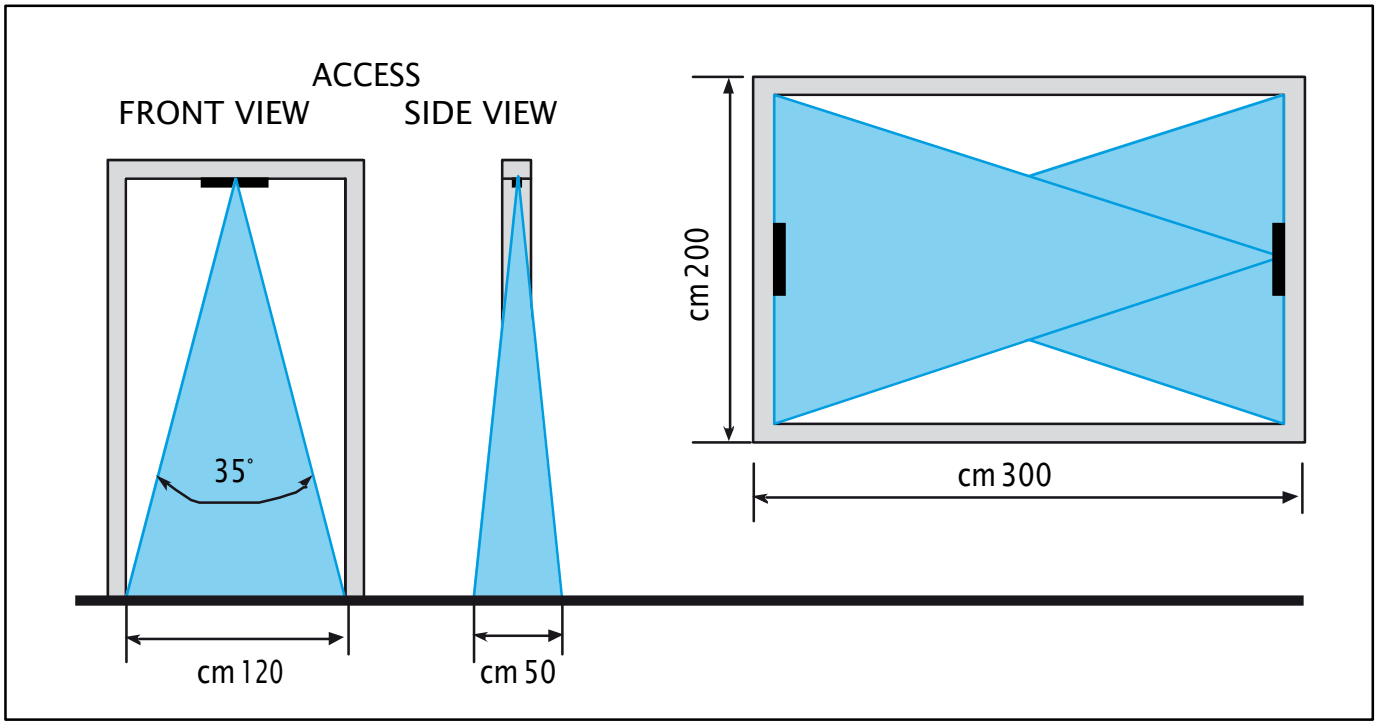
Sensor SOP2IR-DT

Outdoor dual technology digital detector



The dual IR perimeter detector allows monitoring access points using two different detection methods. Two IR sensors allow monitoring free entry points like windows or balcony doors. The unit's linear lenses create a curtain detection area. Operation in AND with a 24 Ghz microwave ensure high immunity to false alarms.
A reed magnetic contact inside the device allows monitoring the opening of doors, windows and access points in general.
The device is provided with active infrared anti-masking function (which can be inhibited).





