

EV 400AM Series

Anti-masking PIR detectors

- Automatic reporting of masking attempts using a patented Active Infrared (AIR) Anti-Masking (AM) feature
- AM and PIR self-test outputs (distinguishable from masking condition)
- Selectable AM reporting and resetting
- 16 m volumetric or 25 long range versions
- New : 20 m volumetric version
- Precision mirrors with Gliding Focus Optics
- Latest generation "4D" signal processing providing increased environmental stability with enhanced detection capability
- Alarm memory as standard
- Selectable control logic for alarm memory and walk test LED



→ Unique Anti-Masking (Patented)

Innovation has always been a key factor in Aritech's products and this continues in the novel use of light guides in the detection of masking attempts. Light guides allow the AIR protection to follow the contours of the detector thus ensuring maximum confidence that the detector will operate.

Even the most sophisticated masking attempts made to disable the detector, using a wide range of materials, are automatically reported to the control panel. The EV 400AM operation and reporting are easily field programmable making it flexible enough to meet the requirements of any application.

As a further level of confidence, the EV 400AM performs its own regular self test of the PIR and Anti-Masking functions, reporting any discrepancy automatically to the control panel.

→ Latest generation "4D" signal processing

"4D" signal processing builds on the past success of the "3D" processing. By expanding on the environmental filtering and extending the detection algorithms, this latest generation processing further improves on the capability to determine between valid intruders and false alarm signals. Always recognising the diverse applications that have to be protected, the volumetric versions feature both 4D processing or Bi-curtain processing for the harsher environments.

→ Complete curtains of detection

The EV 400AM's curtains offer maximum detection capability throughout the protected area including full undercrawl detection. Note that with the Aritech curtains, wherever an intruder intercepts a curtain, he is 100% seen by the detector and exactly fits the curtain width, thus collecting maximum Infrared energy.

Only with Aritech's Gliding Focus Mirror optics can the definition of the parallel curtains be achieved over the entire detection range. The special characteristics of a "curtain" provide not only better detection but also increased stability and rejection of false alarms from temperature changes on floors and carpets.

→ Volumetric

The EV 435AM/436AM features 7 curtains of 16 metres, the EV 475AM/476AM features 7 curtains of 20 metres, both with simple clip-on mirror masks allows the choice of 4 volumetric coverage patterns. With true range control, the detectors can be adapted to overcome the particular false alarm hazard of oversensitivity in smaller rooms, without any loss of detection.

→ Long Range

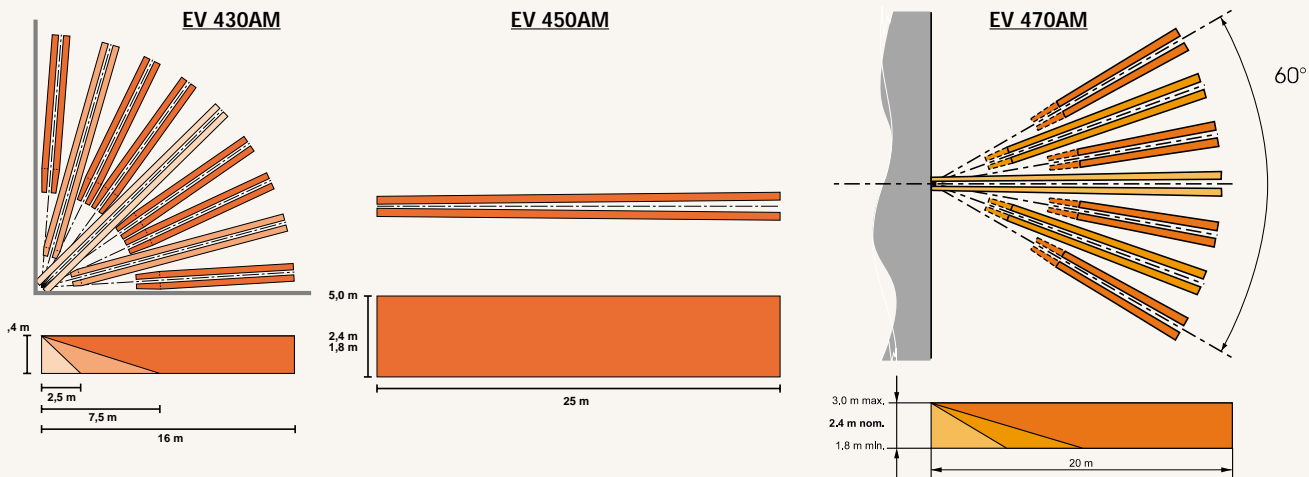
The EV 455AM/456AM features an impressive solid curtain of up to 5 metres by 25 metres. The performance of this solid curtain, achieved with the Gliding Focus Mirrors, puts this detector in a class of its own..

EV 400AM

→ Technical data

	EV 435AM/436AM	EV 455AM/456AM	EV 475AM/476AM
Supply voltage	8 - 15 V dc; Max. ripple 2 V peak to peak at 12 V dc		
Current consumption			
Normal operation	5 mA	6 mA	5 mA
In alarm, LED on	18 mA	18 mA	18 mA
Outputs			
Alarm	NC (EV 435AM/455AM, 475 AM) or changeover (EV 436AM/456AM, 476 AM); rated 100 mA at 28 V dc		
Tamper	NC; rated 100 mA at 28 V dc		
Electronic trouble (anti-mask/self-test)	Open collector output. In trouble this conducts a max of 8 mA to supply ground		
Mounting height	1.8 to 3.0 metres	1.8 to 5.0 metres	1.8 to 3.0 metres
Coverage	9 curtains of 16 metres	1 curtain of 25 metres	7 curtains of 20 metres
Field of view	86°	4°	60°
Environmental limits	-18° to +55° C; Max 90 % relative humidity		
Dimensions	103 x 71 x 51 mm		

→ Detection patterns



→ How to order

EV 435AM	Volumetric PIR, 9 x 16 metre curtains, NC alarm contact, alarm memory, AIR Anti-Masking detection, self-test feature
EV 436AM	As EV 435AM, with changeover relay contacts
EV 455AM	Long range PIR, 1 x 25 metre curtain, NC alarm contact, alarm memory, AIR Anti-Masking detection, self-test feature
EV 456AM	As EV 455AM, with changeover relay contacts
EV 475AM	Volumetric PIR, 7 x 20 metre curtains, 60° NC alarm contact, alarm memory, AIR Anti-Masking detection, self-test feature
EV 476AM	As EV 475 AM, with chargeover relay contacts

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