



TRIPLE TECHNOLOGY DETECTOR

Art. 9448



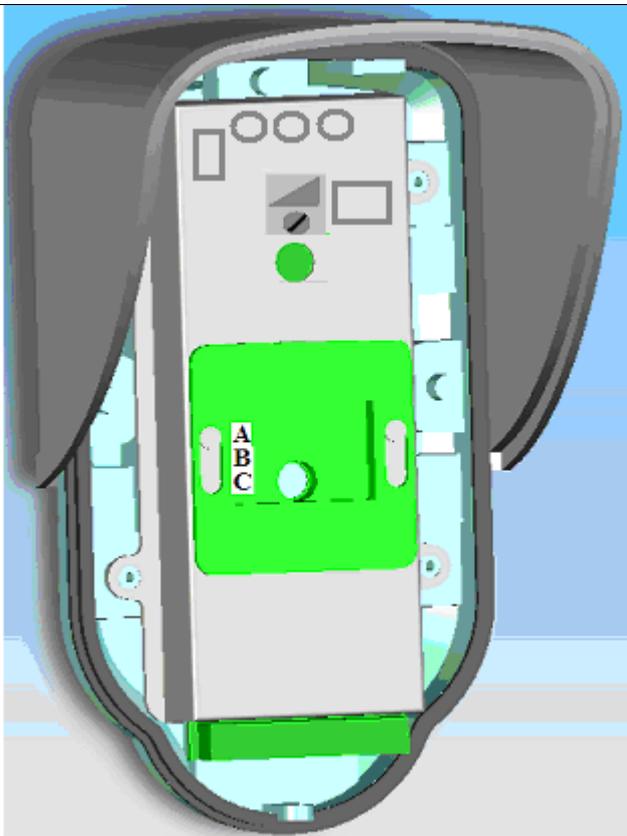
CE

MADE IN ITALY

TECHNICAL SPECIFICATIONS

Installation on the wall	Coverage 15 mt, angle 90°
Frequency microwave	10.525 GHz
Alarm technology	DSP(Digital Signal Processing)
Detecting distance	From 3 to 15 mt
Detection areas	8 areas for each sensor
Installation height	0,8-1,4 m (reccomended 1mt)
Detecting mode	Selectable: AND-OR
Power supply	From 10,5 to 14 VDC
Power consumption	Standby < di 1.5 mA
Max power consumption	12 mA X 4 SEC
Relay contact	NC 100mA
MW range adjustment	By trimmer
Alarm time	1,2 sec
Light indicators	Red IR upper, Red IR lower, yellow microwave
Detecting speed	from 0.2 to 3.5 m/s
RFI/EMI immunity	3 V/m between 0.1MHz-500MHz
Light immunity	>10000 Lux
Programming	by dip Switch
Operating temperature	From -10°C to +55° C
Protection rating	IP54

