Art. EWP-EXT

Low Consumption Universal Wireless Triple Technology Detector

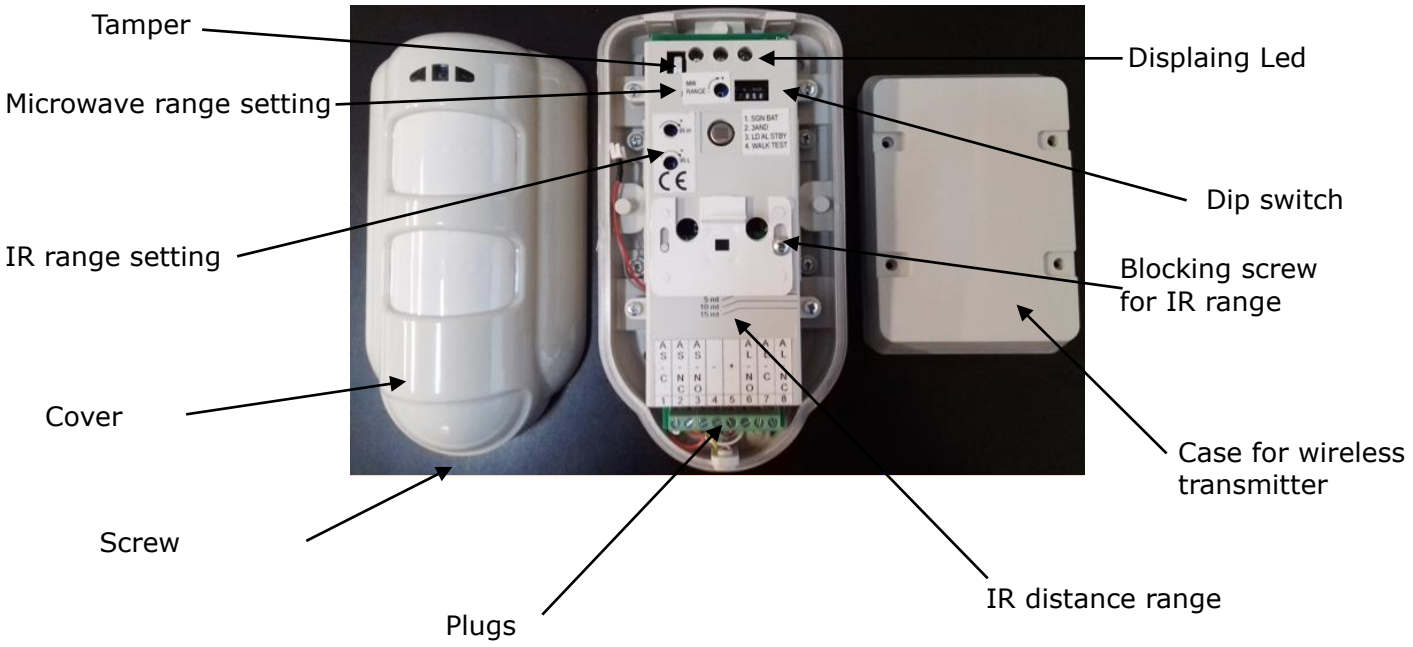
INSTRUCTION MANUAL

Rev.1219MM

Features:

Installation on the wall	Coverage 15 m, angolo 90°
Frequency microwave	10.525 GHz
Alarm technology	DSP(Digital Signal Processing)
Detecting distance	From 5 to 15 m
Detection areas	8 zones for every detector
Installation height	0,8-1,4 m (suggested 1m) 2,1 m (with braket)
Detecting mode	Selectable: AND or triple AND
Power supply	3-10 Vdc
Protection polarity inversion	Yes
Low battery display	Yes, via led, minumum 2,7 V (tipical)
Stand by consumption	< 12 uA
Max consumption	35 mA
Alarm contact	NC-NO 50mA
Microwave setting	Trimmer
Alarm time	2 s
Displaing Led	Blue: alarm Red: IR up and down Yellow: Microwave
Detection Speed	Between 0.2 and 3 m/s
RFI/EMI Immunity	10 V/m tra 0.1MHz-2 GHz
Light Immunity	>10000 Lux
Tamper	NC-NO 100 mA
Programming	By dip Switch
Working temperature	Da -20°C a +60° C
IP Protection	IP54
Autocompesation IR	Yes, both
Warm up time	60 s
Inhibition time	3 minutes

