ProTech
by **H** HIRSCH

Perimeter Detection Systems

PIRAMID EX

Stereo Doppler Microwave Detection in an Explosion-Proof Housing

EXPLOSION PROOF Certified

- **Housing complies with NEC/CEC location standards:**
  Class I, Division 1 and 2, Groups B, C, D
  Class II, Division 1 and 2, Groups E, F, G
  Class III
  NEMA 4, 7BCD, 9EFG

- **PIRAMID EX protects hazardous locations, in the presence of flammable gases or vapors, combustible dusts, easily ignitable fibers or particulates.**

Technology Features

- **Stereo Doppler Microwave Detector:** Two receiving channels reduce unwanted alarms from vibrating and intermittently moving objects

- **Enhanced Bird/Animal Immunity Control:** Two-position switch adjusts the sensor's immunity to birds and small animals

- **Sensitivity Control:** Ten-position switch adjusts the amount of movement required to trigger an alarm

- **Range Control:** Ten-position switch adjusts the overall size of the sensor's detection area

microwave
technology

Ultra-Sensitive Applications

Piramid EX is suitable for sensitive sites with flammable gas and/or combustible dust such as:
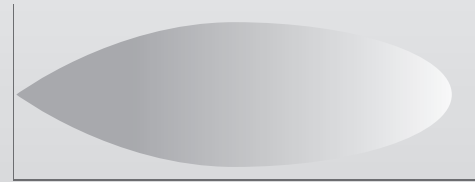
- **Oil Rigs**
- **Petrochemical Sites**
- **Storage zones for dangerous materials**

Protection Pattern

Side-view   100 ft

Top view   100 ft x 40 ft

PIRAMID EX Technical Specifications

Input Voltage	10.5 to 28 Vdc (Also available in 24 VAC)
Consumption	100 mA @ 12 Vdc (LEDs off)
RF Power Density	120 μW/cm^2 maximum in front of the device
Frequency Bands	10.525 GHz USA; International 10.587 GHz/9.90 GHz/9.47 GHz
Operating Temperature	-40ºF to +158ºF (-40ºC to 70ºC)
Relative Humidity	0 to 100%
Relay Contact Rating	100 mA, 50 V
IP Rating	IP66 compliant EN/IED60529 Impact resistance IK10 EN/IE 62262
Housing Dimensions	13" (L) x 12.5" (W) x 9.4" (H) 330.2mm x 317.5mm x 238.8 mm
Weight	42 lbs. (Shipping Weight)

Ordering Information

SDI-77XL2-EXIND	Indoor - 100ft. x 40ft. , 2 " Movement Sensitivity
SDI-77XL2-EXOUT	Outdoor - 100ft. x 40ft. Complete Conformal Coating, 4" Movement Sensitivity
FF-3	Optional Fluorescent Filter Module, add FF-3 to end of the sensor part number

Mounting Options

PH-4EXWLMT	Wall Mount for EX Sensor
PH-4EXWLMT-C	Wall Mount for EX Sensor - Specially Painted for Corrosive Environment
PH-4-EX	1 1/2" to 4 1/2" Diameter Pole Mount for EX Sensor
PH-4A-EX	4 1/2" to 8 1/2" Diameter Pole Mount for EX Sensor
PH-4-EX-SS	1 1/2" to 4 1/2" Diameter Stainless Steel Pole Mount for EX Sensor
PH-4A-EX-SS	4 1/2" to 8 1/2" Diameter Stainless Steel Pole Mount for EX Sensor

For the purpose of continuously improving the quality and performance of its products, Protech reserves the right to change the above specifications without notice.

NC229-US_EN V1.2 09.25