UTC Fire & Security
A United Technologies Company

Product Data Sheet

VE735AM

Combined volumetric & long range PIR/AM motion sensor

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

Standard Features

- 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

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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.)	20 mA
Alarm relay (voltage free)	NC when energised
Tamper relay (voltage free)	NC when cover closed
AM relay (voltage free)	NC when no AM
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 3

Ordering Information

Part No.	Description
VE735AM	PIR/AM Detector with 11 curtains & 1 curtain of 20 m & 60 m NC Relay
VE736AM	PIR/AM Detector with 11 curtains & 1 curtain of 20 m & 60 m CO Relay
VE710	Laser beam, long-range alignment tool for VE700 family
SB01	Wall/ceiling mount bracket (± 45º horizontal, 0º or -5º vertical)

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, 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

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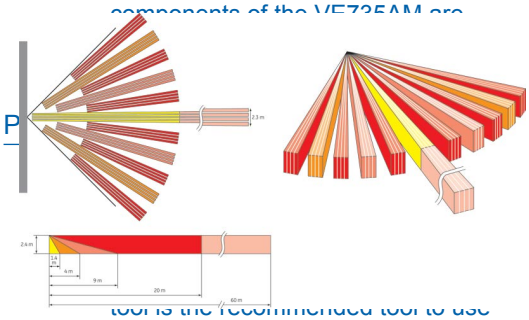

tool is the recommended tool to use during installation for aligning the sensors in long corridor applications.

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