Product Data Sheet

EV425-P
16 m volumetric PIR motion sensor

Volumetric

The nine curtains of the EV400 Plus provide maximum detection capability throughout the protected area, including full undercrawl protection. The special characteristics of a "curtain" also offer increased stability and rejection of false alarms from temperature changes on floors and carpets. A further advantage is better performance in warm environments where conventional PIRs suffer from a collapse of range.

Long range

The EV450 Plus offers an impressive solid curtain of up to 5 metres by 25 metres. The performance of the solid curtain of protection, provided by the unique gliding focus curtain mirror, puts this detector in a class of its own.

True range control (Autofocus)

A range control switch in the EV400 Plus allows it to be adapted to overcome the particular false alarm hazards faced in smaller rooms. PIRs can be oversensitive to relatively small temperature changes occurring on walls or objects in close proximity - a phenomenon known as " hot spots " or the " claustrophobic effect ". This is the reason for the all too common occurrence of false alarms from detectors in smaller environments. A PIR with fixed range cannot be adapted for stable operation in such applications.

Innovations based on the unique properties of the curtain allow the EV400 Plus to be programmed for use in smaller environments, dramatically cutting its susceptibility to " hot spots " and eliminating the claustrophobic efect without reducing sensitivity to real human movement.

"4D" signal processing

"4D" signal processing is the next generation of processing provided by the latest GE SECURITY ASIC. This processing builds on the current strengths by adding " Moving Pole Filters " which automatically evaluate the environment and switch in additional filtering should the environment become noisy.

Standard Features

- Passive Infra Red motion sensor
- "Step & Gliding Focus Multi Cutain" mirror optic
- Sealed optics
- ASIC with "4D" processing
- On-site individual coverage pattern selection
- Additional Bi-curtain processing for harsh environment
- No adjustment required for different mounting heights
- Tolerates wall angle deviation
- Complies with EN50131-2-2
- Several European approvals

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Specifications

Detection range	16 m
Undercrawl protection	Yes
Detection range selection	16 m or 9 m
Coverage field of view	86° with 9 curtains
Coverage pattern selection	Blinders and curtain labels
Mounting height	1.8 to 3.0 m
Power supply	9 to 15 VDC
Current consumption (nom.)	9 mA
Alarm relay (voltage free)	NC when energised
Tamper relay (voltage free)	NC when cover closed
Remote control lines	Walk test
Alarm memory	No
PIR process mode	Standard / Bi-curtain
Dimensions (W x H x D)	71 x 103 x 51 mm
Ambient conditions	-10 to +55°C; 95% relative humidity
Pry-off tamper	ST400 (optional)
EN50131-2-2	Grade 2

Ordering Information

Part No.	Description
EV425-P	PIR Detector with 9 curtains of 16 m NC Relay
EV436-P	PIR Detector with 9 curtains of 16 m CO Relay
SB01	Wall/ceiling mount bracket (± 45° horizontal, 0° or -5° vertical)

"4D" allows a PIR to intelligently analyse a signal pattern to distinguish between real human movement and false alarm hazards. The EV400 Plus identifies a human signal pattern by the comparative size and shape of successive signals and the speed at which they occur. Signals which do not fit this pattern (e.g. temperature changes on the floor, shock, vibration, visible light, etc.) are rejected.

"Bi-curtain" Programming Option

In tough environments, where false alarm hazards are suspected, the detector can be programmed to provide an extra level of signal processing for increased stability of operation.
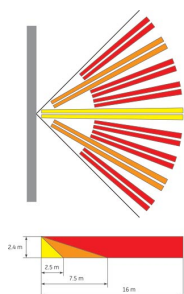
Note : This is not an option on the EV450 Plus to ensure optimum detection on one curtain.

Precision mirror

The EV400 Plus uses a precision mirror for constant sensitivity throughout the coverage pattern and a high quality of detection.

On-site selection of coverage pattern

Simple clip-on mirror masks allow selection from 4 volumetric coverage patterns. An additional mask allows elimination of coverage directly under the detector in the presence of false alarm hazards such as heaters, machinery, etc. Individual curtain masks allow the installer to customize the detection pattern to each application.

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