EV105
12 m volumetric PIR motion sensor

EV 100 Series

The EV 100 Series has been designed specifically for Residential/short range Commercial applications. Details such as the plug-in electronics allow rapid wiring while the Gliding Focus Curtains ensure that you have simple commissioning with perfect detection every time, without the need for time consuming alignment. The EV 100 series enables rapid installation, provides sharp detection every time while guaranteeing excellent false alarm immunity with the highest quality.

Volumetric Curtains of Detection

Benefiting from the success of the EV series PIRs, the EV 100 also features solid curtains of detection. Full undercrawl protection gives maximum security while the special characteristics of a "curtain" ensures not only better intruder detection but also better PIR stability from the environment.

"4D" Signal processing

4D signal processing is the latest generation of PIR processing taken from the EV 400 Plus. 4D allows the PIR processing to intelligently analyse a signal pattern and distinguish between real human movement and false alarm hazards. The PIR processing is resistant to false alarms by analysing the size, shape and speed of successive signals.

True Range Control

The EV 100 series is able to adjust the PIR range. Due to the strength of the Gliding Focus Curtain Mirror, it is possible to reduce how hard the detector is working in smaller rooms, making the detector even more stable, without compromising it's excellent detection.

Accessory

A wall and ceiling mount bracket is available providing flexibility to install and aim the detector where required.

Standard Features

- Passive Infra Red motion sensor
- "Step & Gliding Focus Multi Cutain" mirror optic
- Plug-in electronics
- Sealed optics
- ASIC with "4D" processing
- Selectable range with full undercrawl detection
- Additional bi-curtain processing for harsh environment
- No adjustment required for different mounting heights
- Tolerates wall angle deviation
- Complies with EN50131-2-2
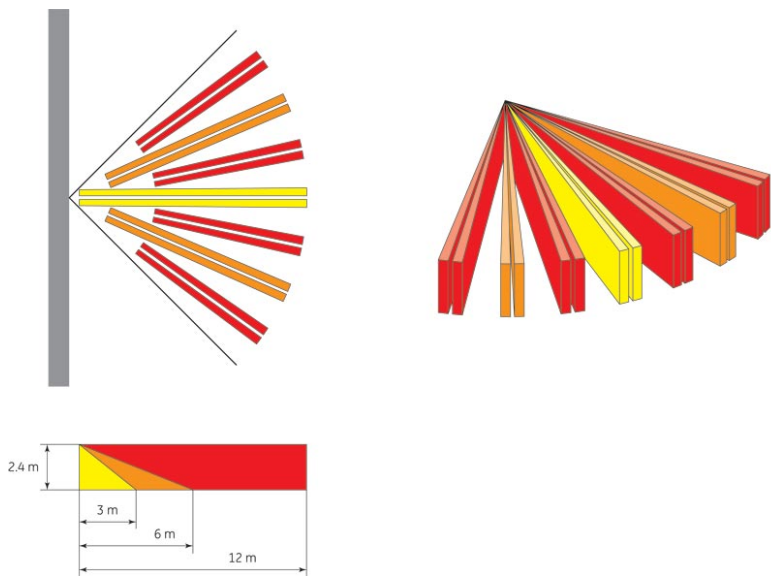- Several European approvals

EV105

12 m volumetric PIR motion sensor

Specifications

Detection range	12 m
Undercrawl protection	Yes
Detection range selection	12 m or 7 m
Coverage field of view	86° with 7 curtains
Coverage pattern selection	Undercrawl blinder
Mounting height	1.8 to 3.0 m
Power supply	9 to 15 VDC
Current consumption (nom.)	4.5 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)	51 x 98 x 47 mm
Ambient conditions	-10 to +55°C; 95% relative humidity
Pry-off tamper	ST400 (optional)
EN50131-2-2	Grade 2

Pet immune EV 100PI

The EV 100PI has been specifically designed for applications where the user wishes to allow pets to move around the protected area, while the system is armed. By combining custom designed mirror optics with an exclusive ASIC, the EV 100PI provides peace of mind that property is perfectly protected without the worry of false alarms through any household pets. The EV 100PI is designed to be immune for pets up to 20 kg, however larger pets can be allowed for through alternative methods of mounting the detector (see application notes).

Ordering Information

Part No.	Description
EV105	PIR Detector with 7 curtains of 12 m NC Relay
SB01	Wall/ceiling mount bracket (± 45° horizontal, 0° or -5° vertical)