

By-alarm Plus passive infrared and microwave dual technology detector, with anti-blinding, 120° coverage up to 12m, high (2.2-2.7 metres) or low (0.8-1.2 metres) mounting, can be set for PET immunity, IP54, 1 NO and NC 28 VDC 0.1 A relay output, 9.5-16 VDC power supply with 30 mA 12V, surface mounting, for outdoor use.

The device is designed to cover a detection area of up to 12 metres and over 120 degrees, which can be adjusted with the masking labels supplied. It can be installed at a height of between 2.2 and 2.7 metres creating a Multibeam volumetric detection model which allows small animals to be ignored; vice versa, in the case of environments with larger animals, the detector can be mounted at a height of between 0.8 and 1.2 metres to provide a "corridor" for pets. The device is not affected by the environment or by small animals; the alarm will not be triggered by climate changes, swaying vegetation or animals near the detection area, contributing to a reliable outdoor detection. There is also a dual conductive shielding that filters out visible light and radio frequency interference (RFI).

CHARACTERISTICS

- Power supply: 9.5-16 VDC
- Absorption: 30 mA a 12 VDC
- Detection mode: passive infrared and microwave
- PIR cover: 12 m, 120° wide
- PIR zones:
 - 40-zone multibeam
 - 18-zone PET mode
- Alarm output: 28 VDC 0.1 A (max), [NO or NC] selectable
- Fault output: NC 28 VDC 0.1 A (max)
- Tamper output: NC 28 VDC 0.1 A (max), open when the front cover is opened
- Detectable speed: from 0.3 to 2 m/s
- Sensitivity: 2°C (at 0.6 m/s)
- Alarm duration: 2 ± 0.5 s
- Initialisation time: approximately 60 s
- Operating temperature: - 30..+ 60 °C
- Ambient humidity: 95%
- Protection degree: IP54

LED SIGNALLING

Red side LED:

- permanently lit -> Alarm
- flashing -> Blockage detection and initialisation phase



INSTALLATION RULES

- Installation must be carried out by qualified persons in compliance with the current regulations regarding the installation of electrical equipment in the country where the products are installed.
- Install the detector in a place where no cause for false alarms is present, such as:
 - sunlight and reflections;
 - heat sources;
 - moving objects or objects which the wind may move.
- The ideal installation height is between 2.2 to 2.7 m in Multibeam mode and between 0.8 and 1.2 m in PET mode with the base of the detector always parallel with the wall.
- In PET mode, remove the detection of the lower area so that small animals are not detected.

REACH (EU) Regulation no. 1907/2006 – Art.33. The product may contain traces of lead.

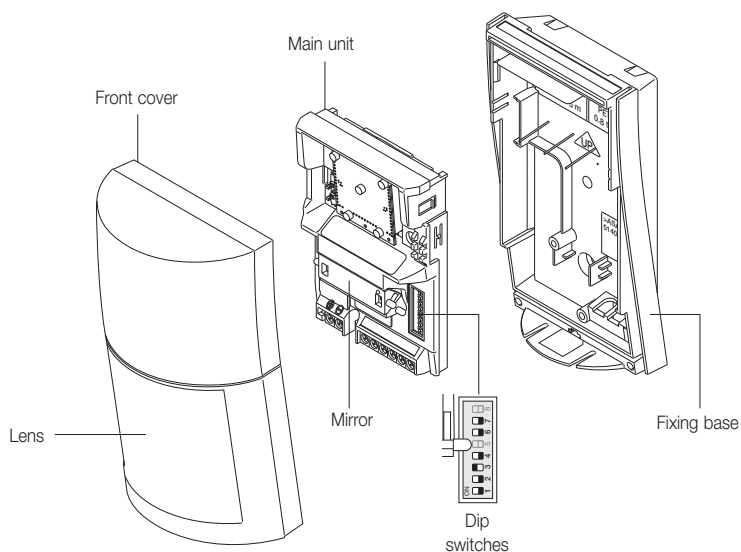


WEEE - User information

The crossed out bin symbol indicates that the product must be sent to separate collection facilities for recovery and recycling, in compliance with the national laws of EU Countries that implement the WEEE Directive. The objective is to prevent any harmful effects on the environment and on human health by ensuring that products are disposed of correctly, avoiding illegal disposal sanctioned by law.

