

EV 125 Plus Passive Infrared Detectors

- Now with 7 complete curtains of protection
- Range increased to 12 metres
- Next generation ASIC with "4D" processing providing improved detection and false alarm immunity
- Additional Bi-curtain processing for harsh environments
- Precision "Gliding Focus Curtain" mirror
- True range control (Autofocus) for stable performance in all sizes of rooms up to 12 m
- Individual masking of curtains
- Remote enable/disable of walk test LED
- Alarm memory versions (selectable control polarity)



→ 7 complete curtains of protection

The seven curtains of the EV 125 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.

→ True range control (Autofocus)

A range control switch in the EV 125 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 EV 125 Plus to be programmed for use in smaller environments, dramatically cutting its susceptibility to "hot spots" and eliminating the claustrophobic effect without reducing sensitivity to real human movement.

→ "4D" signal processing

"4D" signal processing is the next generation of processing provided by the latest Aritech 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.

"4D" allows a PIR to intelligently analyse a signal pattern to distinguish between real human movement and false alarm hazards. The EV 125 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.

→ Precision mirror

The EV 125 Plus uses a precision mirror for constant sensitivity throughout the coverage pattern and a high quality of detection.

→ Masking out of unwanted detection area

A mask supplied with the detector 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.

→ Accessory

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

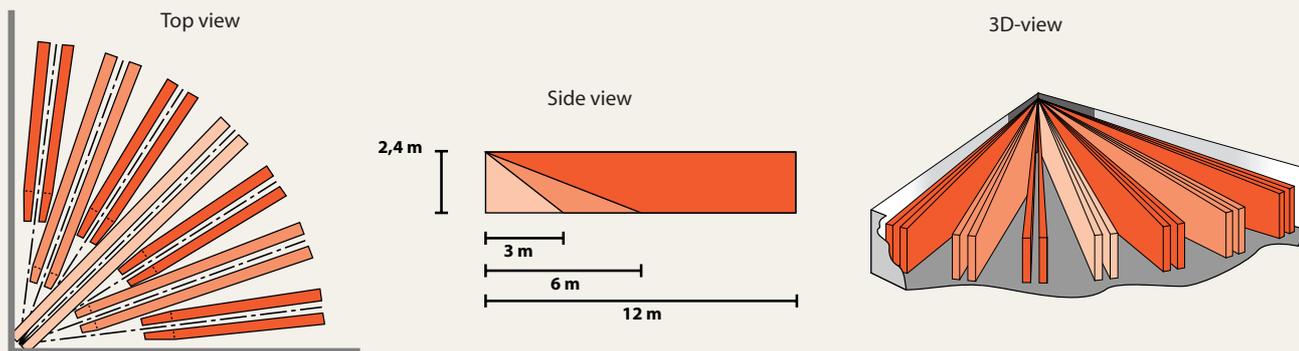
EV 125 Plus



→ Technical data

Supply voltage	9 - 15 V dc; Max. ripple 2 V peak to peak at 12 V dc	
Current consumption	EV 125-P/135-P	EV 126-P/136-P
Normal operation	9 mA	12 mA
In alarm, LED on	14 mA max.	15 mA max.
Outputs		
Alarm	NC (EV 125-P/135-P) or changeover (EV 126-P/136-P), contacts 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	7 curtains of 12 metres. Range can be reduced to 7 metres.	
Field of view	86°	
Environmental limits	-18° to +55° C; Max. 90 % humidity	
IP-rating	IP 301	
Dimensions	103 x 71 x 51 mm	

→ Detection patterns



→ How to order

EV 125-P	PIR with "Autofocus" range control, 7 curtains of 12 metres, NC relay
EV 126-P	As EV 125-P, but with changeover relay
EV 135-P	As EV 125-P, plus alarm memory
EV 136-P	As EV 126-P, plus alarm memory
ST 400	Pry-off tamper kit
SB 01	Wall/ceiling mount bracket (± 45° horizontal - 0° to 5° vertical)

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