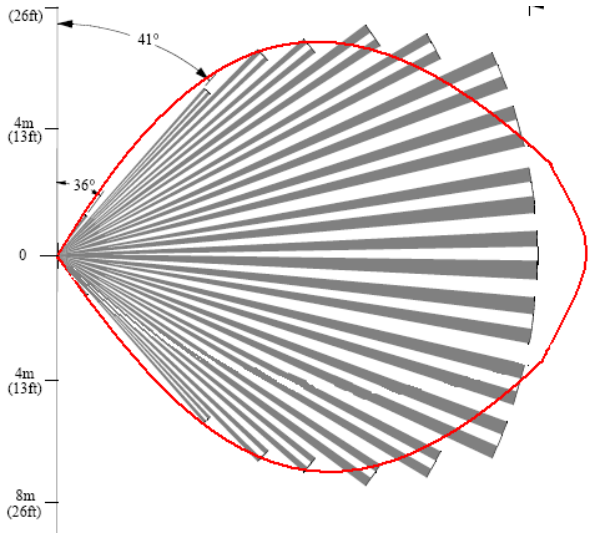
Item description:



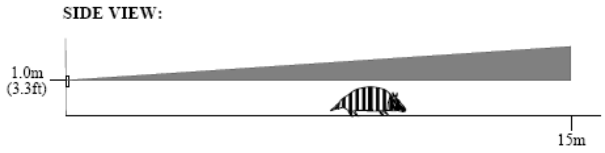
Triple technology outdoor detector made with double infrared sensor and microwave.
Adjustment of microwave flow by trimmer placed inside.

Height adjustment of the lower PIR sensor to perfectly adjust the flow and reduce false alarms, with three angles of inclination A - B - C.
Immune to animals weighing less than 20 kg and height less than 80 cm if placed in AND and installed at 1 m height

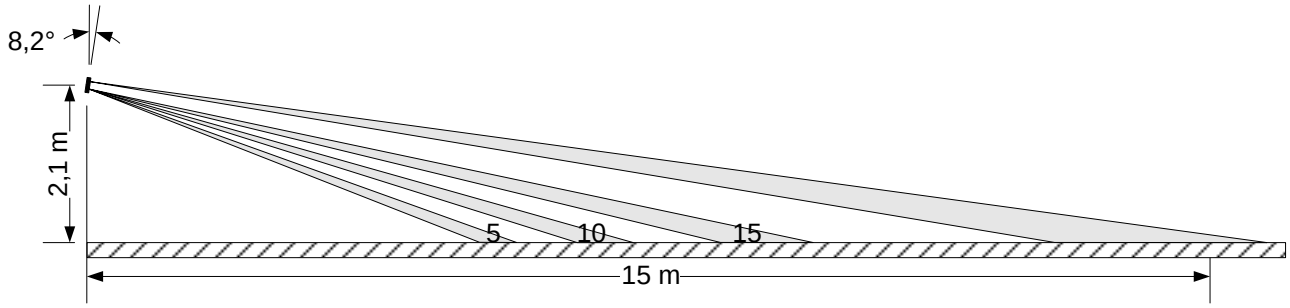
Coverage diagram:



Plant view

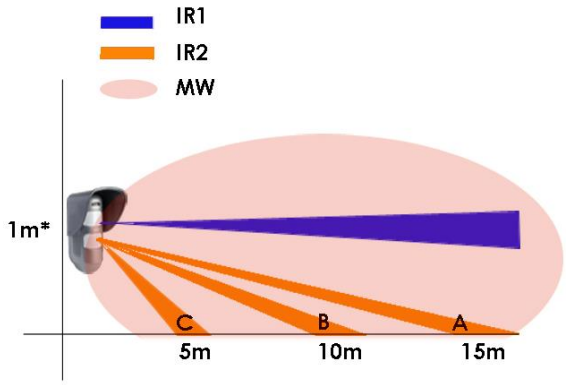


Side view at 1 mt mounting



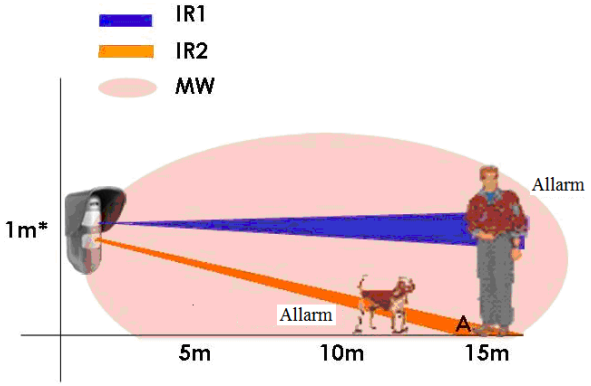
Side view at 2,1 mt mounting with bracket

Triple AND configuration. Position 5-10-15m



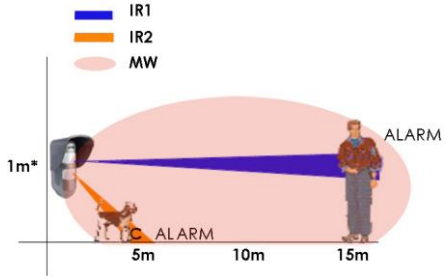
Using the bracket you can change the height of fixing

Double AND configuration



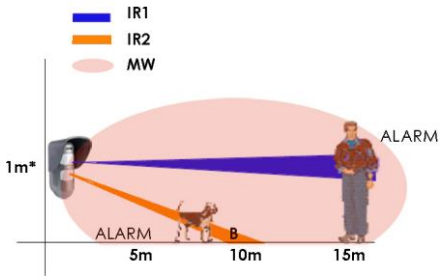
Using the bracket you can change the height of fixing

2AND configuration pos. 5



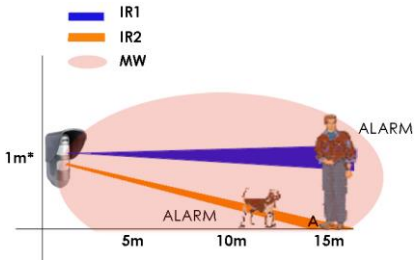
Using the bracket you can change the height of fixing

2AND configuration pos. 10



Using the bracket you can change the height of fixing

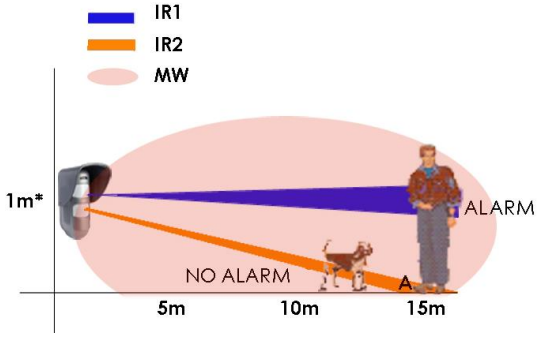
2AND configuration pos. 15



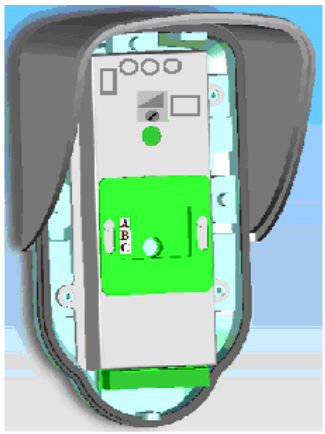
Using the bracket you can change the height of fixing

Detections :

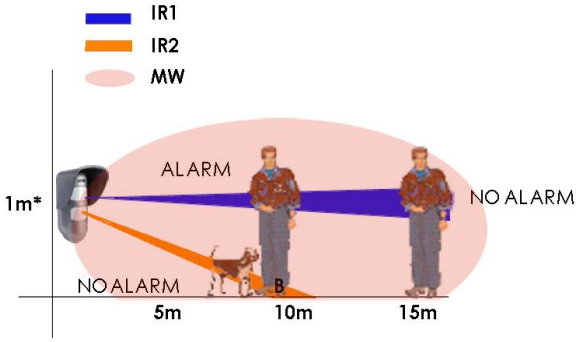
AND configuration (3AND) pos. 15m



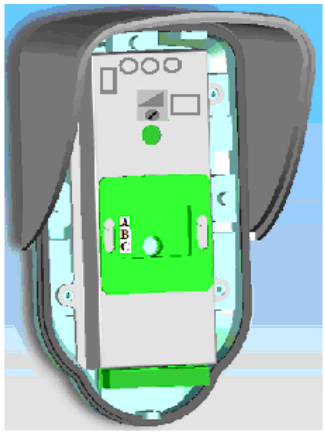
Using the bracket you can change the height of fixing