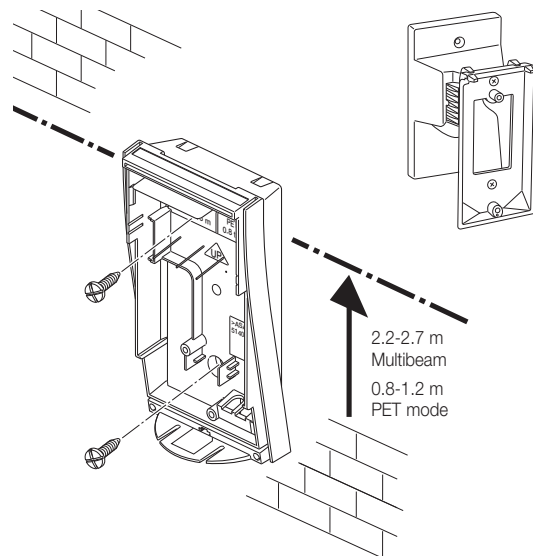
To dispose of the product correctly, please check local dispositions in your country.

THE DETECTOR



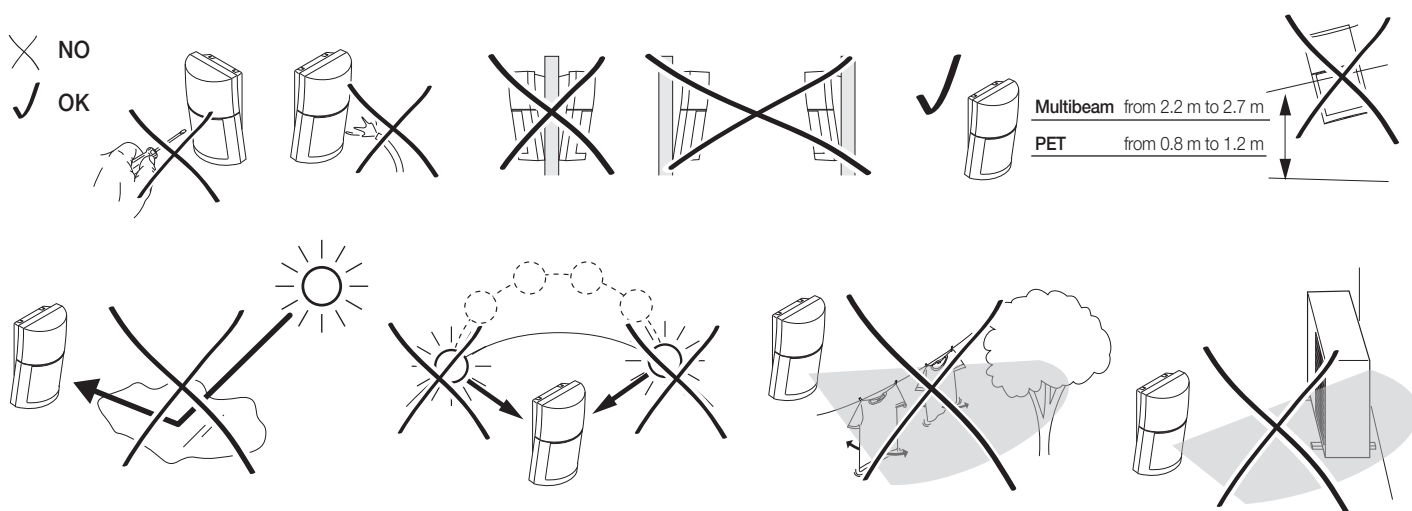
MOUNTING HEIGHT

The detector can also be installed using the bracket 01742.S



WARNINGS

✗ NO
✓ OK



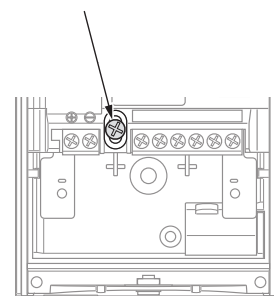
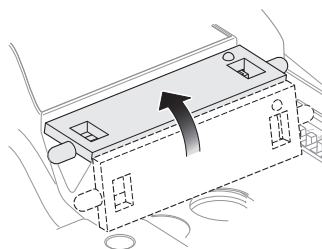
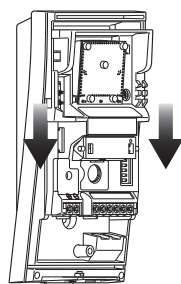
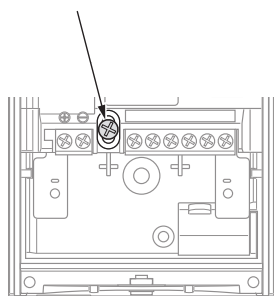
In PET mode, which is activated by moving the position of the mirror (see below), the anti-blockage function cannot be used