DESCRIPTION

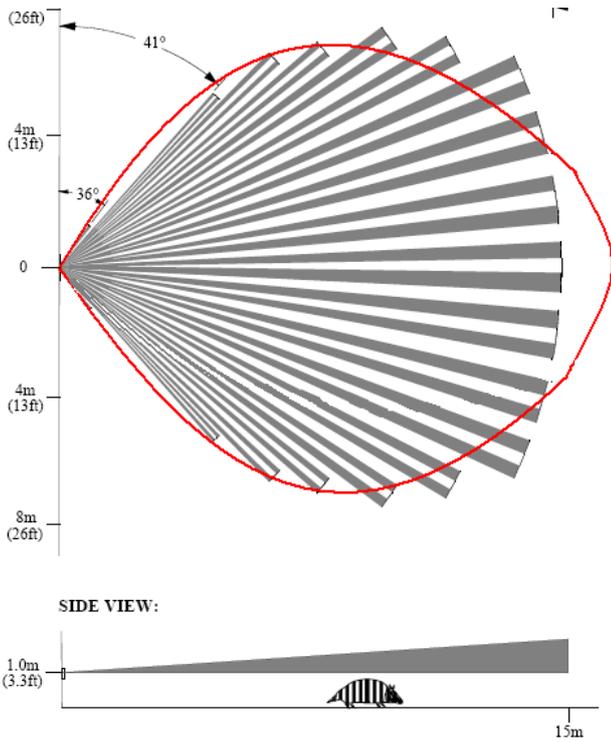


Triple Technology Outdoor Detector. TWIN-X

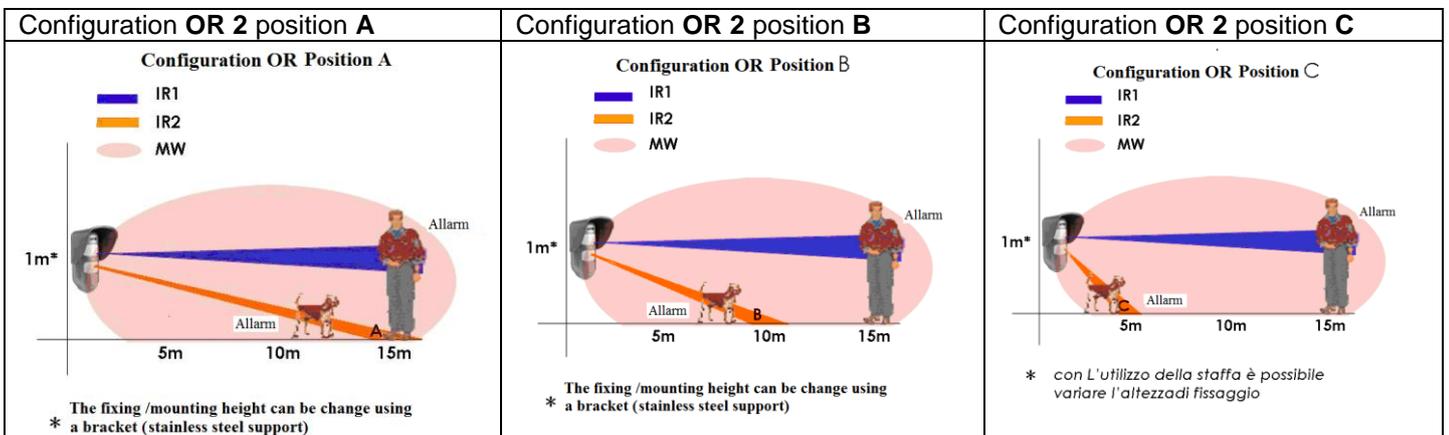
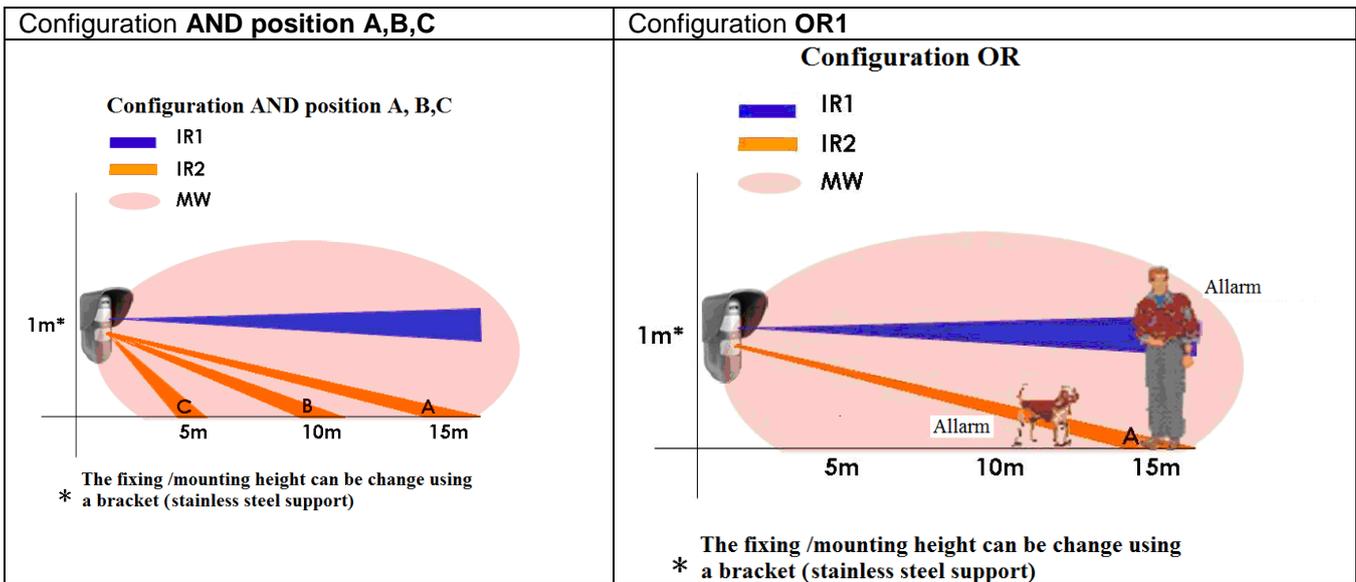
PIR sensitivity automatic adjustment with temperature, light and speed changes.

