



# SafePath™ D38 Microwave Motion Sensor with HPR™

SENSORS & SWITCHES



### Product Name SafePath™ D38

Microwave Motion Sensor featuring Human Presence Radar™ (HPR™)

### Manufacturer

MS SEDCO  
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### 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 sensor 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™) sensors provide more safety than any other standalone microwave motion sensor.*

Like other conventional microwave sensors, 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.

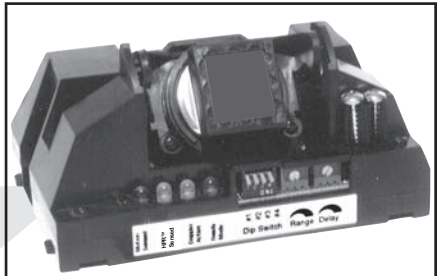
### Technical Data

- 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 A156.10
- Rain Cover Available (DRC)

### SPECIFICATIONS

Model SafePath D38

Frequency	24.125 GHz ± 50 MHz (K-Band)
Detection Method	Initial Detection: Doppler Shift Radar Additional Detection: Human Presence Radar™ (HPR™)
Detection Pattern	Selectable, wide or narrow
Detection Angle	Adjustable, 21° to 45° in 3° increments
Directionality	Switch selectable, Unidirectional or Bidirectional
Range	Adjustable (range pot.)
Max. Mounting Height	15' (4.5m)
Power	12V to 24V AC or DC ± 10%
Power Consumption	3.5W maximum
Output Contact	Form C, rated at 1 amp
Output Power	5mW typical, 2mW minimum
Hold Time	Adjustable, 1.5 to 5 seconds
Mounting	Flush Mounted
Temperature	-22° F to 158° F (-30° C to 70° C)
Color	Flat Black
Weight	<1 lb. (0.454kg)
Size	5 1/4"W x 4"H x 2 7/8"D 13.3cm W x 10.2cm H x 7.3cm D



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## APPLICABLE STANDARDS

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

## APPROVALS

FCC, CE, IC

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 antennas 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.

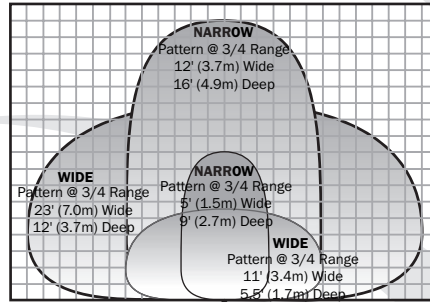
The D38-BDB Bracket is an optional backplate and bracket which allows the installer to elevate and swivel the D38 for more universal configurations.



**D38-BDB**

The D38-MP is an optional mounting plate that will adapt the D38 for mounting to a 1 3/4" door header.

## 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.

## DIMENSIONS