1. If it is used, loosen the blocking screw

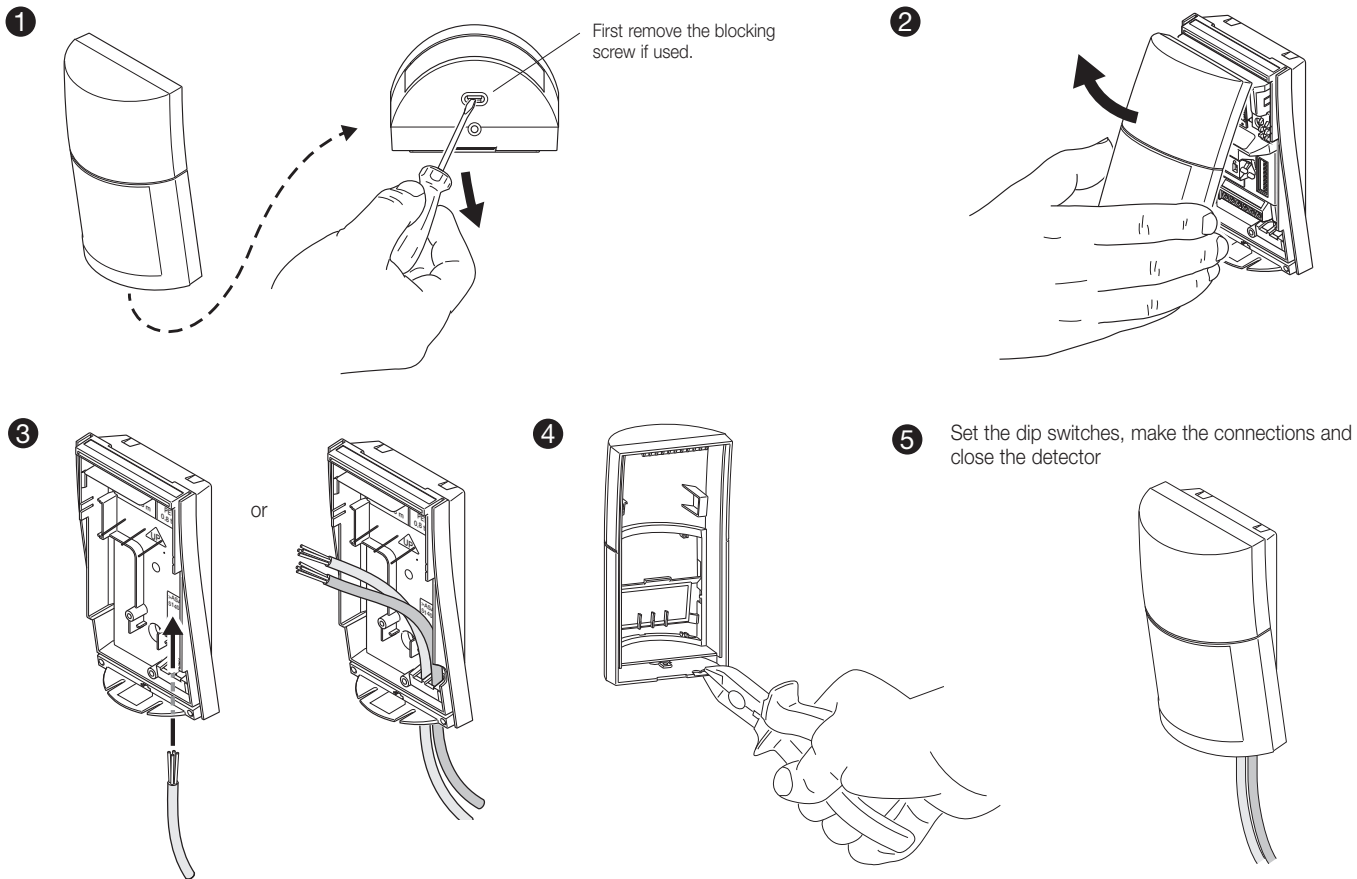
2. Slide down the main unit until you hear the plastic click

