Curtain DT movement sensor

4272

Description

External double-technology movement detection sensor (PIR+MW), with blanket coverage.
It is recommended for the protection of doors, windows and display cases or more in general in any open-air installation, where the coverage of well-defined areas is needed. It can in fact create a blanket coverage with angle of 7.5 ° and with an adjustable output up to 12 metres.
The 4272 sensor has an accelerator station for tear-off resistance and a microswitch against the opening of the front and infrared LED for antimasking analysis.

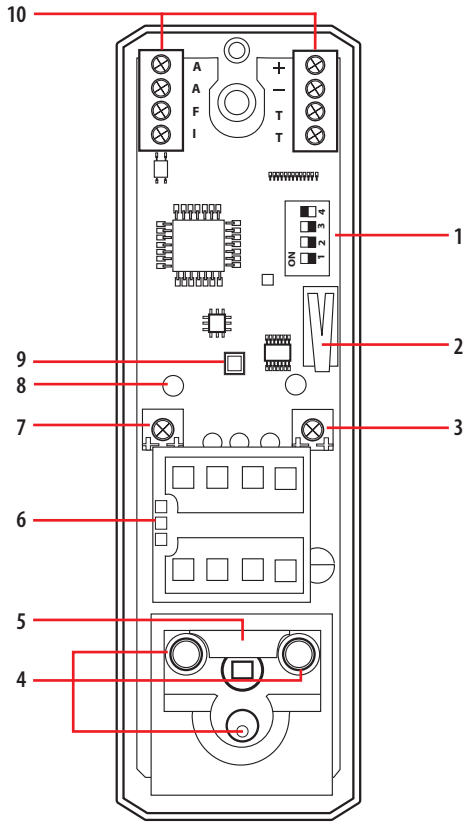
Technical data

IR sensor	two sensitive areas (double components)
Supply voltage	9.6 –14.5 Vdc
Absorption	30 mA max
Alarm relay	solid state, 60 V, 50 mA insulation 1500 Vrms
Tamper switch	form A (NC) 50 mA at 30 Vdc
Microwave operating frequency	24,125 GHz; range 12 m
Operating temperature	(- 20) – (+ 55) °C
IP index	54

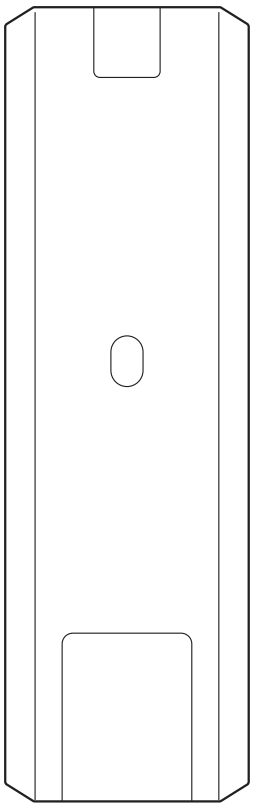
Dimensional data

Size	130 x 40 x 40mm (H x L x D)
- with wall bracket	130 x 40 x 45mm (H x L x D)
- with angular bracket	130 x 45 x 45mm (H x L x D)

Front view without cover



Front view



Legend

1. Dip switch
2. Front micro-switch
3. IR adjustment trimmer
   Turn to the right to increase the sensitivity.
   Turn to the left to decrease the sensitivity.
4. Infrared LED for antimasking analysis
5. Infrared sensor
6. Microwave sensor
7. Microwave adjustment trimmer.
   Turn to the right to increase the sensitivity
   Turn to the left to decrease the sensitivity
8. Logical card fixing hole
9. RGB notification LED with 5 colours

GREEN steady ON	IR detection without alarm
BLUE steady ON	MV detection without alarm
BLU flashing	Masking detection
RED steady ON	Alarm detection (IR & MW)
WHITE flashing	Heating / calibration phase

10. Connection clamps

Notes
- The heating phase lasts for a maximum of 60 seconds when a Dip-switch is changed or switching ON.
- Even if the system status (LED) is disabled with DIP 1 or input "I", when there is masking the LED will flash blue.

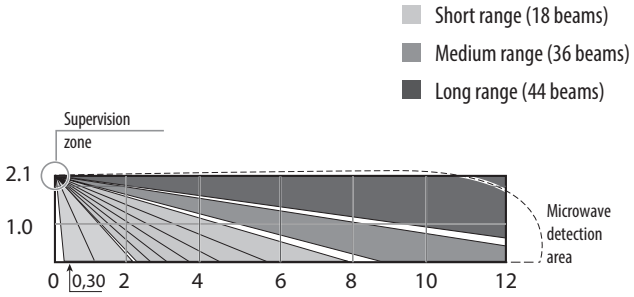
Dip switch	
1	RGB LED enabling
2	enabling front antimasking analysis
3	tear-resistance management enabling
4	enabling end-of-line resistances for triple parallel balancing (3 x 10KΩ)

Connection clamps	
+/–	power supply
A / A	alarm (nc); solid state relay
T / T	tampering alarm (nc); solid state relay
F	fault clamp (nc); open collector to the clamp (-)
I	input for remote system status inhibition

Technical specifications

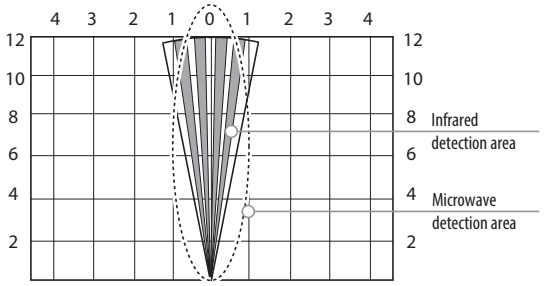
Coverage graphs detected with sensor mounted vertically

Covering diagram side view in metres



Detection distance: from 0.30m to 12m
Installation height: 2.10m on the wall
Vertical covering: IR 90°, MW 80°

Covering diagram upper view in metres



Zone of detection: single blanket (7.5° angle)
blanket width: at 2m – 25 cm; at 10m – 130 cm
Horizontal covering: IR 7,5° , MW 32°

Wiring

Sensor wiring diagram to the central unit or expansion module and dip-switch setting for triple balance (3 x 10 KΩ).