Lower sensor adjustable height in order to adjust the range and to reduce the false alarm, with three inclination angles A-B-C

COVERTURE DIAGRAM



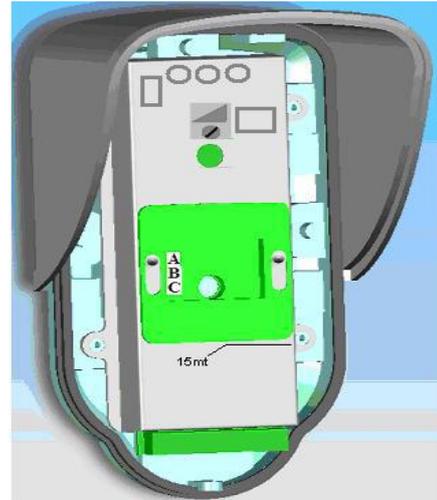
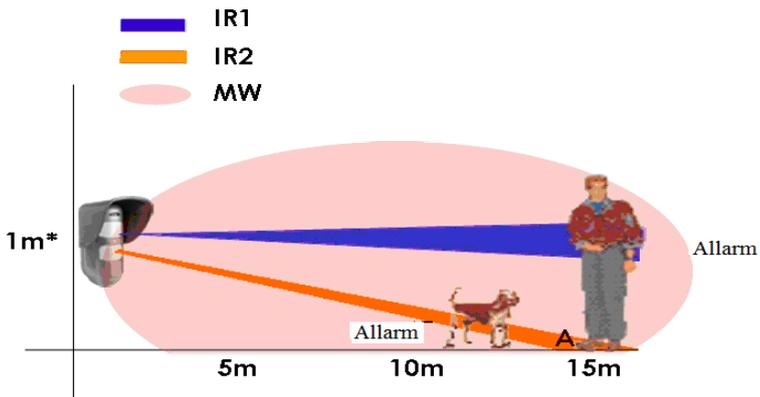
Detection plan view.
The microwave detection covering area is in red.



DETECTION

Configuration AND position A

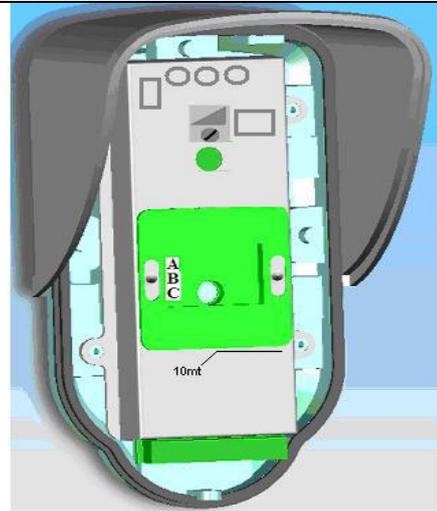
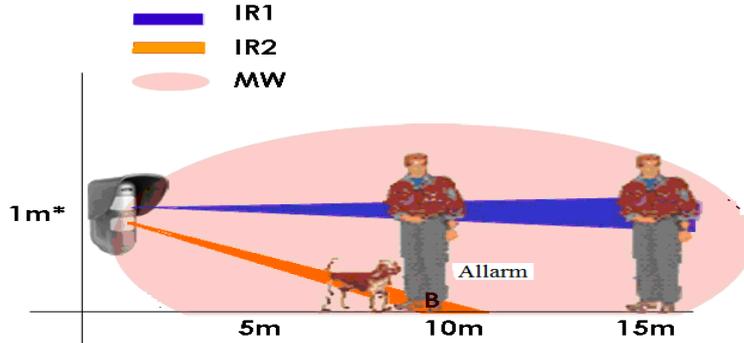
Configuration AND position A