3. Raise the mirror to the fixing position

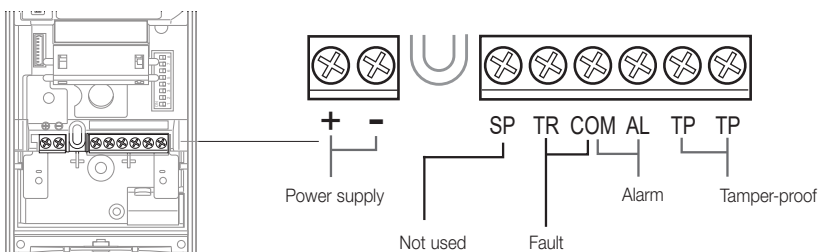
4. Tighten the blocking screw



INSTALLATION



CONNECTIONS

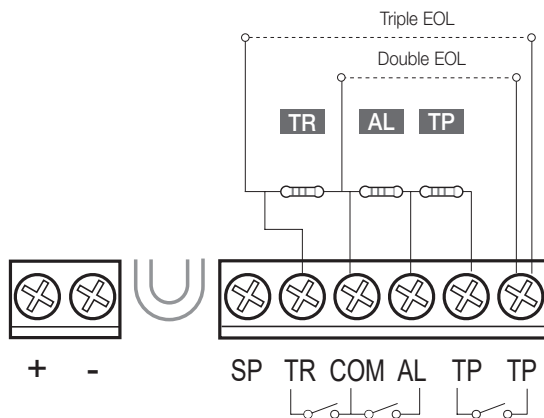


Power supply cable

Section	Max. length
0.5 mm ²	270 m

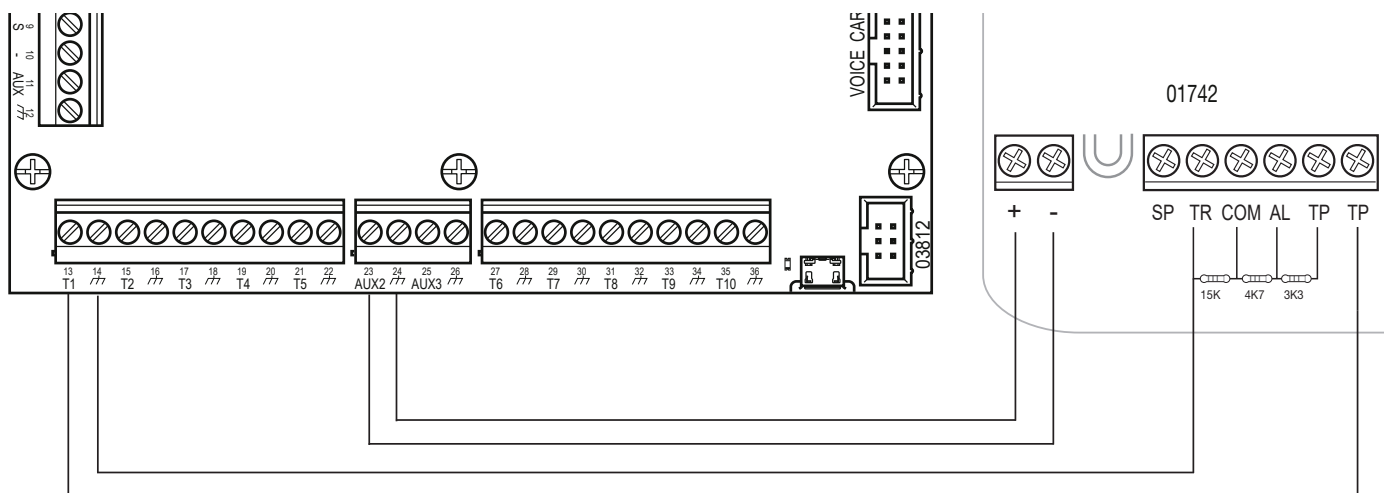
Double and triple balancing

TR: Masking
AL: Alarms
TP: Tamper-proof



Connection to the By-alarm Plus control unit (triple balancing example)

