



English

MOUNTING INSTRUCTIONS.

- Lift off the insert ① as shown (fig. 1 a & b).
- Open the detector ② & ③ (fig. 2).
- Break out one or both cable entry hole(s) ④ as required (fig. 3).
- The detector should be mounted at a height of 1.8 to 3.0 meters (fig. 11 & 12).
- Select mounting holes for corner ⑤ or flat wall ⑥ mounting (fig. 3) .
- Use the base as a template for marking screw hole locations on the wall.
- Fasten the base to the wall.
- Strip cable for 5 cm and pull it through the cable entry hole(s) ④ and strain relief ⑦ (fig. 3).
- Wire detector as shown (fig. 7).
- Mounting hole for swivelbracket ⑧ (fig. 3).
- Place cover ② in base ③ (fig. 8), insert screw ⑨ (fig. 3) and place insert ① (fig. 1 b).

SITING THE DETECTOR (fig. 4 - 6 & 11 - 12).

Install the detector so that the expected movement of an intruder will be across the fields of view. This is the direction best detected by PIR detectors.

Avoid possible false alarm sources such as:

- * Direct sunlight onto the detector.
- * Heat sources in a field of view (heaters, radiators, etc.).
- * Strong air draughts onto the detector (fans, air-conditioning etc.).
- * Large animals (dogs, cats) in a field of view.

Aritech recommend that the detector is regularly **walk tested** and checked back at the control panel.

EV 100(PI) ONLY (PI = PET IMMUNITY) (fig. 13 & 14).

This detector is designed to be immune up to certain size of pets. Pets up to 20 Kg normally will not cause any problems in standard applications. Larger pets can be allowed for by alternative mounting PI-detector upside down at 90 cm from floor. Advised minimum mounting height in PI-application: 2.4 meter.

LED FUNCTION AND REMOTE CONTROL OF LED (fig. 7).

To walk test the detector make sure the wire jumper (from terminal 1 to 7) J2 is on the connector, or terminal 7 is remotely connected to system ground.

PROGRAMMING THE SENSITIVITY (PROCESS MODE) AND RANGE (fig. 7).

Sensitivity is programmed according to the position of jumper J1.

3D+. STANDARD SENSITIVITY: Suitable for most wide-angle applications and for single curtain pattern.

Bi-C. BI-CURTAIN MODE: In this setting an extra level of processing is applied to provide enhanced stability in the presence of false alarm hazards in smaller areas. Not suitable for single curtain applications or a range less than 1.5 metres (fig. 11 & 12).

Note: *Bi-Curtain* is used to reduce the possibility of false alarms. It looks for signal verification and requires the intruder to be seen in **two** curtains for an alarm. Not to be used in undercrawl and long range application.

Program the range at jumper J2.

For range under 6 metres for *EV100(PI)* and to 7 metres for *EV105* or for 10 metres for *EV100(PI)* and to 12 metres for *EV105*. It is important to program the sensor correctly for optimum sensitivity.

EV100(PI)

PROCESS MODE	PIR RANGE
Program the mode at jumper J1	Program the range at jumper J2.
3D+ (Standard)	10 m = range set to 10 m.
Bi-C (Bi-Curtain)	6 m = range set to 6 m.

EV105

PROCESS MODE	PIR RANGE
Program the range at jumper J1	Program the range at jumper J2.
3D+ (Standard)	12 m = range set to 12 m.
Bi-C (Bi-Curtain)	7 m = range set to 7 m.

Always select the appropriate range setting for the dimensions of the to be protected area.

Verify coverage pattern and adjust if required.

WINDOW MASK (fig. 9).

The mask is of factory fitted to the inside of the window as shown and is used to mask objects which are in the presence or close to (within 1.5 m) and directly under the detector.

This disables the part of the curtains looking at the object, whose closeness might otherwise destabilize the detector.

Remove this mask to create undercrawl detection.

Technical data:	EV100(PI)	EV105
Input power	9-15 V $\overline{\text{---}}$ (12 Vnom.)	9-15 V $\overline{\text{---}}$ (12 Vnom.)
Peak to peak ripple	2 V (at 12 V $\overline{\text{---}}$)	2 V (at 12 V $\overline{\text{---}}$)
Current consumption		
Normal operation	5.0 mA nom.	5.0 mA nom.
Alarm	7.0 mA max.	7.0 mA max.
Mounting height	min. 1.8 - max. 3.0 m	min. 1.8 - max. 3.0 m
Target speed range	min. 0.2 - max. 4.0 m/s	min. 0.2 - max. 4.0 m/s
Alarm output	100 mA at 28 V $\overline{\text{---}}$	100 mA at 28 V $\overline{\text{---}}$
Tamper output	100 mA at 28 V $\overline{\text{---}}$	100 mA at 28 V $\overline{\text{---}}$
Alarm time	2.5 sec. minimal	2.5 sec. minimal
Walk test	0 V $\overline{\text{---}}$ to terminal 7	0 V $\overline{\text{---}}$ to terminal 7
Temperature limit	-10 °C to +55 °C	-10 °C to +55 °C
Relative humidity	30 to 95 %	30 to 95 %
Size	98 x 51 x 47.5 mm	98 x 51 x 47.5 mm
Weight	150 g	150 g
Mirror type	5C90D47 (5C90D47PI)	7C90D47
Number of zones	5 at 10.0 m	7 at 12.0 m
View angle	86 °	86 °
Housing meets (with sealed cable entry)	IP30 IK02	IP30 IK02
Pet Immunity	Yes EV100PI only	No

