

STEREO DOPPLER EXPLOSION-PROOF MICROWAVE INTRUDER DETECTOR

PIRAMID SDI-77XL2-EX

GENERAL

The SDI-77XL2-EX Model of Stereo Doppler was developed to protect Hazardous Locations due to the presence of flammable gasses or vapors, combustible dusts or easily ignitable fibers or flyings. The SDI-77XL2-EX electronic assembly is configured to be easily inserted into special explosion-proof enclosure. The unit is suitable for applications in Hazardous Locations under the following classifications.

Class I, Div. 1 & 2, Groups C, D • Class II, Div. 1 & 2, Groups E, F, G • Class III • NEMA 7CD, 9EFG
The unit is suitable for installations at petroleum refineries, chemical and petrochemical plants, storage areas and other processing facilities where hazardous substances are handled or stored.

FEATURES

Stereo Doppler Microwave Detector - Two receiving channels with the ability to eliminate vibration and periodically moving objects as sources of false alarms.

Microprocessor Controlled - Proprietary integrated circuit design that provides enhanced digital signal processing for microwave sensor.

Stereo Doppler Supervision - A component or power failure will cause the sensor to lock-in alarm.

Digital Range Control - Ten-position digital switch adjusts the overall size of the sensor's detection area (to its maximum range).

Digital Sensitivity Control - Ten-position digital switch adjusts the amount of movement required to initiate an alarm condition.

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

Analytic LED'S - Red Alarm LED, Green ECI (Environmental Caution Indicator) LED with internal disable switch.

Tamper Proof - Housing tamper with terminal connection.

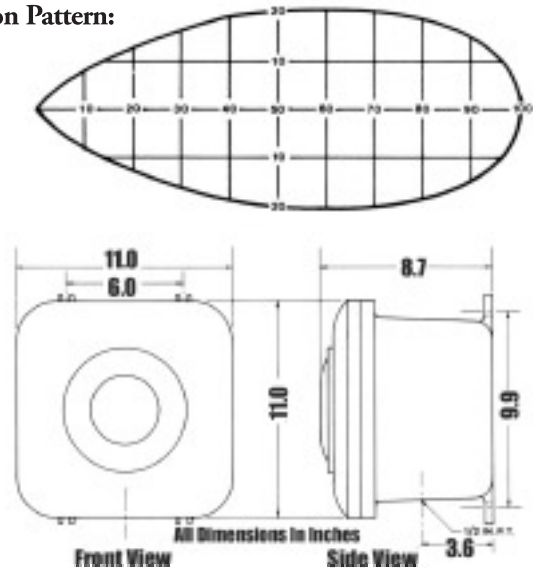
All Solid State Relay - User selectable form C relay output. A Solid State relay is flexible, silent and more reliable than an electromechanical relay.

Walk-Test Sounder - Optional audible tester to assist in the walk-test and initial sensor set-up. The **XL-Sounder** greatly simplifies the installation as it enables walk-testing and adjustment by a single installer.

SPECIFICATIONS

Input Voltage:	8.5 to 20 VDC
Current Consumption:	150 mA @12 VDC (LED's off)
RF Power Density:	120 uW/cm ² max. at the face of the unit
Weight:	40 lbs.
Operating Temperature:	-30° F to 130° F (-34° C to 54° C)
Operating Humidity:	0 to 100% Relative Humidity
Relay Contact Rating:	0.1A, 50V
Microwave Frequency:	Factory adjusted to one of the following frequencies: 10,525 MHz USA 10,587 MHz International 9,900 MHz International 9,470 MHz International
Electrical Access:	Housing provided with 1/2" pipe thread. Special hole size, location and thread available upon request.

Detection Pattern:



ORDER INFORMATION

SDI-77XL2-EX 100 ft. x 40 ft. (30m x 13m)

Protech

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