

Dual technology curtain detectors for outdoor



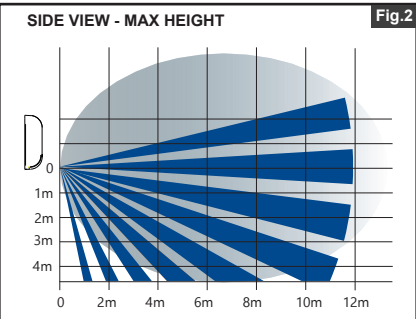
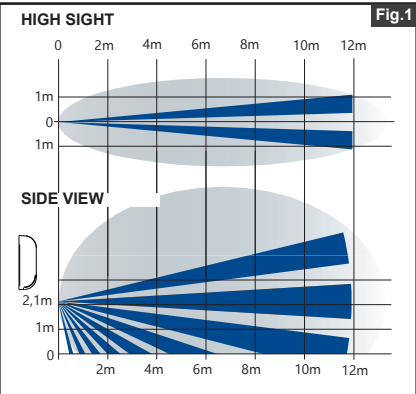
SPECIFICATIONS	FACTORY/FACTORY EVOLUTION
Voltage	12V ~+3V
Current Max (in memory of All.)	32 mA
Current Stand By	20 mA
Microwave	24 Ghz
Alarm Period	3 sec.
Opto Relé	100mA/24V
Tamper	100mA/30V
Wall Tamper	300mA/48V
Operating Temp.	-10°C/+55°C
Ambient umidity	95%
Teoric MTBF	120.000 HOURS
Dimensions	110x44x46 mm
Performance Level	EN50131-2-4 Grade 2,Class IV

MAIN FEATURES/FUNCTIONS

- MICROWAVE ANTIMASKING**
Allows you to report any attempt to MASK the microwave.
- INFRARED ANTIMASKING**
Allows you to report any attempt to MASK the Infrared lens.
- ANTIMASKING BEDBUG (Only Evolution)**
Antimasking with filter for small insects (bedbug).
- CROSSING APPROACHING**
The detector can be set for operation through ("curtain") or approaching ("corridor").
- TEMPERATURE COMPENSATION**
Processing algorithms automatically optimize the detection in function of temperature.
- MEMORIE**
Allows you to view the first alarm occurred with the system disarmed.
- WATERPROOF**
WATERPROOF container thanks to the presence of seals in the closing profiles.
- IP65 GRADE**
Degree of protection of the enclosure.
- EXTRA FILTER (only Evolution)**
Selective infrared band optical filter.
- LED OFF**
Remote deactivates LED.
- PET IMMUNITY**
Pet immunity (with the application dedicated accessory).
- METERS RANGE**
Barrier 12 mt x 200 cm.

PRODUCT DESCRIPTION

VELVET FACTORY and **VELVET FACTORY EVOLUTION** are dual-tech outdoor curtain detectors. Both integrate functions and features such as: detection effectiveness, false alarm reaction with double ANTI-MASKING system, enclosure designed for outdoor, dynamic temperature compensation, installation flexibility.



FIXING THE SENSOR

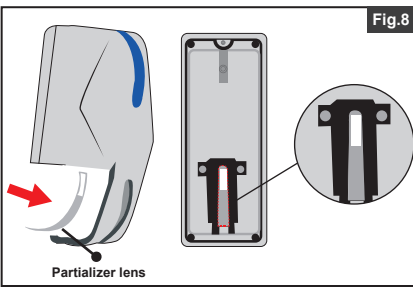
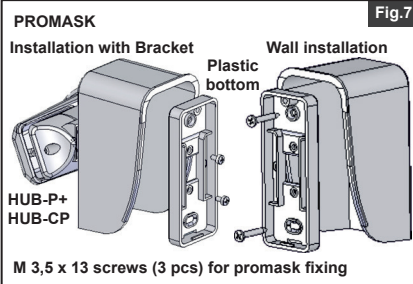
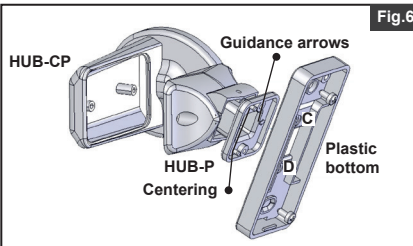
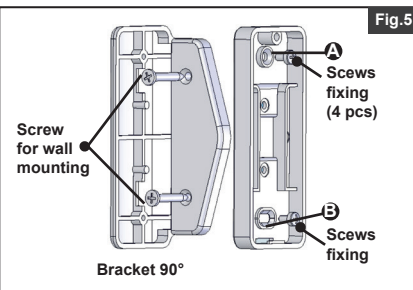
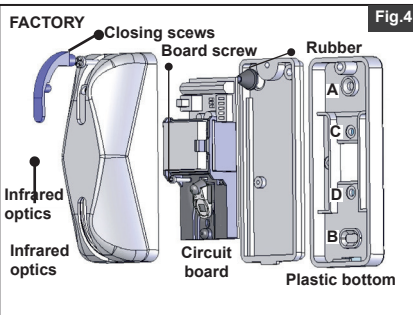
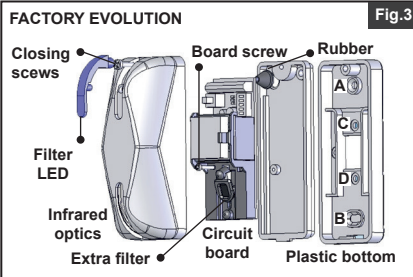
Open the detector by unscrewing the closing screw. Remove all, Intermediate Plastic Bottom and Circuit Board, from the Plastic Bottom (Fig.3-4).

