technology | PIR |
| Application type | Wall mount |
| Anti masking | No |
| Pet immune | No |
| Camera | No |
| Signal processing | Vector Verified Enhanced (VE2) |
| Pry-off tamper kit | ST400 (optional) |
| Detector start-up time | 60 s |

### Detection

| | |
|---|---|
| Max. detection range | 16 m |
| No. of curtains | 9 |
| Coverage (field of view) | 86° |
| Undercrawl protection | Yes |
| Target speed range | 0,2 to 3.0 m/s |
| Alarm memory | Yes |
| Alarm time | 3 s |
| Peak-to-peak ripple immunity | 2V (at 12 VDC) |

### Wired/wireless

| | |
|---|---|
| Wired-wireless | Wired |

### Inputs/outputs

| | |
|---|---|
| Alarm relay characteristic | NC, 80 mA 30 VDC, Form A |
| Tamper relay characteristic | NC, 80 mA 30 VDC, Form A |
| Relay configuration | Isolated or 4k7 EOL |
| Remote control lines | Day/Night, Walk test |

### Electrical

| | |
|---|---|
| Operating voltage | 9 to 15 VDC |
| Current consumption | 5.5 mA |

### Physical

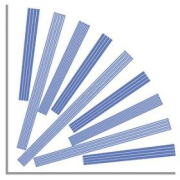
| | |
|---|---|
| Physical dimensions | 108 x 60 x 46 mm (W x H x D) |
| Net weight | 128 g |
| Colour | White |
| Mounting height | 1.8 to 3 m |

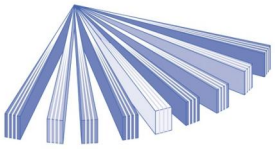
### Environmental

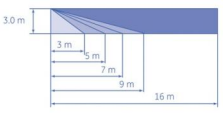
| | |
|---|---|
| Operating temperature | -10 to +55°C<br>14 to 130°F |
| Relative humidity | 95 % relative humidity |
| Environment | Indoor |
| IP rating | IP30 |

### Regulatory

| | |
|---|---|
| EN50131 grade | Grade 2 |








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