PASSIVE INFRARED TELESCOPES

Brief descriptions and data sheets

APPLICATIONS

- Long - range passive motion detectors, for use in alarm systems inside buildings and outdoors
- Optimized for use in combination with video cameras and video sensors

FEATURES

- ***Large vertical detection area of 45°***; 100% coverage of the detection area due to the use of an internal system of mirrors.
- Detects even extremely slow movement (0.2 m/s) at right angles to the detection axis..
- Unobtrusive because of very small dimensions

Passive IR detection is based on the recording of changes in the continuously measured background temperature.

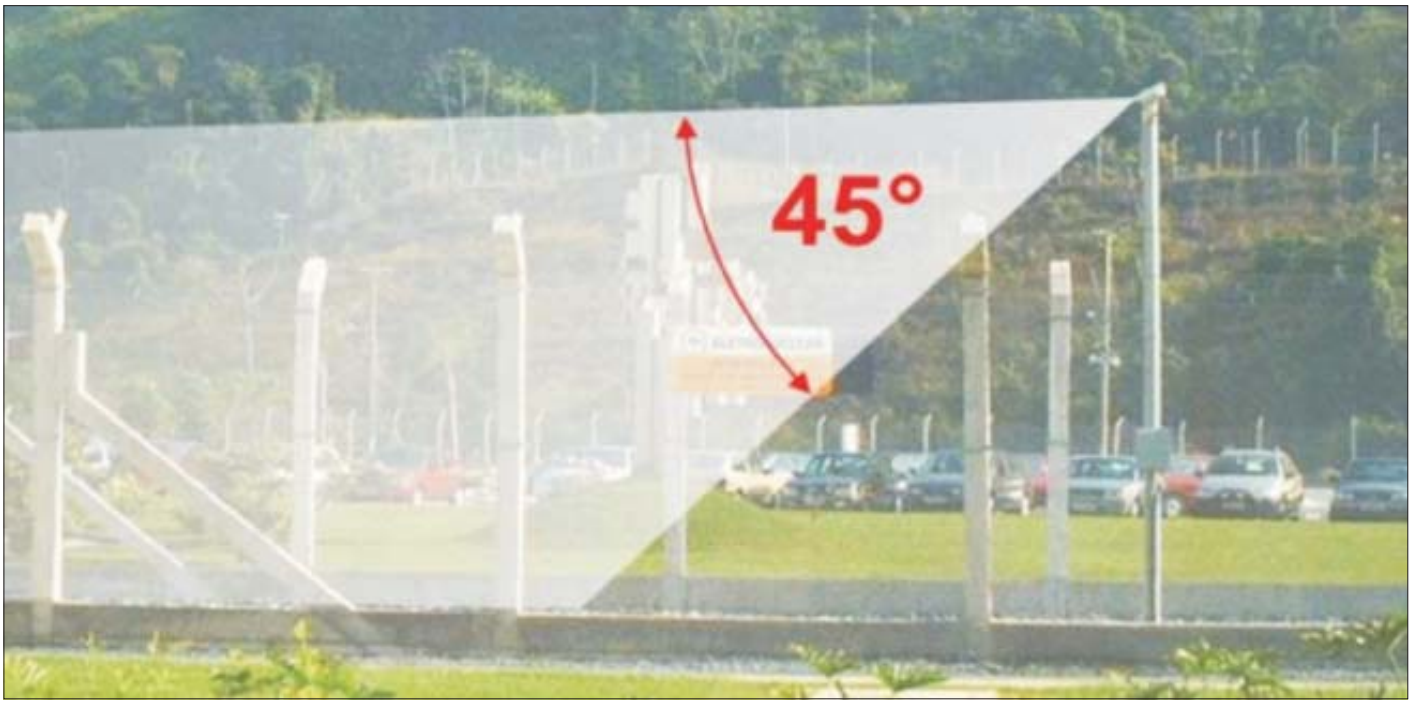
The high-quality precision optical system with an integrated system of mirrors picks up the thermal radiation and focuses it on a dual pyro-electrical sensor.

Temperature changes caused by objects moving across the detection axis or towards the detector are evaluated and used for triggering an alarm.

The evaluation electronics provide a high degree of safety against false alarms due to changing weather conditions, such as sudden temperature changes, the onset of precipitation or gusts of wind.

The telescopes are designed for indoor or outdoor use.

Passive Infrared Telescope SPI 102



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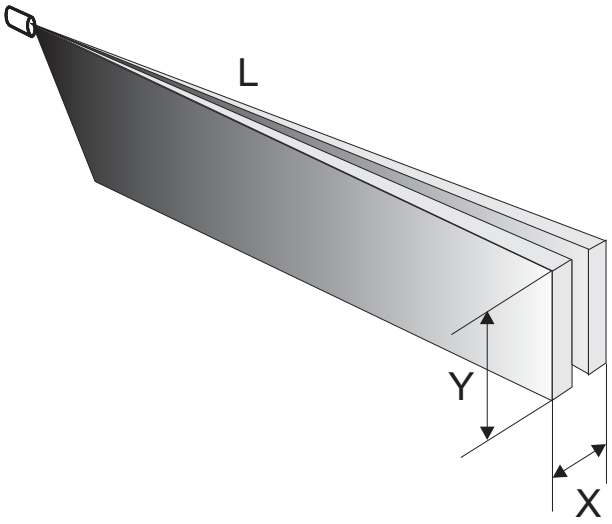
SPI 102

Detection area (Persons)

L (m)	X (m)	Y (m)
25	0,9	4,0
50	1,8	4,0
80	2,9	4,0

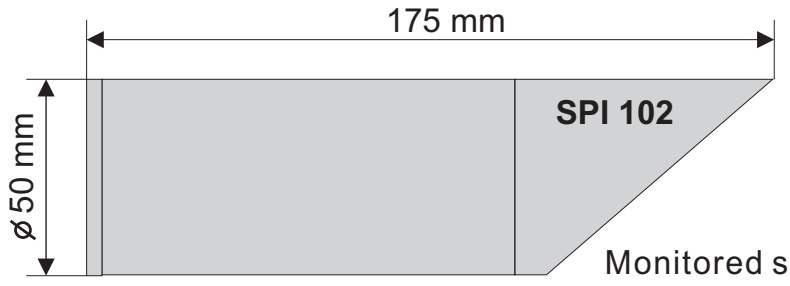


TECHNICAL DATA SPI 105

Nominal range	80 m
Monitored spatial angle	
- vertical:	45°
- horizontal:	2°
Spectral sensitivity:	8 - 14 µm
Supply voltage:	12 V DC +/- 25 %
Power consumption:	0,25 W
- with heater:	1,25 W
Alarm output:	potential-free relay contact (normally open/normally closed) serial resistor 10 Ohm
Delay between power-on and ready for operation:	approx. 50 s
Connection:	permanently mounted cable, length 6 m (7 x 0.34 mm²)
Ambient temperature:	- 25 up to + 65°C
Case:	degree of protection IP 66, anodised aluminium
Dimensions - Length:	175 mm
- Diameter:	50 mm

ORDERING INFORMATION

SPI 102	Passive-IR-Telescope; vertical aperture 45°
SPI V - 102	Aiming device with switching magnet
SPI W	Wall mounting



Monitored spatial angle - vertical 45°

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