To the wall or with angle bracket 90°

For direct mounting to the wall, fix the Plastic Bottom with the screws through the locations **A** and **B** (Fig.5). For installation with Bracket 90°, attach first the bracket to the wall with the screws and then attach the Plastic Bottom to the bracket through locations **A** and **B** with the Bracket 90° screws (Fig.5). Pass the cable through the Rubber on the Plastic Bottom (Fig.3-4) and replace the all, Intermediate Plastic Bottom and Circuit Board, on the Plastic Bottom. Proceed with the cable connection.

With Swivel Bracket Hub

The Swivel Bracket HUB-P will be applied in a horizontal manner, or directly to the wall with screws and dowels, or on the support HUB-CP through the Angle Bracket screws (Fig.6). The HUB-P allows orientation of + /- 45 ° vertically, and +30° in the opposite direction to that of the "Guidance Arrows", in the horizontal plane. Pass the cable through the Swivel Bracket and the Cable Entry Place the Plastic Bottom on the Swivel Bracket with the Angle Brachet screws through the Location **C** and **D**. Orient the swivel Bracket and tighten the locking screw through the Cable Entry. Pass the cable through the Rubber on the Intermediate Plastic Bottom and replace the all, Intermediate Plastic Bottom and Circuit Board, on the Plastic Bottom (Fig. 3-4). Proceed with the cable connection.



CABLE CONNECTION

Connect the cable to the terminal block according to the diagram (Tab.1).

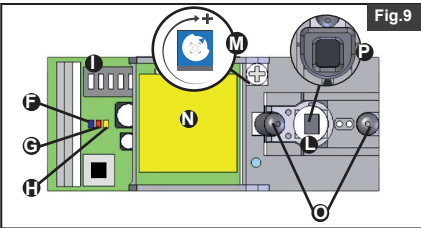
- Adjust the flow rate using the trimmer (see settings/functions chapter Fig.9);
- Carry out the operating settings if necessary (see the settings/functions chapter);
- Attach the faceplate.
- Run the Walk Test verifying the readings through the LEDs;
- Tighten the closing screw (Fig.3-4);
- Apply the Screw Cover Led Filter (Fig.3-4).

This element has the dual function:

- it allows you to leave the LEDs on so that they cannot be seen from a distance by any intruder, allowing you to check the operation of the sensor by the user in the immediate vicinity;
- aesthetically masks the sensor closing screw.

SETTING AND FUNCTIONS

TERMINAL	INPUT: input recognition system Armed/Not Armed	Tab.1
1	Supply input 12V	
2	Tamper Contact normally closed	
3	Alarm Relé normally closed	
4	Antimask Relé normally closed	



- 1 Led MW
- 2 Led Alarm
- 3 Led IR
- 4 Dipswitch
- 5 IR
- 6 Trimmer
- 7 Microwave
- 8 Lens Antimask IR
- 9 Extra Filter (only Evolution version)

Through the positioning of the 5 Dip Switches is possible to adapt the sensor working to the your installing needs.

SETTING FACTORY EVOLUTION

Dip 1 e 4 pos.OFF- ANTIMASK DISABLED

Dip 1 e 4 - GLOBAL ANTIMASK Total Antimask MW/IR



Any element that can mask the MW or the lens of the IR generates an alarm displayed by the three flashing LEDs, and sent to the central through the connection terminal MASK. This signal remains until it is removed the cause that generated it. The enabling of Antimask function will be active only after the closing of the plastic front and will bring the sensor in a condition to MaskAdjust. In this condition, in which the LEDs will flash alternately for about 60 seconds, the sensor will calibrate its antimask levels. Closed the Plastic Front is therefore necessary to remove your hands from the sensor, and do not move and do not put anything in its immediate vicinity. At the end of MaskAdjust the sensor will be ready for operation. You automatically have two levels of sensitivity of the AntiMask selecting the operation Outdoor/Indoor:

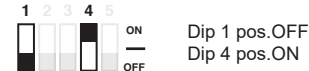
- INDOOR: maximum of sensitivity;
- OUTDOOR: optimized sensitivity on atmospheric disturbances.