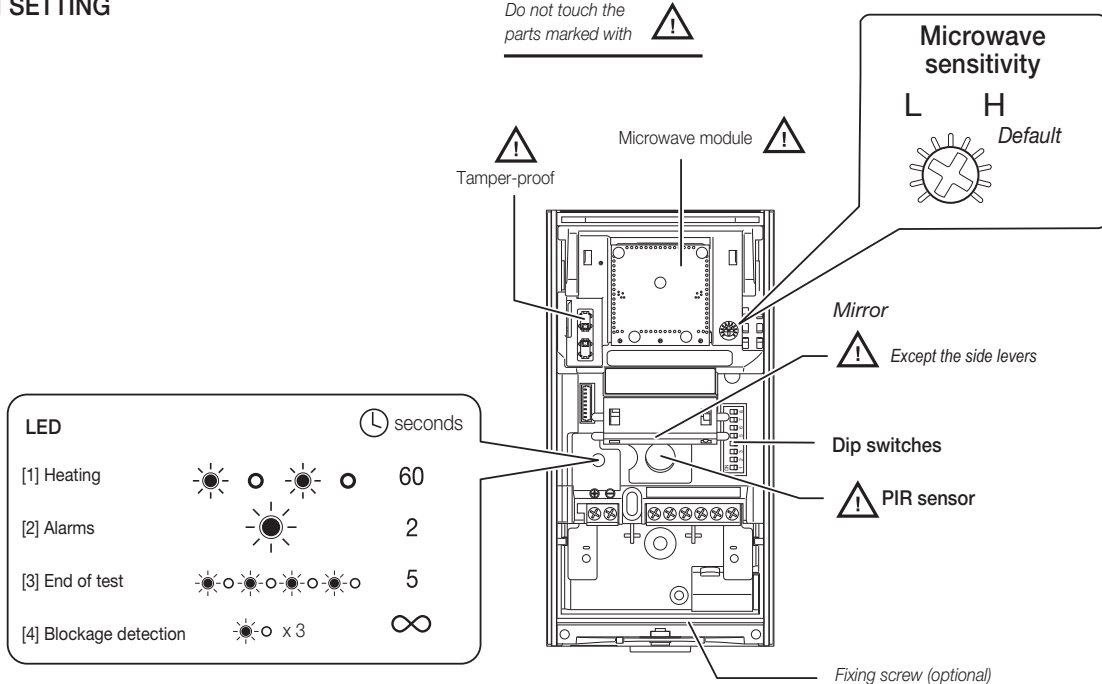
The AUX2 output must be suitably configured to supply power



IMPORTANT: If using expansions 03808 and 03819 the connections to make are the same.

DIP SWITCH SETTING

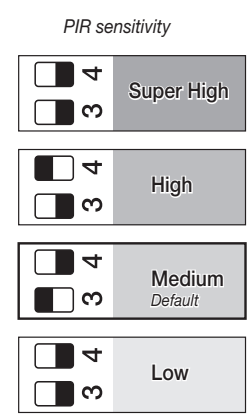
Do not touch the parts marked with



LED	seconds
[1] Heating	60
[2] Alarms	2
[3] End of test	5
[4] Blockage detection	∞

Dip switch	ON	OFF
8 - Future use		
7 - Anti-blockage sensitivity *	HIGH	LOW
6 - Anti-blockage *	ON	OFF
5 - Not used		
4 -		
3 - See PIR sensitivity on the right		
2 - Alarm output	N.O.	N.C.
1 - LED	ON	OFF

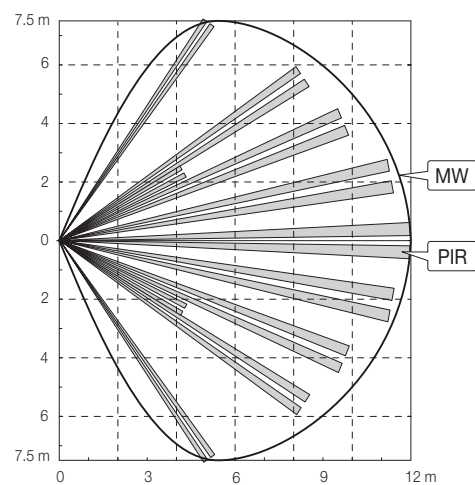
Default



*Objects moving near the detector could affect the correct operation of the anti-blockage.

