



## Aritech EV 75 / PI 75 Series Passive Infrared Detectors

### EV 75

- 10 metre range
- Mirror optics with 5 curtains
- Sealed optical department
- "4D" ASIC processing
- Local LED enable/disable
- Horizontal adjustment
- Small with good aesthetics

### Pet Immune PI 75 specification

- As per EV 75 but specifically designed to ignore pets up to 20 kg



### Aritech EV 75

The EV 75/PI 75 has been specifically designed for residential applications with a new look profile. Designed for simple and speedy installation, its unique gliding focus mirror, sealed optics and ASIC processing guarantee the highest quality.

#### 5 curtains of protection

The EV 75/PI 75's five curtains offer excellent detection capability throughout the protected area. The special characteristics of a "curtain" also offer increased stability and rejection of false alarms from temperature changes on floors and carpets.

### Pet immune PI 75

The PI 75 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 PI 75 provides peace of mind that property is

### "4D" signal processing

The EV 75/PI 75 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.

#### Precision mirror

The EV 75/PI 75 uses a precision gliding focus mirror, developed using the same advanced principles as its big brothers, the EV 100 *Plus* and EV 400 *Plus*. The mirror optics ensure a sharp coverage pattern and a high quality of detection.

perfectly protected without the worry of false alarms through any household pets.

The PI 75 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).

### Installation

By guaranteeing excellent detection through the curtains, no valuable time is wasted on vertical alignment, to ensure adequate coverage, as for other standard beam optics. To ensure optimum flexibility, a  $\pm 5^\circ$  horizontal adjustment has been designed in, when corner mounted.

### Accessory

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

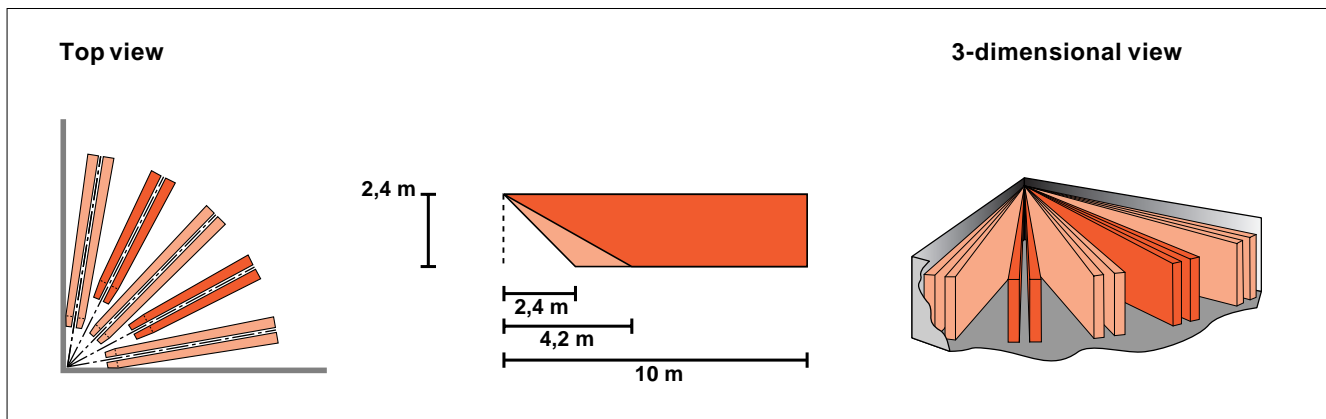




## How to order

|       |   |
|-------|---|
| EV 75 | PIR with 5 curtains of 10 metres, NC relay  |
| PI 75 | Pet immune version of the EV 75 (up to 20kg)  |
| SB 01 | Wall/ceiling mount bracket ( $\pm 45^\circ$ horizontal; $0^\circ$ to $-5^\circ$ vertical) |

## Pattern



## Technical data

|                      |  |
|----------------------|--|
| Supply voltage       | 8 - 15 V dc; Max. ripple 2 V peak to peak at 12 V dc |
| Current consumption  |  |
| Normal operation     | 5 mA   |
| In alarm, LED on     | 7 mA   |
| Outputs              |  |
| Alarm                | NC contact rated 100 mA at 28 V dc                   |
| Tamper               | NC contact rated 100 mA at 28 V dc                   |
| Mounting height      | 1.8 to 3.0 metres                                    |
| Coverage             | 5 curtains of 10 metres                              |
| Field of view        | $86^\circ$   |
| Environmental limits | $-10^\circ$ to $+55^\circ$ C; Max. 90 % humidity     |
| IP-rating            | IP 301   |
| Dimensions           | 92 x 50 x 33 mm                                      |

CE The EV 75 complies with the essential requirements of the EMC directive 89/336/EMC

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