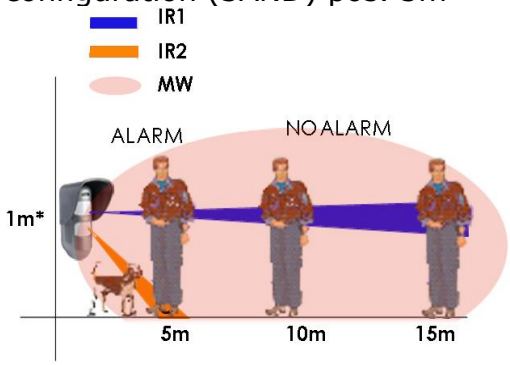
AND configuration (3AND) pos. 10m



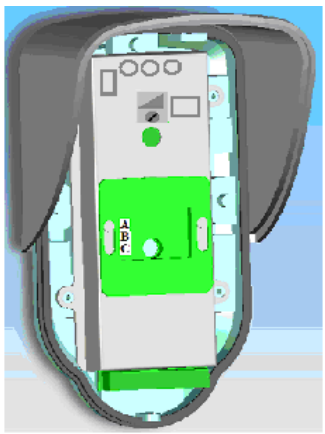
Using the bracket you can change the height of fixing



AND configuration (3AND) pos. 5m



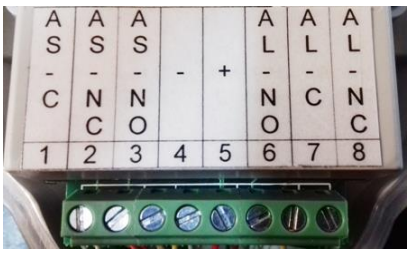
Using the bracket you can change the height of fixing



Installation

For a correct functioning of the triple technology detector it is necessary to know that:
• The microwave is sensitive to any movement, never point the detector towards hedges or tree fronds. Adjust the flow rate appropriately.
• Metal surfaces reflect the microwave by changing its flow rate.
• The two passive infrared sensors are sensitive to sudden thermal variations. Avoid pointing the detector directed towards the sun. In the presence of animals, adjust the detection angle appropriately and always use the triple AND (3AND) condition.
• The detector at the first power supply has a stabilization time of about 1 minute.

Plugs:



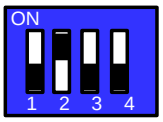
Plugs AS/C-NC-NO : Tamper. Connect C-NC for normally close, connect C-NO for normally open.

Plugs AL/C-NC-NO : Alarm. Connect C-NC for normally close, connect C-NO for normally open.

Plugs + - : Power supply. Connect the battery (3/10V)

Fix the case for wireless transmitter to the wall or to the bracket, connect the wires of the alarm input and of the tamper to the wireless transmitter and make them pass through the appropriate hole. Close the case with the appropriate screws. Remove the IR and microwave sensor block (4 screws) from the detector's case and drill a hole for passing cables. Fix the detector on the case for wireless transmitter. Reassemble the sensor block. Connect the battery connectors. Perform the coverage tests.

Settings



By default the setting DIP are setting as shown.

DIP1 Low battery display (SGN BAT)

ON	If the battery has a voltage lower than 2.7 V, the yellow LED flashes rapidly every 2 s (approx.). During the walk test this signal is interrupted
OFF	No displaing

DIP2 Triple AND (3AND)

ON Detection in triple and is enabled. To generate an alarm, the two pyroelectric devices and the microwave must detect an intrusion at the same time. Recommended in the presence of animals.

OFF Detection in triple and disabled. To generate an alarm it is sufficient that one of the two pyroelectrics and the microwave detect an intrusion at the same time. Use only in stable and animal-free environments.