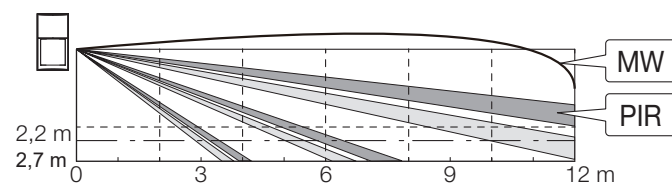
COVER DIAGRAMS

Top view

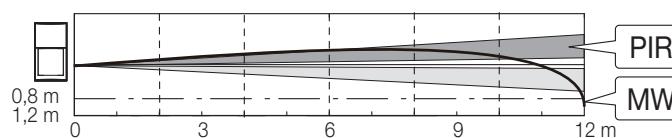


Side view

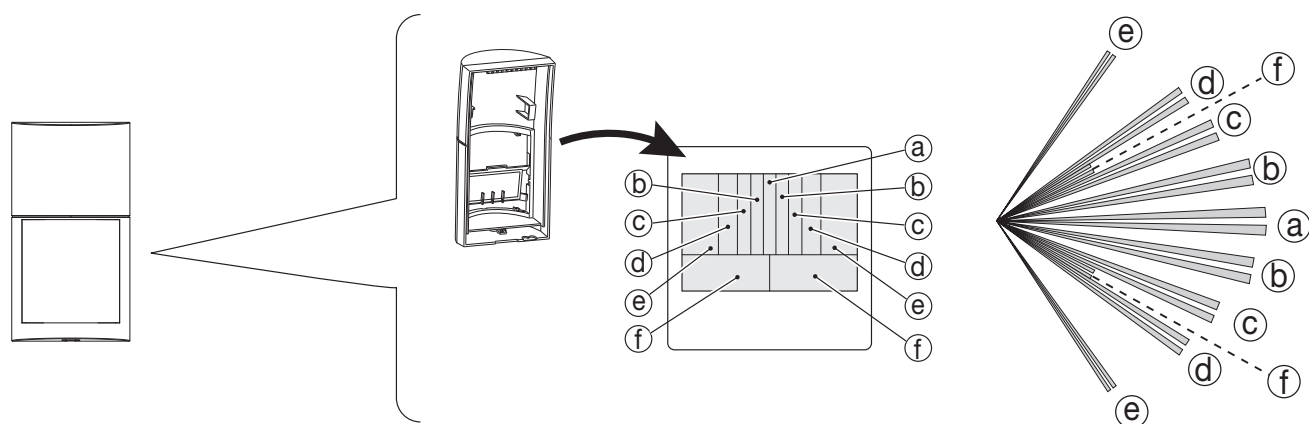
Multibeam



PET mode

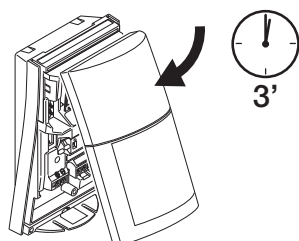


MASKING LABELS

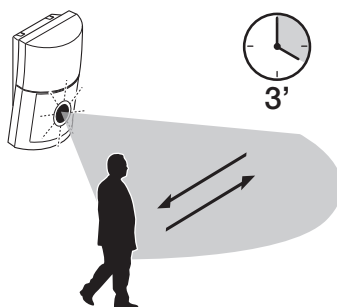


WALK TEST

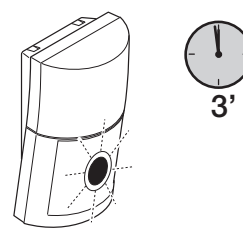
1 Close the cover



2 Walk test (3 minutes)



3 End of the Walk test



The LED flashes 5 times

NOTES

- With the cover open, the tamper is activated; this enables the LED function regardless of the setting of the dip switch [1].
- When the cover is closed, the Walk test timer starts and automatically returns to normal mode after 3 minutes.
- If the main unit is on with the cover closed, it will not go into Walk test mode. Open and close the cover once to activate the timer.