The fixing /mounting height can be change using a bracket (stainless steel support)

Configuration AND position B

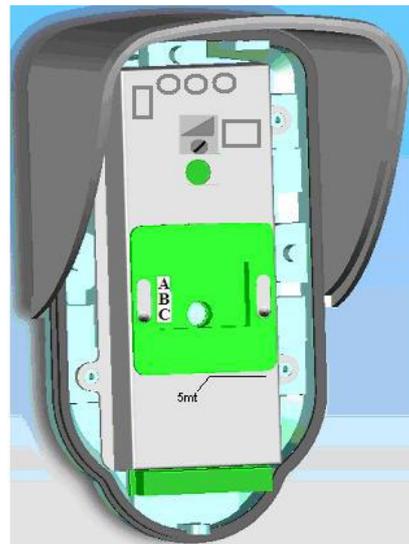
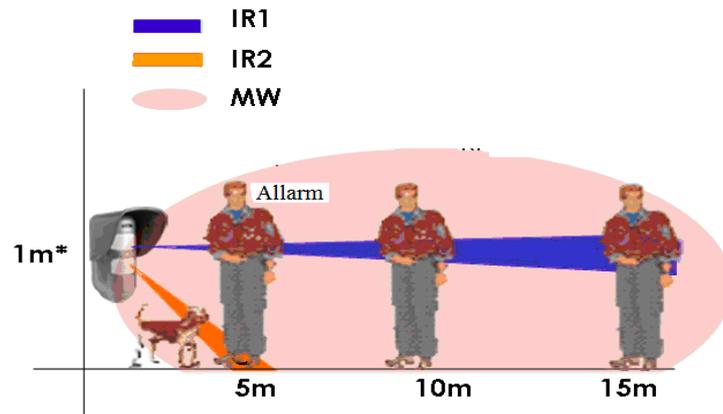
Configuration AND position B



The fixing /mounting height can be change using a bracket (stainless steel support)

Configuration AND position C

Configuration AND position C



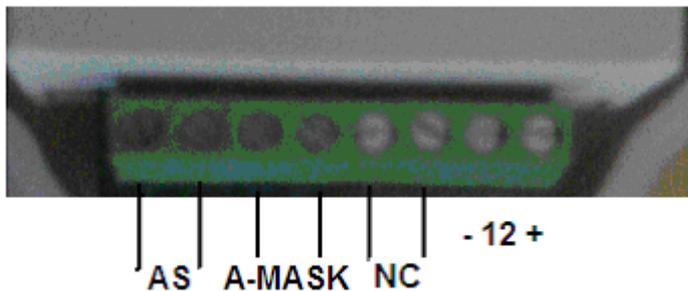
The fixing /mounting height can be change using a bracket (stainless steel support)

INSTALLATION METHOD

For a correct working of the Triple Technology Detector you have to know that:

- The microwave is sensitive to any movement, do not point the sensor towards hedges or tree branches. Adjust the range rightly.
- Metal surfaces reflect the microwave modifying the range
- The two passive infrared sensors are sensitive to rapid temperature changes. Avoid to direct the sensor towards the sun (point the sensor directly to the sun). In presence of animals adjust the detection angle rightly.
- The detector has a regulation time of around 1 minute at the first functioning.

Terminal block



DETECTING OPTIONS



From the factory the programming DIP are set like in the figure.

DIP1

LED

With this DIP are activates or de-activates the LED indicators with DIP1=ON alarm conditions are activates, with DIP1=OFF alarm conditions are de-activates.

DIP 2 ANTI MASK

Setting the DIP 2 Off we exclude anti-masking.

Set dip 2 in ON you turn on the front masking infrared active

If the dark field detection sensor and the dip 2 is ON, in a maximum time of 10 seconds generates a tamper alarm (the output-mask open) and remains in alarm as long as it remains the cause .

DIP3 AND

This function is activated setting DIP 3 in Off position. In this configuration, when the two infrared sensors and the microwave sensor detect a movement, the detector, will produce an alarm. This mode is recommended in external environments with unstable elements that could be produce false alarms.