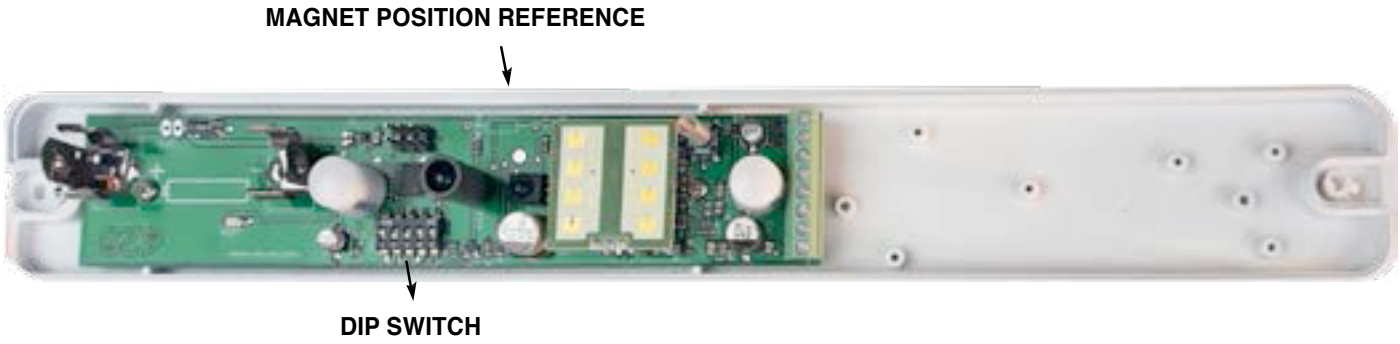
Installation instructions

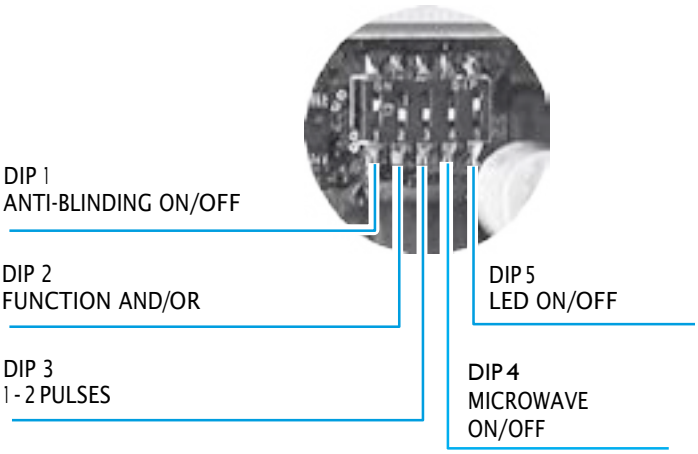
For a correct installation, the sensor must be mounted externally, between the casing and its blind, at the centre of the upper jamb of the door or window to be protected.
The detector ensures curtain protection through two passive infrared sensors.
One mark on the base shows the side where the additional Reed contact has been placed and where to install its magnet; for example: if it is necessary to protect the blind opening.

Installation tips

- Do not fix the detector in places exposed to weather (wind, rain, snow, etc). Avoid direct sunlight.
- Prevent reflective objects (glasses, polished metals, puddles, etc.) from affecting the detector, causing false alarms.
- Do not install near air conditioners and heat pumps.

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DIP SWITCH		
SWITCH	POSITION	FUNCTION
1	ON OFF	Anti-masking enabled Anti-masking disabled
2	ON OFF	IR sensors operation in OR IR sensors operation in AND
3	ON OFF	2 pulse count OFF 1 pulse count
4	ON OFF	Enabled microwave Disabled microwave
5	ON OFF	IR signalling LED enabled IR signalling LED disabled

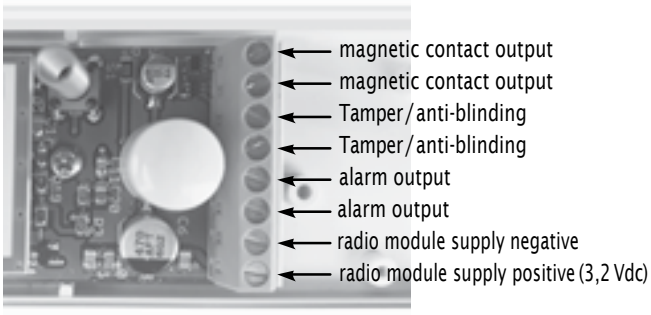
Warning: after completing the inspection and calibration operations, disable LED IR signalling (DIP switch) in order not to reduce the battery duration.

Set dips when the device is off.

The anti-masking function detects obstacles in fixed position at less than 30 centimetres from the IR sensors. Within 5 seconds from detection, a tampering alarm is sent (tamper output).
The IR sensors can operate in OR or AND mode.
In OR mode, the alarm is triggered even if only one sensor detects motion. Sensitivity is then higher.
In AND mode, both sensors must detect motion to trigger the alarm.
In both cases, the pyroelectric sensors work in AND with the microwave.
Therefore, immunity to false alarms is increased.
The pulse count adjusts sensitivity, e.g. the speed of sending the alarm. In normal cases, it is advisable to position dip n°3 on 1 pulse (OFF).

Installation instructions

Power supply	1 lithium battery 3,6 Vdc
Absorption	30 uA at rest
Absorption	20 mA in alarm
Pulse count	1 o 2 pulses in 2,5 seconds
Mic frequency	24.000-24.250 Ghz
Output relay contact	NA max. 50 mA 6 Vdc
Lens type	Fresnel
Anti-opening tamper	Internal contact
Operating temperature	From -20°C. to +50°C.
Temperature compensation	Automatic
Environmental humidity	85% Max.
Protection class	IP54
Dimensions WxHxD	295 x 37 x 32 mm



SOPRAS

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