VE735AM

PIR motion sensor, 11 curtains, V2E Technology, anti-mask, 60 m

Patented pyro & V2E signal processing

Unlike conventional sensors, our patented Vector pyro captures multi-dimensional signals, allowing it to not only detect the presence of a thermal source but also determine its direction of motion. This breakthrough technology enhances detection probability by combining optics resolution with the pyro's advanced output. Our VE series motion detectors incorporate as well Vector Verified Enhanced (V2E) signal processing, which analyzes and distinguishes different signal sources. False alarms caused by non-thermal sources or environmental factors like stationary thermal sources or strong light are therefore filtered out.

Optics

The optical part of the VE735AM is identical to the VE735. The step & glide focus mirror with multi curtains are unique features providing maximum coverage density and ensure easy installation. With the "High Density Optic" (HDO) mirror, the VE700AM series will provide you with more and wider curtains (and therefore untraceable detection gaps). The VE735AM is the only AM motion detector on the market that can offer both 90° wide angle and long range detection pattern in one product.

Patented multi channel Anti-Masking

Our VE735AM uses five IR transmitters and receivers working in different frequencies. This results in various AM signals for the sensor. The AM circuit will not be triggered by the magnitude of modified light on each channel but with the relationship between the various signals. The multi channels AM technology makes VE735AM capable of detecting any AM attempt, up to 30 cm from the detector. VE735AM is also immune to: Partial masking attempt, System malfunction, Insect presence, White-light jamming.

Chime & settings

Other VE735AM features, like chime mode and setting are identical to the VE735. For the customer 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. The sensitivity settings (Low, Standard and High) ensure the best performance for most applications. The sensitivity level can be easily modified with a jumper.

Self-test, Plug-in electronics & Accessories

All electronics components of the VE735AM are monitored constantly in order to report the unlikely case of a defect. The plug-in concept ensures easy installation without any worry about damaging the sensor so all setting can be done conveniently in your hand. The VE710 laser alignment tool is the recommended tool to use during installation for aligning the sensors in long corridor applications.



Details

- Passive Infra Red motion sensor
- Multi channel Anti Masking for all masking attempt
- High density "Step & Gliding Focus" Multi Curtain mirror
- Plug-in electronics
- Sealed optics
- "Vector Verified Enhanced" detection algorithm
- Selectable range with full undercrawl detection
- Selectable AM reporting and resetting
- 3 alarm sensitivities
- No adjustment required for different mounting heights
- Tolerates wall angle deviation
- Pry-off and cover tamper
- Complies with EN50131-2-2, Grade 3
- Several European approvals

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Technical specifications

General

Technology	PIR
Application type	Wall mount
Anti masking	Yes
Pet immune	No
Camera	No
Signal processing	Vector Verified Enhanced (VE2)
Pry-off tamper kit	On board

Detection

Max. detection range	60 m
Detection range selection	20 m or 60 m
No. of curtains	11
Coverage (field of view)	86°
Undercrawl protection	Yes
Target speed range	0.1 to 4.0 m/s
Alarm memory	Yes
Alarm time	3 s
Peak-to-peak ripple immunity	2 V (at 12 VDC)

Wired / wireless

Wired / wireless	Wired

Inputs / outputs

Alarm relay characteristic	NC when energised (voltage free)
Tamper relay characteristic	NC when cover closed (voltage free)
Anti mask relay characteristic	NC when no AM, 80 mA 30 VDC, Form A (voltage free)
Relay configuration	Isolated or 4k7 EOL
Remote control lines	Day/Night, Walk test

Electrical

Power supply value	9 to 15 VDC (12 V nominal)
Current consumption	20 mA (nom.)

Physical

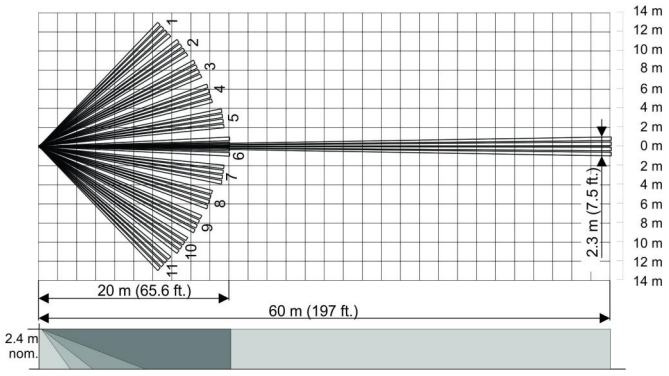
Physical dimensions	93 x 175 x 66 mm (W x H x D)
Net weight	275 g
Colour	White
Mounting height	1.8 to 3 m

Environmental

Operating temperature	-10 to +55°C
Relative humidity	0 to 95% noncondensing
Environment	Indoor
IP rating	IP30

Regulatory

EN50131 Grade	Grade 3
Certification	VdS



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