

# EV105

12m volumetric PIR motion sensor



## OVERVIEW

The EV105 Series has been designed specifically for residential or short range commercial applications. The EV105's plug-in electronics allow rapid wiring and simple commissioning while the Gliding Focus Curtains ensure you have perfect detection every time, without the need for time consuming alignment.

Benefiting from the success of the EV series PIR's, the EV105 also features solid curtains of detection. Full undercrawl protection gives maximum security while the special characteristics of the "gliding curtain" ensure not only better intruder detection but also better PIR stability from the environment.

The EV105 series is able to adjust PIR range. Its Gliding Focus Curtain Mirror can accommodate smaller rooms, making the detector even more stable, without compromising its excellent detection.

4D signal processing is the latest generation of PIR processing. 4D processing allows the PIR channel to intelligently analyse a signal pattern and distinguish between real human movement and false alarm hazards. The PIR channel in its own right is resistant to false alarms by analysing the size, shape and speed of successive signals. The end result is products with sharp detection and excellent false alarm immunity.

The EV105 series enables rapid installation, and sharp detection while guaranteeing excellent false alarm immunity.

## FEATURES

- Passive Infra Red motion sensor
- "Step & Gliding Focus Multi Curtain" 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

## 12m volumetric PIR motion sensor

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### Pet immune EV 100PI

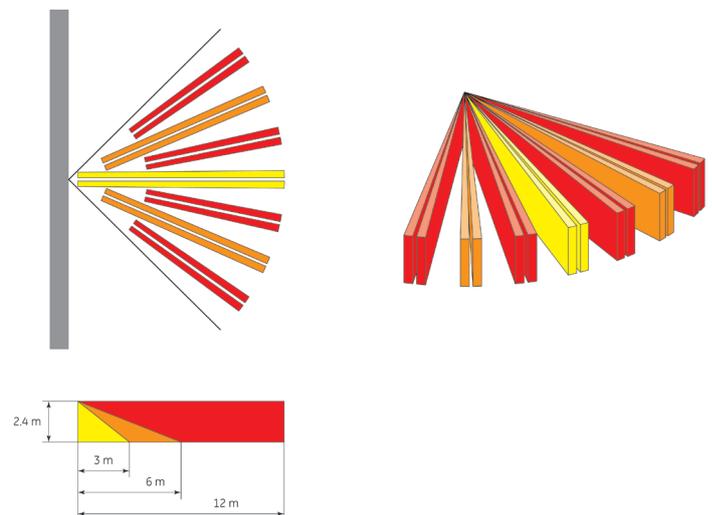
The EV100PI has been specifically designed for applications where the user wishes to allow pets to move around the protected area, while the system is armed. By combining custom designed mirror optics with an exclusive ASIC, the EV 100PI provides peace of mind that property is perfectly protected without the worry of false alarms caused by household pets. The EV 100PI is designed to be immune for pets up to 20 kg, however larger pets can be accommodated with alternative methods of mounting the detector (see application notes).

### Accessory

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

### 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                             |



### ORDERING INFORMATION

|       |                                                                                           |
|-------|-------------------------------------------------------------------------------------------|
| EV105 | PIR Detector with 7 curtains of 12 m NC Relay                                             |
| SB01  | Wall/ceiling mount bracket ( $\pm 45^\circ$ horizontal, $0^\circ$ or $-5^\circ$ vertical) |

Specifications subject to change without notice.

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