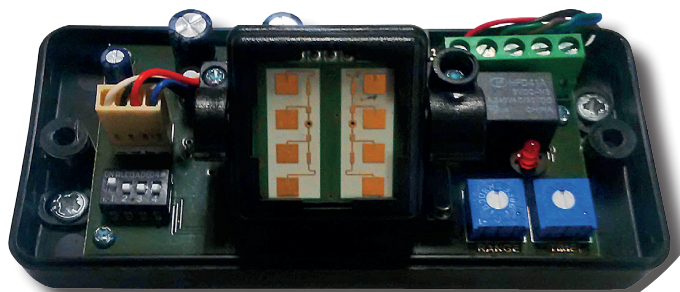


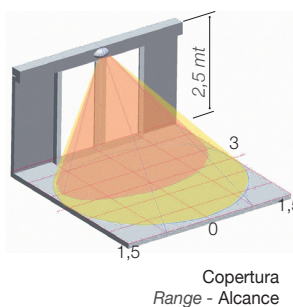
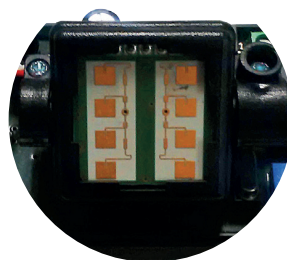
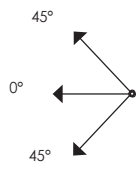
APRO MINI

APRO MINI
 mono/bidirezionale banda K
 one-way/Two-way K band
 mono/bi-direccional banda K



Rivelatore a microonde per comando porte automatiche
Microwave detectors for automatic door command
Detector a microondas para el control de puertas automáticas

| | APRO MINI | Orientabile - Adjustable - Ajustable |
|---|--|--------------------------------------|
| Tensione di alimentazione Current load Tensión de alimentación | 12 - 24 V _{AC} 12 - 30 V _{DC} | |
| Assorbimento Absorption Consumo | 40 mA max | |
| Frequenza operativa Operative frequency Frecuencia de trabajo | 24,000 - 24,250 GHz | |
| Potenza in uscita Output power Potencia de salida | ≤ 20 dBm | |
| Portata Relay command duration Alcance | 1 - 5 m regolabile/adjustable/ajustable | |
| Durata comando relè Output power Duración de comando relé | 0,5 - 6 s regolabile/adjustable/ajustable | |
| Grado di protezione Protection degree Grado de protección | IP 54 | |
| Altezza di installazione Installation height Altura de instalación | 2,5 m max | |
| Velocità rilevabile Detectable speed Velocidad detectable | 0,1 m/s min | |
| Contatto relè Relay contact Contacto de relé | 1 A - 24 V _{AC-DC} | |
| Orientabilità verticale Vertical orientation Ajuste vertical | 0 - 45° | |
| Temperatura di funzionamento Operating temperatures Temperatura de funcionamiento | - 20 °C / + 50 °C | |
| Garanzia Warranty Garantía | 24 mesi/months/meses | |
| Dimensioni / Peso Dimensions / Weight Dimensiones / Peso | 116 x 50 x 40 mm / 100 g | |



Il rivelatore a microonde APRO MINI è un dispositivo per il comando di porte automatiche con frequenza operativa in banda K . Esso interviene in presenza di movimenti di persone o automezzi all'interno di un'area controllata. APRO MINI è sviluppato in tecnologia planare e può essere configurato in modalità monodirezionale (può rivelare indipendentemente i due versi di direzione avanti o indietro) o bidirezionale (rivela entrambi i versi di direzione). Un microprocessore elabora i segnali ricevuti, generati per effetto Doppler, e invia all'uscita un consenso al comando.

The APRO MINI microwave detector is a device for controlling automatic doors. It works in the K band. It detects the motion of people and vehicles in the monitored area. APRO MINI implements planar technology. It may be configured in one-way mode (for independent detection either backwards or forwards) or two-way mode (for detection in both directions). A microprocessor processes the received Doppler signals and outputs a control enabling signal.

CONTACT HOLD TIME ADJUSTMENT

Adjust trimmer TIME on the electronic board (Fig.1-F) to set the required hold time in a range from 0,5 to 6 seconds

The **APRO MINI** microwave detector is a device for controlling automatic doors. It works in the **K band**. It detects the motion of people and vehicles in the monitored area.

APRO MINI implements planar technology. It may be configured in **one-way mode** (for independent detection either backwards or forwards) or **two-way mode** (for detection in both directions). A microprocessor processes the received Doppler signals and outputs a control enabling signal.

