



VE735 Series

Combined volumetric & long range
PIR/AM motion sensor

Features:

- Passive Infra Red motion sensor
- High density "Step & Gliding Focus Multi Curtain" mirror
- Plug-in electronics
- Sealed optics
- "Vector Verified Enhanced" detection algorithm
- Selectable range with full undercrawl detection
- On-site individual coverage pattern selection
- 3 alarm sensitivities
- No adjustment required for different mounting heights
- Tolerates wall angle deviation
- Pry-off and cover tamper
- Complies with EN5013 1-2-2
- Several European approvals

With existing technology PIR detectors, IR signals are captured by a pyro-electric sensor placed in the detector's focal point. When a conventional pyro sees a thermal source within the surveillance area, it will generate a one-dimensional signal (value) and the presence of the source can be detected. The detection probability within the area is determined only by the resolution of the optics of the motion detector. Due to the unique construction of the patented VE700 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.

VE735 Series

DSP detection algorithm

The vector output of the VE700 pyro is unique for each different signal source. The DSP detection analysis allows the system to distinguish each vector's shape and characteristic. In other words, each vector's unique signature/pattern. In the surveillance area the VE700 will not only identify non-thermal signal sources, but, thanks to the DSP-driven detection algorithm, it will also filter out any false alarm signals from a stationary thermal source and react only to alarm signals from a moving thermal source (intruder). This is the first time that a PIR motion sensor with vector pattern recognition has been available on the security market.

Proprietary HDO mirror

The VE700 has a unique feature in the Step & Glide focus mirror, and GE SECURITY has a well-established reputation for manufacturing effective volumetric motion sensors with multi-curtains that provide maximum coverage density and are easy to install.

With the "High Density Optic" (HDO) mirror, the VE700 series will provide you with more and wider curtains (and therefore untraceable detection gaps), without increasing the mirror size. The VE700 series has a comprehensive floor-pattern, made by a wide-angle mirror featuring 11 high-density curtains over a 90° field-of-view, enhanced with a 60m long-range curtain.

The VE700 is the only motion detector on the market that can offer this unique combination in one product.

Chime mode

The pattern of the output vector of the VE700 pyro contains unique information about the origin of the source. That's why the DSP in the VE700 can recognise the direction in which the thermal source is moving. In other words, the VE700 allows you to determine the direction of the intruder across the surveillance area. When the chime mode is ON, the VE700 can trigger an alarm when an intruder walks from left to right and differentiate intruder movement from right to left, and vice versa.

Detector setting

The VE700 has three sensitivity settings: Low, Standard and High. Sensitivity is set by selecting different modes for running the pattern recognition algorithms. The ex-factory setting is Standard, which ensures the best performance for most applications. The sensitivity level can be easily modified with a jumper.

Test

All electronics of the VE700 are monitored constantly, in order to report the unlikely case of a defect.

Plug-in electronics

The plug-in concept ensures easy installation without any worry about damaging the sensor. All jumpers and switches are in the sub-frame, which means that setting any desired characteristic can be done conveniently in your hand.

Accessories

The VE710 laser alignment tool is the recommended tool to use during installation for aligning the sensors in long corridor applications. The SBO1 swivel and mounting bracket can be used with the VE735.

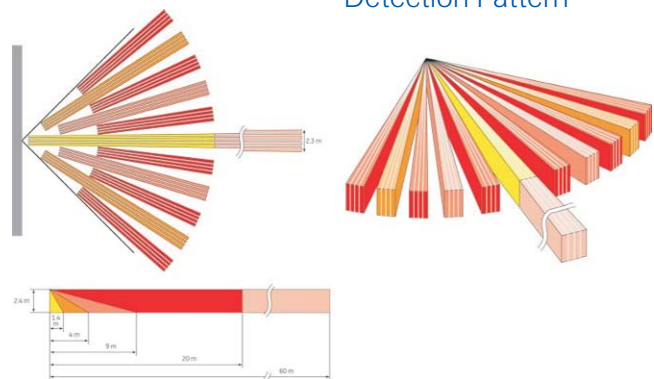
Specifications

Detection range	60 m
Undercrawl protection	Yes
Detection range selection	60 m or 20 m
Coverage field of view	86°, 11 curtains & 5°, 1 curtain
Coverage pattern selection	Blinders and curtain labels
Mounting height	1.8 to 3.0 m
Power supply	9 to 15 VDC
Current consumption (nom.)	11 mA
Alarm relay (voltage free)	NC when energised
Tamper relay (voltage free)	NC when cover closed
Relay configuration	Isolated or 4k7 EOL
Remote control lines	Walk test & Day-Night
Alarm memory	Yes
PIR process mode	Low / Standard / High
Dimensions (W x H x D)	93 x 175 x 66 mm
Ambient conditions	-10 to +55°C; 95% relative humidity
Pry-off tamper	Yes
EN50131-2-2	Grade 2 and 3

Ordering Information

VE735S70	"Step & Gliding Focus Multi Curtain" mirror optics passive infra red detector, with "V2E" signal processing for false alarm immunity, wide angle (86° with 11 curtains or 5° with 1 curtain) selectable range 60m or 20m, NC relay SB01 Mounting bracket for EV-detectors
816.005.001	

Detection Pattern



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