

EV1000 series

12m volumetric PIR motion sensor



OVERVIEW

Aritech motion sensors have the most advanced and sophisticated optics in the security industry. The EV1012 and EV012AM are powerful 12m volumetric PIRs that feature the latest optical mirror technology of the 1000 series. To increase detection coverage, the 1000 series sensors use the 3Brid orthogonal curtain design. This is a horizontal mirror structure that produces curtains with vertical orientation to detect infrared. This orthogonal invention is the key in adding curtains to the mirror without sacrificing signal strength, nor increasing the size of the sensor. The EV1012 and EV1012AM produce 9 continuous curtains at 12m distance.

The EV1000AM series incorporates industry leading anti-masking via active infrared technology. This advanced technology protects from the most advanced sabotage attempts including device penetration as well as wood, metals, ceramics, cardboard, paper, glass, PVC, spray-paint, lubricants and many other masking substances. The addition of dynamic pyro and circuitry diagnostics further ensure that the devices have not been tampered and are always in their correct operational state.

PIRs of the 1000 series are the most rewarding sensors to install. They tolerate wall angle deviation and different mounting heights as well as limited loss of coverage when objects are placed in the field of vision. To make life easier no range setting is required thanks to constant range sensitivity while plug-in electronics make commissioning simple.

FEATURES

- Passive Infra Red motion sensor
- 3Brid Step & Gliding Focus Curtain mirror
- Plug-in electronics
- Sealed optics
- "5D" signal processing for false alarm immunity
- 15kg pet tolerance (PI version only)
- Under crawl detection
- Selectable coverage pattern using mirror masks
- Auto focus with constant range sensitivity
- No adjustment required for different mounting heights
- Tolerates wall angle deviation
- Certified EN50131-2-2 Grade 2
- Several European approvals

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THE 1000 SERIES

The 1000 series are part of the Aritech range of motion sensors. This family includes motion sensors with variants in housing size, detection range, anti-masking, dual detection technology, addressable interfacing, wireless transmission and more. This range covers all applications where security needs to be safeguarded. The consistent family aesthetics between the various models ensure a professional approach when installing different sensor types.

SPECIFICATIONS

	EV1012	EV1012AM	EV1012-PI
Detection range	12m	12m	12m
Undercrawl protection	Yes	Yes	Yes
Sensitivity	Normal / High	Normal / High	Normal / High
Coverage field of view	86° with 9 curtains	86° with 9 curtains	86° with 9 curtains
Coverage pattern selection	Curtain labels	Curtain labels	Curtain labels
Mounting height	1.8 to 3.0 m	1.8 to 3.0 m	2.3 to 3.0 m
Power supply	9 to 15 VDC	9 to 15 VDC	9 to 15 VDC
Current consumption (nom.)	4.4 mA	11 mA	4.4 mA
Alarm relay (voltage free)	NC when energised	NC when energised	NC when energised
Tamper relay (voltage free)	NC when cover closed	NC when cover closed	NC when cover closed
Remote control lines	Walk test	Walk test	Walk test
Alarm memory	No	No	No
PIR signal processing	5D	5D	5D
Dimensions (W x H x D)	108 x 60 x 46 mm	108 x 60 x 46 mm	108 x 60 x 46 mm
Ambient conditions	-10 to +55°C 95% relative humidity	-10 to +55°C 95% relative humidity	-10 to +55°C 95% relative humidity
Pry-off tamper	Optional (ST400)	On board	Optional
EN50131-2-2	Grade 2	Grade 3	Grade 3
Pet tolerance	n/a	n/a	15 kg

ORDERING INFORMATION

EV1012	12m volumetric motion detector with 9 curtains, DSP
EV1012AM	12m volumetric motion detector with 9 curtains and anti-masking, DSP
EV1012PI	12m volumetric motion detector with 9 curtains and anti-masking, DSP, pet immune (up to 15kg)
SB01	Wall/ceiling mount bracket ($\pm 45^\circ$ horizontal, 0° or -5° vertical)
ST400	Pry-off tamper kit