**TECHNICAL SPECIFICATIONS**

| | |
|---------------------------|--|
| Power voltage (SELV type) | 12 – 24 V _{AC} /12 - 30 V _{DC} |
| Power current | max. 40 mA |
| Operative frequency | 24,000 - 24,250 GHz |
| Output power (EIRP) | ≤20 dBm |
| Range | 1-5 m adjustable |
| Relay control time | 0,5 - 6 s adjustable |
| Degree of protection | IP 54 |
| Installation height | max. 2,5 m |
| Detectable speed | 0.1 m/s minimum |
| Relay contact | 1A - 24 V _{AC/DC} |
| Vertical directionality | 0-45° |
| Operating temperature | - 20 °C to + 50 °C |
| Dimensions/Weight | 116x50x40 mm / 200 g |
| Warranty | 24 months |

NOTE: A SELV power source must be used (certified power supply unit or safety transformer) in compliance with CEN 41003:1993 standard.

We hereby declare that APRO MINI complies with the essential requirements of Directive 99/05/EC (R&TTE) harmonised radio standard pursuant to Art. 3.2 of Italian Law No. 269 dated 9.5.2001: EN300440-2 V 1.1.2

FUNCTION SETTING

The **APRO MINI** detector can be configured in **one-way** mode (only one direction) or **two-way** mode (both directions). Use the dip-switch on the electronic board (Fig. 1-A) to set the required function choosing it from the functions listed in the following table.

| DSW1 | DSW2 | DSW3 | SENSITIVITY | CONDITION |
|-----------|------------|------------|-------------|--|
| OFF | - | ON | High | Both directions are detected |
| OFF | - | OFF | Low | Both directions are detected |
| ON | OFF | ON | High | Movement towards sensor is detected |
| ON | OFF | OFF | Low | Movement towards sensor is detected (default) |
| ON | ON | ON | High | Movement away from sensor is detected |
| ON | ON | OFF | Low | Movement away from sensor is detected |

Tab.1

Dip 4 not used

FASTENING AND ORIENTATION

The **APRO MINI** detector must be installed in central position of the door on structures free from vibrations at a maximum height of 2,5 metres, on wall or ceiling. Remove the lid, insert the wire in the seat and fix the apparatus using the holes shown (Fig.1-B). Turn the detecting module (Fig.1-C) towards the area to be monitored.

For correct operation, do not install **APRO MINI**:

- facing moving parts of the door
- facing fluorescent lamps (a minimum distance of 2 metres)
- facing zones in which streams of water may be present when it rains.

These conditions could cause undesired opening.

ELECTRIC CONNECTIONS

Connect the terminal board as described in Fig. 2 and power the detector up. The LED present on the electronic board (Fig. 1-D) will signal that a movement has been detected for as long as the relay is energised.

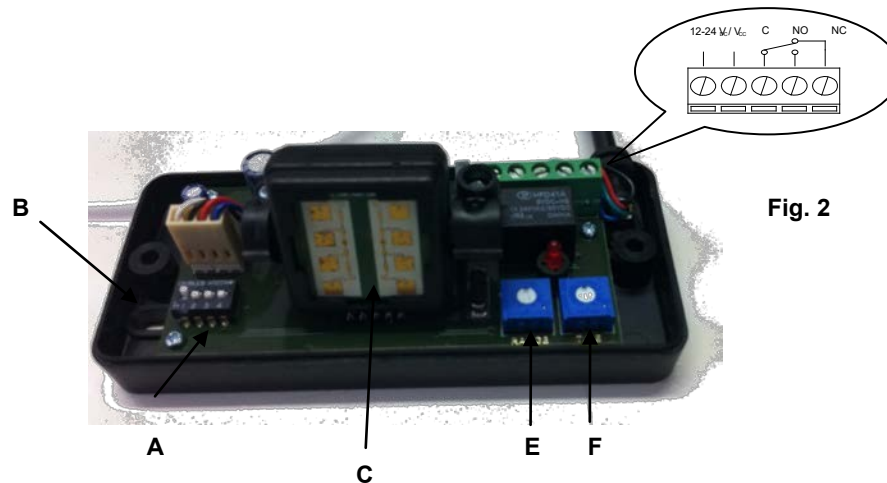


Fig.1

RANGE ADJUSTMENT

Separate areas can be obtained by directing and inclining the antenna part and appropriately setting dip switch 3 (to selecting high or low sensitivity) (Fig.3). Trimmer RANGE on the electronic board (Fig.1-E) is used to optimise adjustments and make the detector sensitive to the concerned area only.

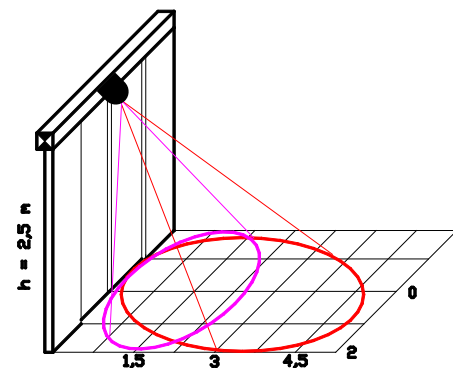


Fig.3

