

PIRAMID Prolech



# DUAL TECHNOLOGY MOTION SENSORS



## **OPERATING PRINCIPLE**

**PIRAMID** intrusion sensors combine PROTECH'S proprietary "Stereo Doppler" Microwave sensor with a dual-element Passive Infrared sensor. Both sensor technologies are configured where they must activate simultaneously to create an overall sensor alarm. The Stereo Doppler Microwave portion activates upon the movement of the intruder and the Passive Infrared portion activates on the *change in infrared radiation* caused by the intruder.

### **FALSE-ALARM-FREE PERFORMANCE PIRAMID SENSORS IGNORE:**

- Vibration
- Randomly moving objects
- Inclement weather
- Moving vegetation
- Blowing debris
- Birds and small animals















## **PIRAMID XL2**

**OUTDOOR** 

#### **PROTECTS COMMERCIAL SITES** AND CRITICAL INFRASTRUCTURE

- Unique False-Alarm-Free Performance
- Interchangeable Lens Modules
- Enhanced Bird and Animal Immunity
- Rugged Metal Housing/Weather Shroud

## **PIRAMID MIL**

**OUTDOOR HIGH SECURITY** 

#### **PROTECTS HIGH SECURITY SITES**

- High Density Lens Module
- Detects a Crawling Intruder
- USAF Approved PL-I Sites
- HS Version Offers Anti-masking
- Probability of Detection Greater
- than 0.95
- Low Nuisance Alarm Rate/ False Alarm Rate

## **PIRAMID**

**INDOOR** 

#### **PROTECTS MEDIUM TO HIGH SECURITY SITES**

- Ignores Vibration and Random **Moving Objects**
- Interchangeable Lens Modules
- Optional FF-3 Flourescent Filter Module
- High Desnity Lens Modules Available
- USAF Approved with Lens D, G, H

## **PIRAMID M-HS**

**INDOOR ULTRA HIGH SECURITY** 

#### **PROTECTS ULTRA HIGH SECURITY SITES**

- High Density Lens Modules
- Detects Crawling Intruders
- Optional FF-3 Flourescent Filter Module
- And Gate/Or Gate Switchable
- Anti-Masking
- Tamper-Proof Mounting

## **PIRAMID LT**

**DIRECTION CONTROL** 

#### **PROTECTS AGAINST CLIMBING INTRUDERS**

- Protects Ladders and Towers
- 3-Position Direction Control Switch
- Approach Mode Detects Approach
- Recede Mode Detects Recede
- Both Mode Detects Approach/Recede



## **PIRAMID EX**

**EXPLOSION-PROOF** 

#### **PROTECTS HAZARDOUS LOCATIONS**

- Single Technology -Microwave Only
- Housing complies with NEC/CEC location standards
  - Class I, Division I & 2, Groups B, C, D
- Class II, Division I & 2, Groups E, F, G
- Class III, NEMA 4, 78CD, 9EFG













## **Optimum** Performance



- 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)

STEREO DOPPLER MICROWAVE & PASSIVE **INFRARED TECHNOLOGY** 

#### **TECHNOLOGY BENEFITS**



HIGHLY RELIABLE



ALL WEATHER PERFORMANCE



MAXIMUM PROTECTION Reliable and effective





















