



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:

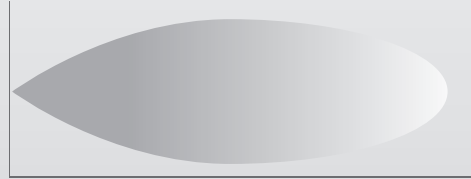
- Oil Rigs
- Petrochemical Sites
- Storage zones for dangerous materials

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 $\mu\text{W}/\text{cm}^2$ maximum in front of the device	
Frequency Bands	10.525 GHz USA; International 10.587 GHz/9.90 GHz/9.47 GHz	
Operating Temperature	-40°F to +158°F (-40°C to 70°C)	
Relative Humidity	0 to 100%	
Relay Contact Rating	100 mA, 50V	
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

Distributor

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.

NC29-US_EN V1.06.24



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