# Vector Enhanced Motion Sensors

VE Series

## OVERVIEW

Aritech Vector Enhanced Motion Sensors (VE series) feature highly advanced and sophisticated optics that provide precise detection and superior performance. The unique optical mirror technology uses a step and gliding focus feature that creates 11 continuous curtains resulting in sensors that provide maximum coverage density of up to 200 feet.

Using a patented Vector pyro, VE series motion sensors not only detect the presence of a thermal source, but also determine the direction of motion across the surveillance area. When the chime mode is set to “ON,” VE series motion sensors can be set to trigger an alarm when an intruder walks from left to right, and/or right to left. By merging the resolution of advanced mirror optics with the patented Vector pyro, VE series motion sensors deliver exceptional PIR technology for increased sensitivity and lower false alarms.

VE series motion sensors also incorporate a patented Vector Verified Enhanced (V2E) signal processing. Each type of signal source generates a unique vector output that is captured by the Vector pyro. Digital signal processing analyzes each vector’s shape and pattern, allowing it to distinguish between different signal sources. V2E signal processing technology ensures motion sensors identify and filter out stationary thermal sources, as well as non-thermal signal sources, to react only to signals from intruders and prevent false alarms.

## STANDARD FEATURES

- Passive Infrared (PIR) motion sensor
- Step and Gliding Focus, Multi-Curtain mirror
- Plug-in electronics
- Sealed optics
- Vector Verified Enhanced detection algorithm
- Full under-crawl detection
- No adjustment required for different mounting heights
- Pry-off and cover tamper
- UL/ULC listed

# Vector Enhanced Motion Sensors

VE Series


**North America** T 855-286-8889
**Asia** T 852-2907-8108
**Australia** T 61-3-9239-1200
**Europe** T 32-2-725-11-20
**Latin America** T 561-998-6114


## Specifications

| DESCRIPTION | VE735 | VE1120 |
|---|---|---|
| Detection Range | 200 ft. | 65 ft. |
| Undercrawl Protection | Yes | Yes |
| Sensitivity | | Normal/High |
| Detection Range Selection | 65 or 200 ft. | |
| Coverage Field of View | 86º - 11 curtains, 5º - 1 curtain | 86º - 11 curtains |
| Coverage Pattern Selection | Blinders and curtain labels | Curtain labels |
| Mounting Height | 6 to 10 ft. | 6 to 10 ft. |
| Power Supply | 12 VDC Nominal | 12 VDC Nominal |
| Current Consumption (nom.) | 11 mA | 4.4 mA |
| Alarm Relay (voltage free) | NC when energized | NC when energized |
| Tamper Relay (voltage free) | NC when cover closed | NC when cover closed |
| Remote Control Lines | Walk test & Day-Night | Walk test |
| Alarm Memory | Yes | Yes |
| PIR Process Mode | Low/Standard/High | |
| PIR Signal Processing | V2E | V2E |
| Dimensions (WxHxD) | 3.7 x 6.9 x 2.6 in. (93 x 175 x 66mm) | 2.6 x 4.9 x 2.4 in. (65 x 125 x 60mm) |
| Ambient Conditions | 14 to 130º F; 95% relative humidity | 14 to 130º F; 95% relative humidity |
| Pry-off Tamper | Yes | Optional |
| Standards | UL, ULC | UL, ULC |

## Ordering Information

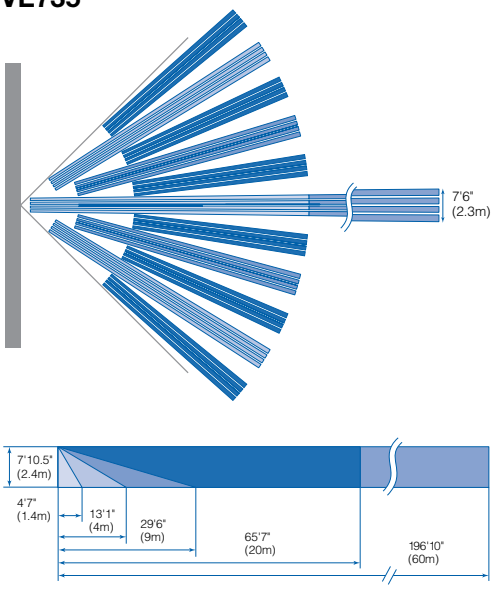
| | |
|---|---|
| VE735 | PIR Detector with 11 curtains & 1 curtain of 20m & 60m NC Relay |
| VE1120 | Vector PIR, DSP, 20m, 11 curtains |

## Accessories

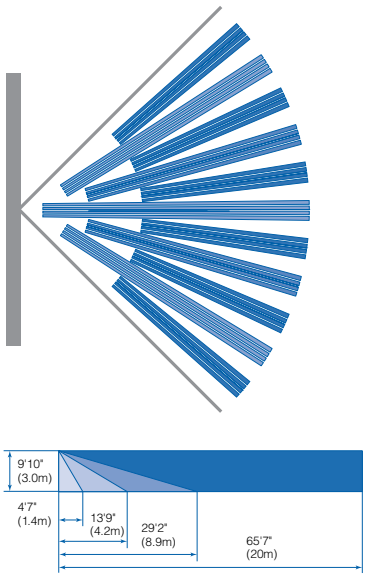
| | |
|---|---|
| VE710 | Laser beam, long-range alignment tool for VE700 family |
| SB01 | Wall/ceiling-mount bracket (± 45º horizontal, 0º or -5º vertical) |
| ST400 | Pry-off tamper kit |

## Coverage Diagrams

**VE735**

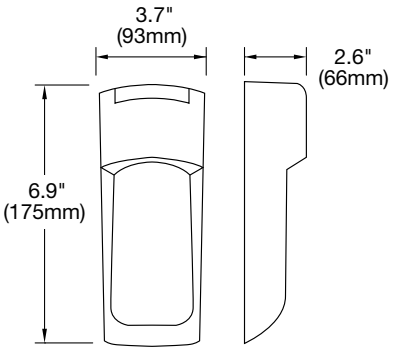



**VE1120**

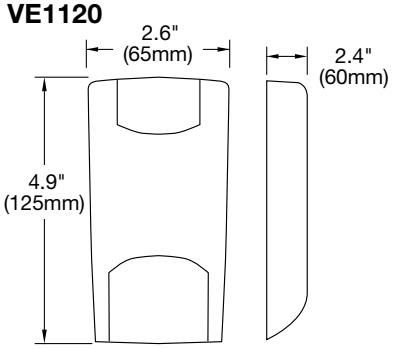



## Dimensional Diagrams

**VE735**




**VE1120**

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Specifications subject to change without notice.




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