Dip 1 e 4 - EXCLUSION of MW's ANTIMASK



You may exclude the Antimask of Microwave in installations that presenting solid bodies in motion in the immediate vicinity of the sensor and which could cause Antimask alarms: Blinds of metal, shutters of metal, etc. The enabling of the function will be active only after the closing of the plastic front and will bring the sensor in a condition to MaskAdjust.

Dip 1 e 4 -ANTIMASK AM BEDBUG



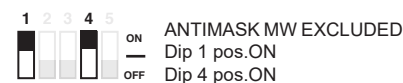
This function is suitable for outdoor installations where it is possible that small insects could perch on the sensitive area of one of the two technologies. The function will be active immediately after switching the dip switch and will bring the sensor in a condition of MaskAdjust. Is therefore necessary to complete the task of closing the front cover within the first 30 " for does not alter the acquisition of levels of antimask.

SETTING FACTORY

Dip 1 - GLOBAL ANTIMASK Total Antimask MW/IR



Dip 4 - EXCLUSION of MW's ANTIMASK



SETTING THE DECTION FACTORY/FACTORY EVOLUTION

Dip 2 - INDOOR/OUTDOOR



You have the ability to select the most suitable algorithm, such as sensitivity and speed, to the type of installation chosen in order to reduce false alarms and to have always the highest detection capability in the installation you have choose.

INDOOR has a capacity of detection and false alarm rejection typical of indoor volumetric sensors.

OUTDOOR the detection capability has been optimized considering the possible disturbances caused by atmospheric disturbances.

NB: The Installer can reverse the use of two settings (OUTDOOR to the Indoor of a building, and INDOOR for outdoor use) if the Installer detects an external site where there is a low possibility of interference, or an internal site where there is high possibility of false alarm.

Dip 3 - ATTRAVERSAMENTO/AVVICINAMENTO

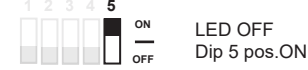


In a Barrier protection is necessary to establish at the time of installation, which will be the transit direction of the intruder in reference of the barrier. The two settings are then optimized to exploit the different characteristics of the two detection sensors (MW and IR) in these two different situations of detection. Considerations about the selectable sensitivities: Using the dip switch No. 2 and No.3 will have 4 different sensitivity of detection that have been optimized for operation in installations for outdoor or indoor, with movements that approaching the sensor, or crossing its detection lobe .

The levels of sensitivity, sorted by sensing speed (from fastest 1 ^ to slowest ^ 4), are listed in the table below:

- 1^ Indoor Crossing
- 2^ Indoor Approach
- 3^ Outdoor Crossing
- 4^ Outdoor Approach

Dip 5 - LED OFF



Through the positioning of the 5 Dip Switches is possible to adapt the sensor working to the your installing needs (Tab.2).

Display	BLUE LED	RED LED	YELLOW LED
	MW	ALARM	IR
ANTIMASK	FLASH	FLASH	FLASH

TRIMMER

Adjusts the range of the sensor (Fig.9-M).

To the adjusting to keep as a reference the range determined by the microwave (MW). The sensor will automatically adjust the operation of the Infrared (IR) to this adjustment.

NB contrary to the microwave, for which it is possible to determine with sufficient precision its limit of detection, for the infrared this condition is not applicable.

This is because the infrared detection is affected by ambient temperature, from clothing of the intruder, the presence/absence of wind, etc.

The trimmer thus automatically adjusts the detection capability of the Infrared as a function of the microwave range selected, without necessarily delimit its field of action as that of the microwave (the Infrared will be automatically configured for the most adverse conditions at that range).

You can so have infrared detections even to greater distance than that defined by the trimmer without compromising the reliability of the sensor.

FUNCTIONS TROUGHT INPUT LINE

These functions are activated/deactivated by the System arming ON/System arming OFF. It is considered:

- 12V on INPUT = System arming OFF
- 0V on INPUT = System arming ON

REMOTE ENABLING LED

REQUEST CONDITION LED OFF

At the System arming OFF, the sensor will arrange for the rehabilitation of the views of detection.

The views will be rehabilitated at the first detection, and will remain active for 30sec.

MEMORIES

At System arming OFF, will displayed the memory of the first alarm occurred, as in (Tab.3).

The memory will be reseted to the next System arming ON.

DELAY of MEMORY for use in TIMED ZONES (for use in timed zones)

Time of Exit: alarms that occur within the first 30sec. from the System arming ON will be erased.

