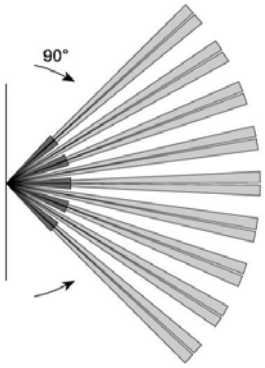
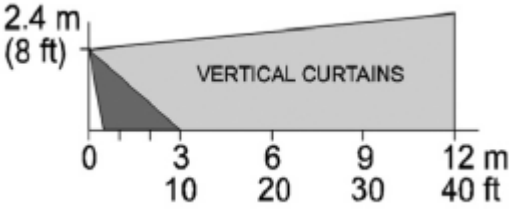
AN-RMP1

Infrared Detector



view from above



seen from the side

Product description

The AN-RMP1 volumetric sensors are used to detect the intrusion of people in an environment open to an alarm contact. They are used in conjunction with a VCR or DVR burglar alarm systems.

Opening the box

The front cover of the sensor must be removed for the installation and configuration. It is necessary to unscrew the retaining screw and uncover the sensor in order to access to the motherboard and start with the configuration. The retaining screw should not be unscrewed completely, just loosen it a few turns. Once you arrived at the sensor board it is possible to remove it from the base by unscrewing the single screw which holds it in its place, to facilitate the connection of the wires in the terminal block.

Mounting and positioning

The sensor is fixed to the wall. The installation height should be around 2.2 / 2.4 meters. To obtain maximum performance, it is necessary to avoid installing the sensor near to the following sources of interference: reflective surfaces, direct air flows, vents, fans, windows, vapor, infrared light sources and objects causing temperature changes such as heaters, refrigerators or ovens. The base of the sensor is equipped with some knockouts zones to allow the passage of cables inside.

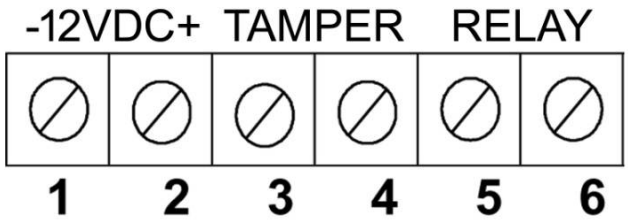
operation

The AN-RMP1 sensor bases its operation on a dual element PIR (passive infrared) that detects the temperature present in an environment by means of a radial pattern of infrared rays. The temperature change between adjacent rays, generated by an intrusion, causes the opening of the alarm contact for 2 seconds.

coverage

The sensor covers the area in front of him according to the following diagram.

Connections and wiring



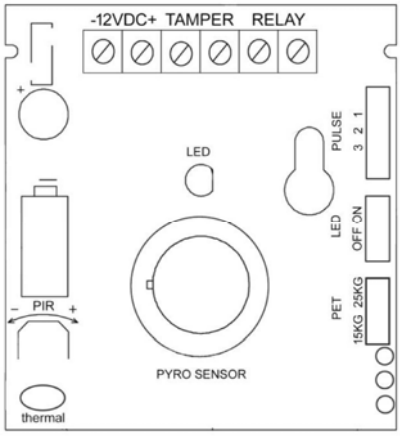
On the sensor board to which a terminal block is installed to connect the power supply, eventually the anti tamper (TAMPER) and the alarm line. 12VDC - Connect the 12VDC power supply (+ and -) coming from a burglar alarm control panel or from a feeder.

TAMPER - NC contact that opens in case of sensor tampering. To be connected to the tamper line of the control panel.

RELAY - Contact NV which opens for about two seconds on alarm. Connect to a central area of the burglar alarm or the entrance of a DVR or other device.

Settings

The sensor is equipped with different adjustments placed on the board



Main technical features

Technology	PIR Passive Infrared
range Open	Not usable outside
range Indoors	12 m.
Response Time	Adjustable 35/700 ms
alarm output	Relay NC 30V 100 mA
tamper Output	Relay NC 30V 1A
Supply	9V-14V DC
Absorption	Max. 30 mA / 12VDC alarm
alarm Duration	2 sec.
Temperature	- 10 ° C + 50 ° C
Degree of protection	IP40

Impulse (PULSE)

The sensor can react to the first pulse or after 2 or 3 pulses for greater immunity against false alarms. Possible causes of false alarm for an infrared sensor are objects that can cause sudden changes of temperature, such as radiators or air convectors.

1 pulse - very stable environment, pet immunity unused

Pulse 2 - Normal environment, to use if pet immunity adjusted to 15 Kg

3 pulses - unstable environment with possible causes of false alarms. Set if pet immunity adjusted to 25 Kg.

Immunity pets (PET)

The sensor can be excluded from detection small pets. E 'can set the size of the animal with the bridge PET (15 or 25 Kg.)

LED on / off (LED)

The sensor is equipped with a red alarm LED that can be used to verify the detection area. After installation, if you want, you can exclude the operation of the LED with the LED jumper.

Flow rate (PIR)

With the PIR potentiometer it is possible to reduce the detection area of the sensor by turning the potentiometer PIR tab

Walk test

Once the sensor installed to try detecting walking in the protected area. Each alarm is signaled by the red LED for 3 seconds. Between each detection must spend at least a period of five seconds.