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Outdoor Intrusion Detection Systems

PIRAMID XL-MIL & XL-HS

Dual Technology Sensor for High Security Applications



Overview

The high security version of the **PIRAMID (MIL Sensor)** offers enhanced detection capability for slow moving, fast moving and crawling intruders.

The **PIRAMID XL-MIL** combines PROTECH's proprietary "Stereo Doppler" microwave technology with a dual element passive infrared sensor. The independent sensor modules are "And Gated" and must activate simultaneously to create an overall sensor alarm.

Applications

PIRAMID XL-MIL detectors can be used in various high security applications such as military bases, correctional facilities and nuclear power plants where the highest level of security is required. The PIRAMID XL-MIL offers a very high PD (probability of detection) of greater than 0.95 yet, provides a very low NAR/FAR (Nuisance Alarm Rate/False Alarm Rate).

dual technology

sensors

FEATURES

- periodically moving objects as sources of false alarms.
- infrared changes created by an intruder.
- processing for both microwave and passive infrared technologies.

- **Master LED** Displayed on the face of the unit indicating the alarm relay status.

- of protection patterns for optimum flexibility.
- False Alarm Rate I/unit/year based on signal to noise ratio.
- **Probability of Detection Greater than 0.95**

Input Voltage Current Consumpt **RF Power Density Operating Tempera Operating Humidity Relay Contact Ratin** Housing Dimension Shroud Dimension Frequency Bands

ORDERING INFORMATION

- SDI-76XL-MIL SDI-77XL-MIL-D SDI-76XL-HS* SDI-77XL-HS*
- **HS Versions***



Protection Technologies, Inc. 529 Vista Boulevard, A-3 • Sparks, Nevada 89434 Telephone: (775) 856-7333 • Fax (775) 856-7658 800-428-9662 • info@protechusa.com

Stereo Doppler Microwave Sensor - Two receiving channels with the ability to eliminate vibration and

Dual Element Infrared Sensor - Ignores normal temperature variations yet very responsive to rapid

Microprocessor Controlled - Proprietary integrated circuit design provides enhanced digital signal

 Balanced Temperature Compensations - Stereo Doppler Microwave and Passive Infrared automatically adjust detection parameters to compensate for losses in range that occur at elevated temperatures. Stereo Doppler Supervision - Self-checking circuitry ensure proper performance is maintained.

Analytic LEDs - Alarm and environmental caution LEDs for Stereo Doppler Microwave and Passive Infrared portions are displayed on the face of the sensor. An internal switch can disable analytic LEDs. Metal Housing - Rugged and durable; offers maximum protection against RFI and EMI interference. Weather Shroud - Metal hood provides maximum protection from rain, snow, wind, and sun loading.

Assorted Protection Patterns - Interchangeable Fresnel Lens Modules offer tremendous assortment

HS Auxiliary PC Board - Optional factory installed PCB providing anti-masking and self-test features.

TECHNICAL SPECIFICATIONS

	10 VDC to 28 VDC	
on	150 mA at 12 VDC (LED's off)	
	120 uW/cm² max. at the face of the unit	
ture	-40°F to 150°F / -40°C to 65°C	
/	0 to 100% relative humidity	
ng	0.I A / 50 V	
าร	6.5" (L) x 5.25" (W) x 3.5" (H) (16.5cm x 13.3cm x 8.5cm)	
S	9.25" (L) × 6" (W) × 4.25" (H) (23.5cm L × 15.25cm W × 11cm H)	
	10.525 GHz USA	
	International Frequencies: 10.587 GHz/9.90 GHz/ 9.47 GHzv	

50 ft. x 50 ft. (15m x 15m) - Lens H - Dual Technology Sensor
100 ft. x 10 ft. (30m x 3m) Lens D - Dual Technology Sensor
50 ft. x 50 ft. (15m x 15m) - Lens H - Dual w/Anti-Masking*
100 ft. x 100 ft. (30m x 30m) Lens D - Dual w/Anti-Masking*
HS Auxiliary PCB Factory installed providing Anti-Masking Feature

For the purpose of continuously improving th quality and performance of its products. Pro tech reserves the right to change the abov specifications without notice

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