

Hirsch Pyramid XL-MW

Microwave Sensor for High-Security Applications



Outdoor Intrusion Detection Systems

The PIRAMID XL-MW outdoor models are single technology microwave intrusion sensors designed for applications where the very highest level of security is required or where single technology intrusion sensors are a requirement. As in all Hirsch intrusion sensors, PIRAMID XL-MW sensors utilized proprietary "Stereo Doppler" Microwave Technology.

Stereo Doppler Technology

Hirsch's unique microwave technology can determine the precise distance in inches (centimeters) that a target must move to create a valid alarm signal. With the advanced "Stereo Doppler" signal processing Hirsch sensors can discriminate against vibration and randomly moving targets as potential sources of nuisance alarms.

Applications

The PIRAMID XL-MW offers enhanced detection capability for slow moving, fast moving, and crawling intruders. The PIRAMID XL-MW outdoor sensors 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-MW 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).

Features

- **Stereo Doppler Microwave Sensor** - Two receiving channels with the ability to eliminate vibration and periodically moving objects as sources of false alarms.
- **FPGA Controlled** - Proprietary architecture enables hardware level security and true parallel signal processing, delivering faster, more resilient analysis of microwave and passive infrared data than conventional micro-controller based designs.
- **Stereo Doppler Supervision** - Self-checking circuitry ensure proper performance is maintained.
- **Master LED** - Displayed on the face of the unit indicating the alarm relay status.
- **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 that routes rain away from sensor's face and provides maximum protection from ice, snow, wind, and sun loading

TECHNICAL SPECIFICATIONS

Input Voltage	10.5 VDC to 28 VDC
Current Consumption	100 mA at 12 VDC (LEDs off)
RF Power Density	120 uW/cm ² max. at the face of the unit
Operating Temperature	-40°F to 158°F / -40°C to 70°C
Operating Humidity	0 to 100% relative humidity
Relay Contact Rating	100 mA / 50 V
Frequency Bands	10.525 GHz USA; International 10.587 GHz /9.90 GHz /9.47 GHz

ORDERING INFORMATION

SDI-76XL-MW	50 ft. x 50 ft. (15m x 15m)
SDI-77XL-MW	100 ft. x 60 ft. (30m x 18m)

MOUNTING OPTIONS

Sensor comes with PH-6L Bracket	
PH-4	1.5" to 4.5" Diameter Pole mount for PIRAMID
PH-4A	4.5" to 8.5" Diameter Pole mount for PIRAMID