General description

The APRO SRK microwave detector (short range sensor) is designed for opening automatic fast doors and sliding doors. It is the ideal solution for high pedestrian traffic areas because APRO SRK reduces the risk of unnecessary opening caused by detection of crosswise movements.
Excellent for use in environments in which the maximum degree of hygiene is needed (food-processing factories, hospital etc.) in which touch operation of a door opening command is not allowed.
APRO SRK detects movements within a controlled area. It implements band K planar technology.

APRO SRK

Power voltage **(SELV type)**	2-24 Vac/12-30 Vdc
Power current	40 mA max.
Working frequency	24 GHz
Output power (EIRP)	≤ 20 dBm
Range	0.3-1.2 m adjustable
Relay control time	0.5 - 5 s adjustable
Degree of protection	IP 55
Installation height	120 cm max.
Detectable speed	0.1 m/s min.
Relay contact	1A-24 Vac/dc
Horizontal directionality	+/- 45 °
Working temperature range	-20°C to +50°C
Dimensions/weight	57x37x100 mm/70 g
Warranty	24 months

NOTE: A SELV power source must be used (certified power supply unit or safety transformer) in compliance with CEI EN 62949:2017-12.standard. We hereby declare that the product named RADAR SRK complies with the essential requirements of Directive 2014/53/UE (RED) harmonised radio standard pursuant to Art. 3.2 of Italian Law No. 128 dated 22.6.2016: EN300440-2 V 2.2.1. The complete declaration of conformity is available on the website.

CE UK CA

Installing the detector

The APRO SRK detector must be installed by the side of the door on structures without vibrations and at a maximum height of 120 cm from the ground.

The APRO SRK detector must be installed in a sealed plastic box in damp environments or areas which are washed down using jets of water. Replace the cover of the device with the one of the box in which it is installed in this case.

Remove the cover by levering in the lower middle part of the sensor. Remove the cover by releasing it from the base. Insert the wire into one of the specific seats and fix the base using the indicated holes (Fig.1-A).

Connect the terminal board as described in Fig. 2 and power the detector up. The LED present on the electric board (Fig. 1-C) will signal that a movement has been detected for as long as the relay is energised. Turn the detecting module (Fig.1-B) towards the area to be monitored by turning the notch system.

For correct operation, do not install APRO SRK:

- 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.

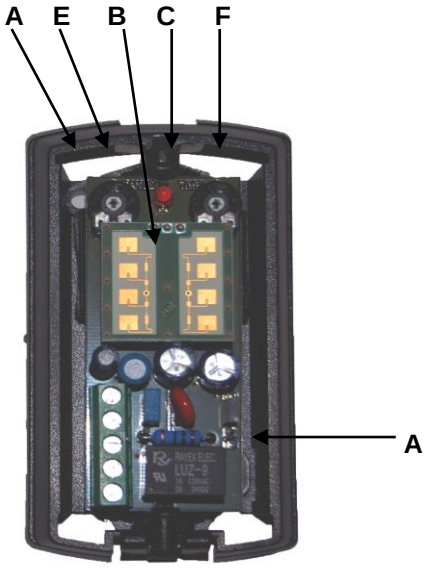


Fig.1

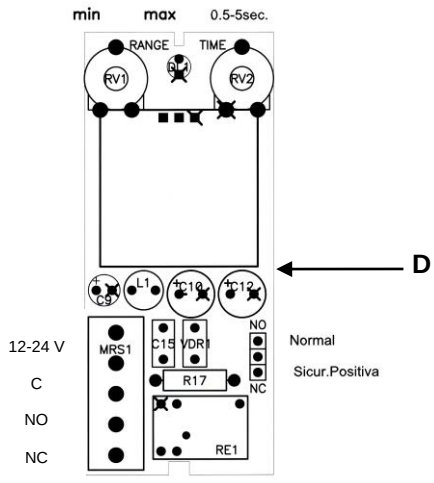


Fig. 2

Relay contact setting

The terminal board has a relay with switch contact, as shown in Fig. 2.
Set P1 (Fig. 2-D) to obtain the combinations described in table 1.

These conditions apply when the device is powered.

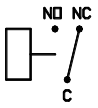
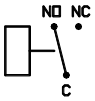
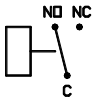
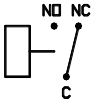
P1(NO) (default) (Normal operation)				
P1(NC) (Positive safety)				

Table 1

Range adjustment

Trimmer TR1 on the electronic board (Fig.1-E) is used to optimise adjustments and make the detector sensitive to the concerned area only.

Contact hold time setting

Adjust trimmer TR2 on the electronic board (Fig.1-F) to set the required hold time in a range from 0.5 to 5 seconds.