



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-loading** and channels rain away from sensor's face



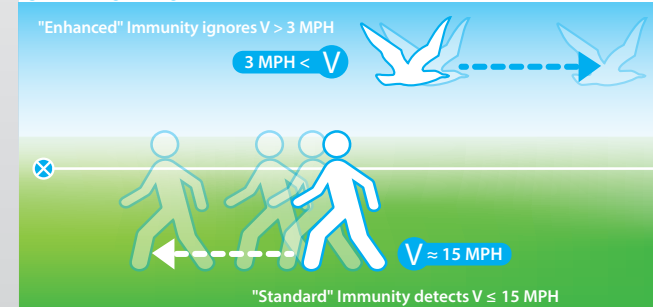
## Optimum Security

- 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)

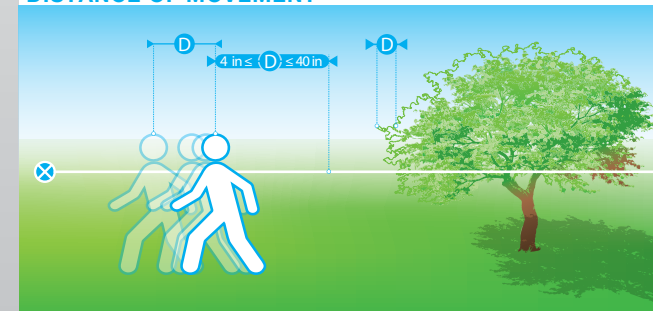
DIRECTION OF MOVEMENT



SPEED OF MOVEMENT



DISTANCE OF MOVEMENT



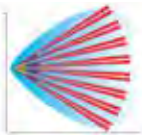
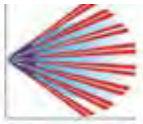

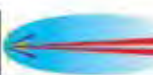










## Various Applications

- 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** - **Explosion-proof model** available



Explosion-proof model

## 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	Long Narrow	Vertical Barrier
Type of Lens	Lens A	Lens A	Lens B	Lens C	Lens D
	50' L x 50' W 15 m x 15 m	90' L x 50' W 27 m x 15 m	100' L x 35' W 30 m x 10.5 m	125' L x 20' W 38 m x 6 m	100' L x 10' W 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 <sup>2</sup> max. at the face of the unit
Operating Temperature	-40°F to 159°F / -40°C to 70°C
Relative Humidity	0 to 100%
Relay Contact Rating	0.1 A / 50 V
Housing Dimensions	6.25" (L) x 5.25" (W) x 3.5" (H)
Shroud Dimensions	9.25" (L) x 6" (W) x 4.25" (H)
Microwave Frequency	10.525 MHz / 10.587 MHz / 9.90 MHz / 9.47 MHz

#### Seal of the retailer

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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