

# VE736

## PIR Detector with 11 curtains & 1 curtain of 20 m & 60 m CO Relay

### Patented PYRO

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Infrared signals are captured by the pyro-electric sensor, which is placed in the detectors' focal point. The conventional pyro generates a one-dimensional signal (value) to detect the presence of a source, and therefore its detection probability within the area is entirely determined by the resolution of the optics of the motion detector. Due to the unique construction of the patented Vector 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.

### V2E signal processing

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The VE series of motion detectors incorporate a patented Vector Verified Enhanced (V2E) signal processing. Each type of signal source will generate a unique vector output captured by the Vector pyro. The digital signal processing will analyze each vector's shape and pattern, allowing it to distinguish different signal sources. It means that VE series motion sensors will not only identify non-thermal signal sources, but also filter out any potential nuisance signals such as stationary thermal sources, ventilators or strong light sources, and react only to alarm signals from intruders. Our PIR motion sensor with vector pattern recognition is unique.

### Proprietary HDO mirror

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With our unique Step & Gliding focus mirror, we have a well-established reputation for producing effective volumetric motion sensors with multi-curtains that provide maximum coverage density and are easy to install. With the "High Density Optics" (HDO) mirror, the VE700 series have 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 a single product.

### Chime mode

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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

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The VE700 has three sensitivity settings: Low, Standard and High. Sensitivity is set by selecting different modes for running the pattern



### Details

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- 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 EN50131-2-2
- Several European approvals

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.

## **Self-Test**

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

## **Plug-in electronics**

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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**

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The VE710 laser alignment tool is the recommended tool to use during installation for aligning the sensors in long corridor applications.

The SB01 swivel and mounting bracket can be used with the VE735.

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### Technical specifications

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#### General

Technology	PIR
Anti masking	No
Pet immune	No
Camera	No
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

#### Wired/wireless

Wired-wireless	Wired
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#### Inputs/outputs

Alarm relay characteristic	NO/NC (voltage free)
Tamper relay characteristic	NC when cover closed (voltage free)
Remote control lines	Day/Night, Walk test

#### Electrical

Operating voltage	9 to 15 VDC
Current consumption	11 mA (nom.)

#### Physical

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

#### Environmental

Operating temperature	-10° to +55° C
Relative humidity	95% relative humidity
Environment	Indoor

#### Standards & regulation

EN50131 grade	Grade 2
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