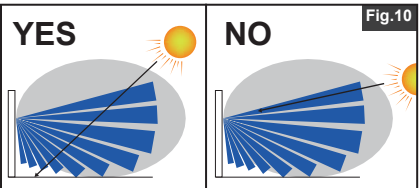
Time of Entry: alarms that occur 30 sec. before the System arming OFF will be erased.

MEMORY DISPLAY	BLUE LED	RED LED	YELLOW LED
PIR+MW	OFF	ON	OFF
ANTIMASK	FLASH	ON	FLASH

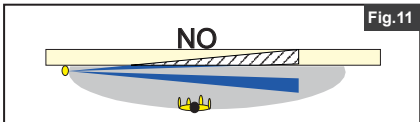
TIPS FOR INSTALLATION

In indoor installations, prefer placement of the sensor toward the inside of the room and away from operating machinery and heat sources. Avoid to direct it toward the windows exposed to the sunny. In outdoor installations, prevent that the sun's rays, especially during the hottest hours of the day, come directly to the infrared sensing element.

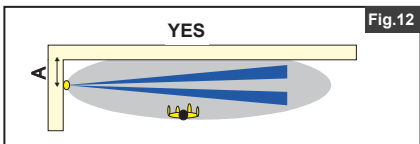
NB: care not to obscure, even partially, the field of vision of the detector (Fig.10).



For protection of walls, avoid that a sensitive area of infrared is in contact with the wall, in order to don't cancel the benefit of the dual-element infrared sensor (Fig.11).

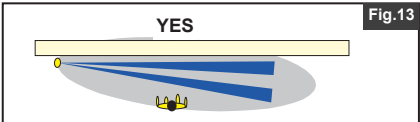


Overcome this by mounting the sensor detached from the wall (Fig.12 - Tab.4).

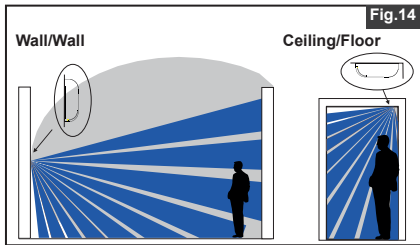


Distance A function of the Range selected	Range	Distance A
	12 mt	120 cm
	8 mt	70 cm
	4 mt	35 cm
	2 mt	18 cm

Or orienting the sensor of a few degrees (<10 °) using the optional accessory Swivel Bracket Hub P + HUB-CP (Fig.13).

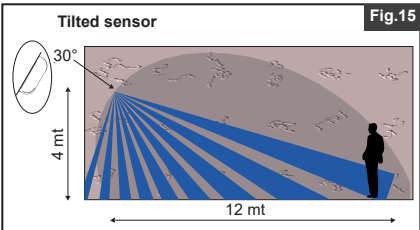


To prefer installations where there is a wall / floor to delimit the field of detection of the sensor. Do not point the sensor in a vacuum space (Fig.14).



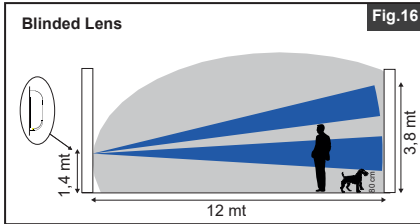
NB The sensor range is set by trimmer according to the mass of a human body. Large animals (horses, cows) or large mass of moving objects (cars) can be detected at greater distances.

Where is not possible an installation Wall/Wall or Ceiling/Floor, to prefer the tilted sensor installation (Fig.15). Exclud from the sensor's detection zone any object in motion or oscillating.



PET IMMUNITY (OPTIONAL)

If there is the possibility of transit of pets in the protected zone, use the optional Blinding's lens by applying it on the lens so as to leave uncovered only the two upper zones. The result is it in the figure below (Fig.16).



Aplication of Blinding's lens

Insert the «Blinding's lens» within the particular «Lens blocker» already mounted in the inner part of the «Front Cover».The «Blinding's lens» will have to be inserted with the «Slot» facing towards the top of the sensor, and stopped behind the Hook that stops the «Lens blocker» (Fig.8).

NB: To have the Pet Immunity effect , the sensor must be installed only on a vertical wall, and a height of 80 cm/140 cm from the ground.

DECLARATION OF CONFORMITY

EEA srl declares that this radio equipment is compatible with the essential requirements of the Directive 2014/53/UE. The declaration of conformity is available on website: www.eea-security.com.



DIRECTIVE 2012/19/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on waste electrical and electronic equipment (WEEE)

The symbol of the crossed-out wheeled bin on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product: your household waste disposal service or the shop where you purchased the product.

The manufacturer reserves the right at any time to add, delete or modify product features or functions in order to achieve technical improvements.