



Perimeter Detection Systems

PIRAMID XL2

Dual Technology Sensors



Unique Technology

- **Dual technology sensor** combining **Stereo Doppler Microwave Technology** with a **dual element Passive Infrared sensor**
- **Proprietary integrated circuit design** that provides **enhanced digital signal processing** for **both technologies**

PIRAMID XL2

PIRAMID XL2 sensors are Dual Technology Intrusion Sensors.

Dual Technology Performance

- Combination of **PROTECH's** unique proprietary Stereo Doppler Microwave Technology and **Passive Infrared**
- **"And Gated"** Configuration: both sensor technologies must be activated simultaneously to create an overall sensor alarm
- Ability to ignore randomly moving objects
- Temperature Compensation automatically adjusts detection parameters to eliminate loss of range at elevated temperatures



Detection Reliability

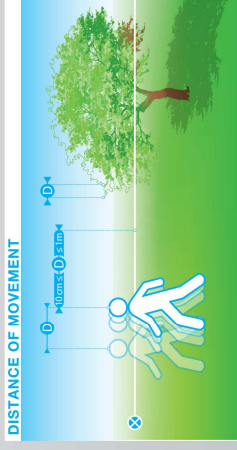
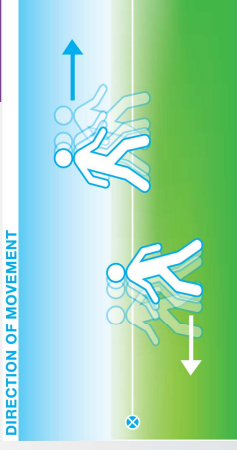
- Stereo Doppler Supervision: any component or power failure will cause the sensor to lock in alarm
- Maximum protection against RFI and EMI interference due to rugged, weather-proof metal housing
- Weather Shroud that provides **Maximum Protection** from ice, snow, wind and sun and channels rain away from sensor's face

Optimum Security

- 3 parameters of detection:

- **Direction of Movement:** sensor can differentiate between approaching and receding motion
- **Speed of Movement:** "Immunity Switch" enables immunity to birds and small animals
- **Distance of Movement:** "Sensitivity Control Switch" adjusts distance of movement required for an alarm

- **Digital Range Control:** adjustment of overall size of the sensor's detection area (Ten-position digital switch)


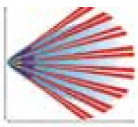
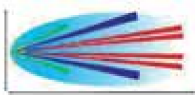


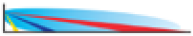










Various Applications

- Protects **specific assets** and **strategic areas:** electrical and water utilities, chemical storage, oil and gas plants, correctional facilities, auto dealerships...
- Protection index: **IP65**
- Hazardous areas - **ATEX explosion-proof model** available



Protection Coverage Diagrams - Microwave and Passive Infrared Coverage

Model	SDI-76XL2	SDI-77XL2	SDI-77XL2-B	SDI-77XL2-C	SDI-77XL2-D
Lens angle	Wide Angle	Wide Angle	Medium Angle	Curtain	Vertical Barrier
Type of Lens	Lens A	Lens A	Lens B	Lens C	Lens D
	15 m x 15 m	27 m x 15 m	30 m x 10,5 m	38 m x 6 m	30 m x 3 m
Lens angle - Top View					
Side View					
"Pet" Lens: optional lens	Lens A-Pet	Lens A-Pet	Lens B-Pet	Lens C-Pet	
Side View with "Pet" Lens					

Option
  IR Pattern
 Microwave Coverage

PIRAMID XL2 Sensor

Input Voltage	8.5 to 20 Vdc
Current Consumption	150 mA at 12 Vdc (LED's off)
RF Power Density	120 uW/cm ² max. at the face of the unit
Operating Temperature	-35°C to +70°C
Relative Humidity	0 to 100%
Relay Contact Rating	0.1 A / 50 V
Housing Dimensions (mm)	158,75 (L) x 133,35 (l) x 88,90 (H)
Shroud Dimensions (mm)	234,95 (L) x 152,40 (l) x 107,95 (H)
Microwave Frequency	10,587 GHz / 9,90 GHz / 9,47 GHz

Seal of the retailer



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In order to continuously ensure the high standard of quality and performance of our products, we reserve the right to modify the present technical data without notification.

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