DIP3 Alarm Led (LD AL STBY)

ON The device displays intrusion on the LEDs even during low consumption operation. Only the central blue LED lights up to signal the intrusion

OFF The device does not display intrusion on the LEDs during low-power operation. No LED lights up.

DIP4 Working Test/coverage (WALK TEST)

OFF→ON An OFF • ON transition on this dip allows you to perform the time and / or coverage test. Once the period of time has elapsed, the device returns to the set-up of consumption even in ON. To reactivate the test, set the dip switch to OFF and, after a few seconds, set it to ON. The entry and exit from the trial period is signaled by the simultaneous flashing of the three LEDs..

Signaling LED

The following table summarizes the meaning of the LEDs during the walk test and the low consumption operation.

LED	Walk test	Low consumption
Red	One of the two pyroelectric detects intrusion	No signaling
Yellow	Flashing during movements, steady on if microwave alarm is reached	Short flash every 2 s (approx.) If active low battery warning (DIP1) and if battery below threshold
Blue	Intrusion alarm on steady	Intrusion alarm if DIP3 activated otherwise no signaling

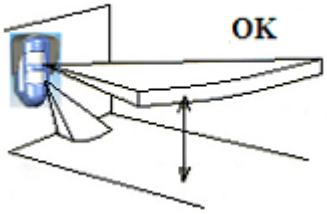
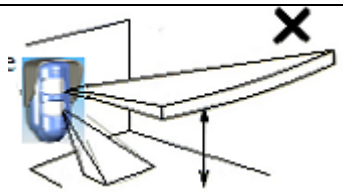
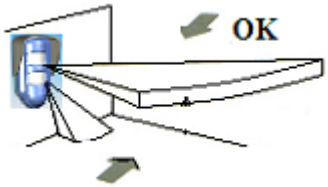
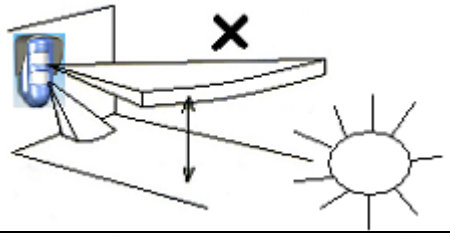
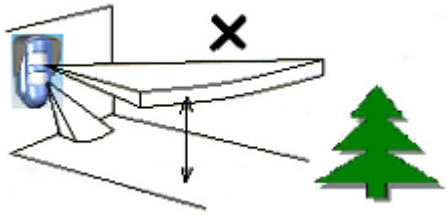
Working test and setting

Portare il Dip 4 da OFF a ON, controllare e regolare l'area di copertura. Muoversi all'interno dell'area da proteggere verificando l'accensione dei LED. Poiché il led rosso è condiviso da entrambi i piroelettrici, si suggerisce, per regolare la portata IR, di regolare al massimo il trimmer della microonda (RANGE MW), disattivare la funzione 3AND (DIP2), azzerare il trimmer del piroelettrico basso (IR-L) e regolare il trimmer del piroelettrico alto (IR-H) osservando il led rosso. Una volta terminato, attivare la funzione 3AND (DIP2) e regolare altezza e trimmer IR-L osservando il led blu di allarme. Infine regolare il trimmer della portata microonda (RANGE MW).

Inhibition time

Between two alarm detections there is an inhibition time of about three minutes in which the sensor does not open the alarm contact. If during this time the sensor detects a further movement, the inhibition time is reset and starts again from zero.

Installation suggest :

Install the detector perpendicular to the ground so that the upper detection area is parallel to the ground	
If the detector is installed at a certain angle (not perpendicular), the reliability of operation can be reduced	
The fixing height must be between 0.8 and 1.4 meters.	
Attraversamento – Fonti luminose – Oggetti mobili	
Install the detector in such a way that the coverage area must be crossed.	
It is recommended to prevent the detector from being hit by direct sunlight or other strong light sources	
Check that there are no moving objects (leaves, branches, etc.) in the protected area.	

N.B. In the presence of hedges or bushes that can generate false alarms, use the supplied beam cover lens, covering the beams of the infrared to avoid it as shown in picture.