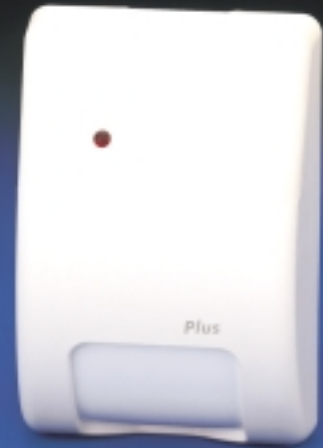


EV 400 Plus Passive Infrared Detectors

- Upgraded curtains of protection
 - Volumetric coverage - 9 x 16 metres
 - Long range coverage - 1 x 25 metres
- Next generation ASIC with "4D" processing providing improved detection and false alarm immunity
- Bi-curtain processing for harsh environments (volumetric only)
- Precision "Gliding Focus Curtain" mirrors
- True range control (Autofocus) for stable performance in all sizes of rooms
- On-site coverage pattern selection using mirror masks supplied
- Individual masking of curtains
- Remote enable/disable of walk test LED
- Alarm memory versions (selectable control polarity)



→ Volumetric

The nine curtains of the EV 400 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 EV 450 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 EV 400 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 400 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 400 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 EV 450 Plus, to ensure optimum detection on one curtain.

→ Precision mirror

The EV 400 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.

→ Accessory

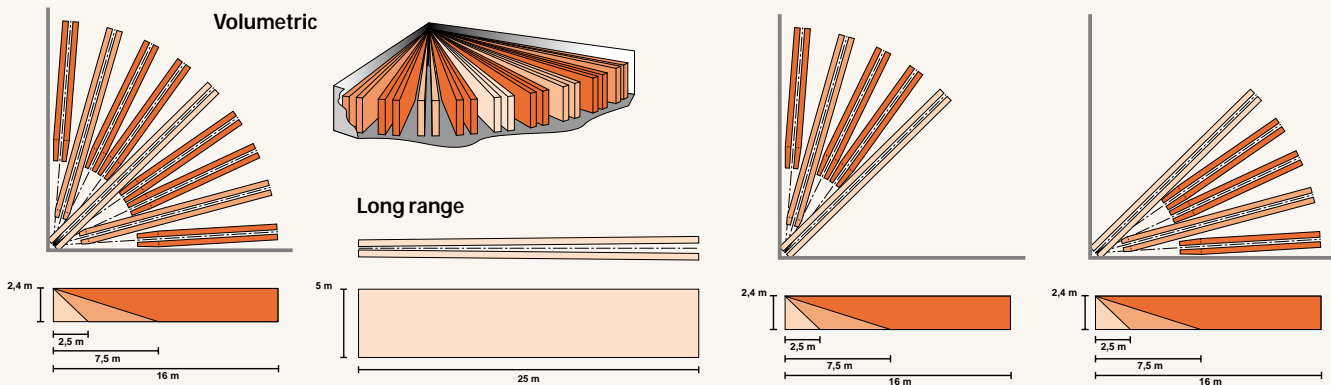
A wall and ceiling mount bracket is now available providing flexibility to install and aim the detector where required.

EV 400 Plus

→ Technical data

Supply voltage	9 - 15 V dc; Max. ripple 2 V peak to peak at 12 V dc	
Current consumption	EV 425P/435P/455P	EV 426P/436P/456P
Normal operation	9 mA	12 mA
In alarm, LED on	14 mA	15 mA
Outputs		
Alarm	NC (EV 425-P/435P/455P) or changeover (EV 426P/436P/456P), contacts rated 100 mA at 28 V dc	
Tamper	NC contact, rated 100 mA at 28 V dc	
Mounting height		
EV 420P/430P	1.8 to 3.0 metres	
EV 450P	1.8 to 5.0 metres	
Coverage		
Volumetric	9 curtains of 16 metres. Range can be reduced to 9 metres. Pattern may be adapted using mirror masks supplied.	
Long range	1 curtain of 25 metres. Range can be reduced to 15 metres.	
Environmental limits	-18° to +55° C; Max. 90 % humidity	
Field of view	86° (volumetric) - 4° (long range)	
IP-rating	IP 301	
Dimensions	103 x 71 x 51 mm	

→ Detection patterns



→ How to order

EV 425P	PIR with "Autofocus" range control, 9 curtains of 16 metres, NC relay
EV 426P	As EV 425P, but with changeover relay
EV 435P	As EV 425P, plus alarm memory
EV 436P	As EV 426P, plus alarm memory
EV 455P	PIR with "Autofocus" range control, 1 curtain of 25 metres, NC relay plus alarm memory
EV 456P	As EV 455P, but with changeover relay
ST 400	Pry-off tamper kit
SB 01	Wall/ceiling mount bracket ($\pm 45^\circ$ horizontal - 0° to 5° vertical)

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LFEV400P 03 Rev.2 0401/UK

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