

VE735AM

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

Technology

The VE735AM is a motion sensor using the V²E technology. This product uses the PIR part of VE735 together with multi channel anti masking.

For more in-depth info on V²E technology, we recommend that you refer to the VE735 leaflet, where we explain how the patented PYRO and V²E algorithm make this PIR the first motion sensor with vector pattern recognition on the security market. For the customer, the V²E technology means the best possible PIR in the market with highest ratio of detection /nuisance alarm.

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

It is known that the best solution to protect a motion sensor from being masked is active IR technology. We have always served the market with the best available technology to achieve the highest AM performance. The VE735AM continues this trend by using the fourth generation of AM.

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

EN50131-2-2 Grade3 compliancy

The VE735AM is designed and approved to comply with EN50131-2-2 Grade 3, as well as with all highest European security grades for a PIR/AM motion sensor.

Chime & setting

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,



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
- Several European approvals

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.

Remote self test

All active and electronics components of the VE735AM are monitored constantly in order to report the unlikely of a defect.

Plug-in & accessories

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.

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Technical specifications

General

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

Wired/wireless

Wired-wireless	Wired
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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

Standards & regulation

EN50131 grade	Grade 3
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Last updated on 23 July 2021 - 9:53