



# PIRAMID XL Indoor Motion Sensor High Security Versions

Models SDI-76M-HS and SDI-76M-HS1

## GENERAL

The indoor "HS" (High Security) Models of the PIRAMID were developed to satisfy those applications where Ultra High Security is required. Several "special" high security features are incorporated into the standard PIRAMID sensors to satisfy virtually all high-security requirements specified by U.S. government and military agencies. The "M" version sensors of the HS Series are "And Gate/Or Gate" switchable and offer unequaled performance and flexibility.

## FEATURES

- Stereo Doppler Microwave Sensor** - Two receiving channels with the ability to eliminate vibration and periodically moving objects as sources of false alarms.
- Dual Element Infrared Sensor** - Ignores normal temperature variations yet is very responsive to rapid infrared changes created by an intruder.
- Microprocessor Controlled** - Proprietary integrated circuit design provides enhanced digital signal processing for both microwave and passive infrared technologies.
- Digital Range Control** - Ten-position digital switch adjusts how far the sensor detects (to its maximum range).
- Digital Sensitivity Control** - Ten-position digital switch adjusts the amount of movement required to initiate an alarm condition.
- Balanced Temperature Compensation** - Stereo Doppler Microwave and Passive Infrared automatically adjust detection parameters to compensate for losses in range that occur at elevated temperatures.
- Assorted Protection Patterns** - Interchangeable Fresnel Lens Modules offer a tremendous assortment of protection patterns for optimum flexibility.
- Stereo Doppler Supervision** - A component failure will cause the sensor to lock-in alarm.
- Master LED** - Displayed on the face of the unit indicating the alarm relay status.
- Analytic LED's** - Alarm and environmental caution LED's for both Stereo Doppler Microwave and Passive Infrared portions are displayed on the face of the sensor. An internal switch can disable both Master and Analytic LED's.
- All Solid State Relay** - User selectable form C relay output.
- Metal Housing** - Rugged and durable and offers maximum protection against RFI and EMI interference.
- Swivel Mounting** - Multi-directional

## HS (HIGH SECURITY) FEATURES

- And Gate/Or Gate Switchable** - Two position switch enables the installer to field adjust whether both technologies must activate simultaneously to initiate a sensor alarm ("And Gate") or whether either technology activating will initiate a sensor alarm ("Or Gate").
- Anti-Masking** - Special circuitry that detects an obstruction of the sensor's faceplate and causes the alarm relay to change state.
- Remote Self-Test** - Enables the sensor to be tested from a remote location in the same manner as if physically walk-tested.
- Remote RF Power Shut-Off** - Enables the microwave radiation to be shut-off from a remote location.
- Tamper-Proof Mounting** - The heavy-duty swivel-mounting bracket is locked in position from inside a tampered mounting base.
- Conduit Equipped Wiring Entry** - A universal conduit wiring entry fitting provides tamper-proof and environmental protection for the wiring.

## SPECIFICATIONS

- Input Voltage:** 8.5 to 20 VDC
- Current Consumption:** 150 mA@12 VDC (LED's off)
- RF Power Density:** 120 uW/cm<sup>2</sup> max. at the face of the unit
- Operating Environment:**
  - Temperature** -30F to 130F (-34C to 54C)
  - Humidity** 0 to 100% Relative Humidity
- Relay Contact Rating:** 0.1A, 50V
- Housing Dimensions:** 6 1/2" L x 5 1/4" W x 3 3/8" H  
16.5cm L x 13.3cm W x 8.5cm H
- 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

## ORDER INFORMATION

- SDI-76M-HS 75 ft. x 75 ft. (22m x 22m)
  - SDI-76M-HS1 75 ft. x 75 ft. (22m x 22m)
- (Note: The HS1 version includes FF-3 Fluorescent Filter Module)

**Protech**  
Protection Technologies Incorporated  
(800) 428-9662

529 Vista Blvd. • Sparks, Nevada 89434  
(775) 856-7333 • Fax (775) 856-7658 • www.protechusa.com



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