OR

This mode is activated setting DIP 3 in Off position. In this configuration, when one of the two infrared sensors and the microwave sensor detect a movement, the detector will produce an alarm. It is recommended in completely external environments and in presence of small animals.

With this mode every small movement is detected.

DIP 4 MICROWAVE DE-ACTIVATION

DIP 4 in OFF. Microwave active.

DIP 4 in ON . Microwave de-activate.

This mode refers to the microwave alarm detection.

In particularly narrow environments (such as garage passages, gardens pedestrian areas) it is recommended setting DIP 4 in On position in order to have the infrared sensors detection only. If you use this mode, you will always set DIP 3 in Off position (AND mode).

Let DIP 5 in ON position.

WORKING/OPERATING TEST

Setting Dip 1 in ON position

Check and adjust the covering area (see the previous diagram)

Move into the protecting area and check the specific indicators (LED) switching on.

Considering that the two infrared sensors are sensitive to the across and not to the approach.

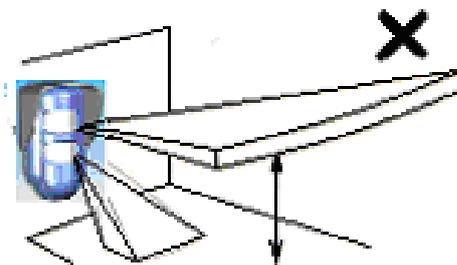
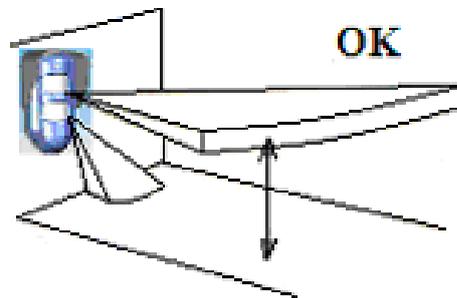
If the detection do not meet the own needs you will adjust the microwave range by the trimmer (to put up turning in an anticlockwise direction and to put down turning in an clockwise direction) or you will adjust the sensor inclination angle. N.B. When the microwave detect a movement too, the detector will produce an alarm, the microwave is always turn off, it is activated with AND mode if both the two infrared sensors detect an alarm. With OR mode if one of the two infrared sensors detects an alarm.

INSTALLATION TIPS

1. Perpendicular installation

Install the detector perpendicularly to the ground in order to have the upper detection area parallel to the ground.

If the detector is not perpendicular, its correct working can be reduce

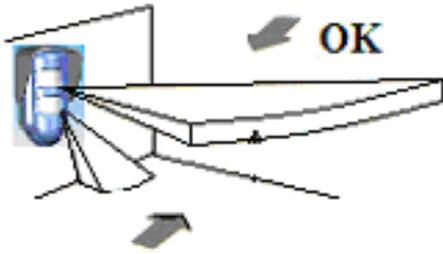


2. Installation height

The installation/mounting height must be between 0,8 and 1,4 mt.

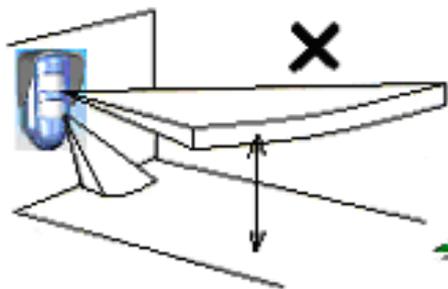
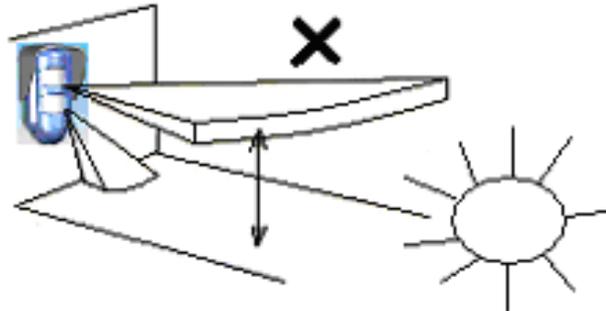


3. Across, lights, moving objects



Fix the detector in order to cross the covering area

Avoid to direct the detector towards the direct sunlight or towards others sources of lights



Moving objects

Caution /Take note

In presence of hedges or bushes, cover the beams infrared lens corresponding to the plants like in the figure.

