



SENSORS & SWITCHES



Product Name

SafePath™ D38

featuring Human Presence Radar™ (HPR™)

Manufacturer

MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (800) 842-2545
www.mssedco.com

Product Description

BASIC USE

The SafePath™ D38 with patented Human Presence Radar™ (HPR™) is the latest advancement in microwave motion detection for automatic doors. It is the only microwave detector that provides protection for a person who enters the door activation zone and then slows to an extremely slow pace or stops. The D38 can provide this extra level of protection because HPR allows it to actually detect two separate rates of motion simultaneously.

Human Presence Radar™ (HPR™) detectors provide more safety than any other standalone microwave motion detector.

Like other conventional microwave detectors, for the D38 to activate an automatic door it utilizes Doppler shift radar to detect movements of at least 2" per second. However, once

the door has been activated the D38's second level of detection — Human Presence Radar™ — is enabled. Now motion down to 1/4" per second can be detected. This means with HPR™ enabled, persons virtually standing still will continue to be detected anywhere in the detection zone.

Since conventional Doppler shift radar must initially activate the door before enabling Human Presence Radar™ there is no additional chance for false activation of the door because HPR™ alone cannot activate the door.

Human Presence Radar™ gives slow moving, elderly or disabled persons the confidence that once they have been initially detected, they can safely approach an automatic door at any speed without the door closing prematurely.

Technical Data

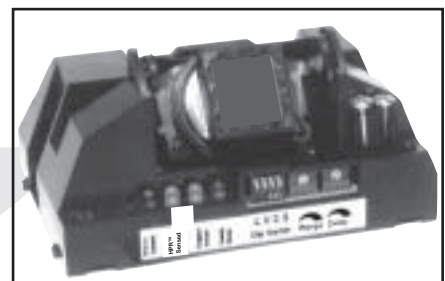
- Human Presence Radar™ (HPR™) Provides Additional Level Of Motion Detection After Initial Door Activation
• Unidirectional & Bidirectional, Narrow & Wide Patterns, and Variable Elevation, In One Unit
• Two Planar Antennas Included
• Can Be Mounted Up To 15 Feet Above Floor
• Easy To Install and Set-Up Without Proprietary External Devices
• Easy Sensitivity and Time Delay Adjustments
• UV Stabilized ABS Plastic Enclosure With Easy Access To Connectors and LEDs
• Safety Beams or Safety Sensors May Be Required. Consult ANSI/BHMA A156.10

SPECIFICATIONS

Model

SafePath D38

Table with specifications: Frequency (24.125 GHz ± 50 MHz), Detection Method (Initial: Doppler Shift Radar, Additional: HPR), Detection Pattern (Selectable), Detection Angle (Adjustable, 21° to 45°), Directionality (Switch selectable), Range (Adjustable), Max. Mounting Height (15'), Power (12V to 24V), Power Consumption (3.5W), Output Contact (Form C), Output Power (5mW typical), Relay Contact Ratings (0.5A:50V AC), Hold Time (Adjustable, 1.5 to 5 seconds), Mounting (Flush Mounted), Temperature (-22°F to 158°F), Color (Flat Black), Weight (<1 lb.), Size (5 1/4"W x 4"H x 2 7/8"D).





**SafePath™ D38**  
Microwave Motion Detector with HPR™



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**APPLICABLE STANDARDS**

American National Standards Institute (ANSI) - Building Hardware Manufacturer's Association (BHMA) - ANSI/BHMA A156.10.

**APPROVALS**

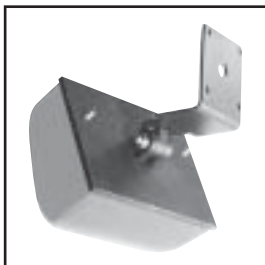
FCC, CE, DOC  
US Patent No. 5,903,217

**Installation**

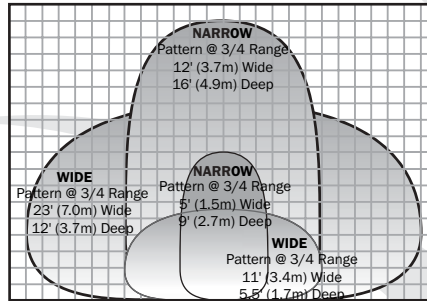
**SETUP AND ADJUSTMENT**

The D38 installs easily. The terminal block is directly accessible from the front. The LEDs are clearly visible. The planar antennae are interchangeable for wide and narrow patterns, and may be tilted to adjust elevation. A range potentiometer further adjusts the pattern, and a second potentiometer adjusts the time delay from 1.5 to 5.0 seconds. A four position dip switch allows the installer to select unidirectional or bidirectional operation, failsafe mode and to adjust standard motion and Human Presence Radar™ (HPR™) sensitivity.

The BDB Bracket is an optional backplate and bracket which allows the installer to elevate and swivel the D38 for more universal configurations.



**COVERAGE PATTERN**



**STANDARD MOUNT**

Mounted 7'6" from finished floor with an elevation angle of 27°:

- Wide Pattern @ 3/4 Range  
11' (3.4m) Wide  
5.5' (1.7m) Deep
- Narrow Pattern @ 3/4 Range  
5' (1.5m) Wide  
9' (2.7m) Deep

**HIGH-MOUNT**

Mounted 15' from finished floor with an elevation angle of 27°:

- Wide Pattern @ 3/4 Range  
23' (7.0m) Wide  
12' (3.7m) Deep
- Narrow Pattern @ 3/4 Range  
12' (3.7m) Wide  
16' (4.9m) Deep

(These detection patterns are approximate and will vary slightly. Walk-test the unit to assure the pattern desired.)

**Availability & Cost**

**AVAILABILITY**

Available internationally from manufacturer's authorized distributors; contact MS SEDCO for the location of nearest distributor.

**COST**

Cost information on MS SEDCO products is available from the manufacturer's authorized distributors.

**Warranty**

A three year warranty is available from the manufacturer covering defects in materials and workmanship. Contact MS SEDCO for details.

**Maintenance**

MS SEDCO recommends that all maintenance and adjustments be performed by an AAADM Certified Technician.

**Technical Services**

MS SEDCO's staff of factory trained sales and service personnel offer design assistance and technical support. Local distributors are also available to assist in selecting appropriate devices for specific uses and to provide onsite installation.

**Filing Systems**

- Sweet's
- Additional product information is available from the manufacturer upon request.

**DIMENSIONS**

