

# MICROWAVE MOTION SENSOR MICROSTAR™ M HUMAN PRESENCE RADAR™



## MONITORING CAPABILITY

The microStar M is a flush-mount microwave motion sensor with Human Presence Radar™ (HPR™) for activating all types of automatic doors. The microStar M provides unparalleled protection to even the slowest moving pedestrians from doors closing prematurely.

The microStar M is the first motion sensor to feature an "installation mode," which allows the installer to set the detection area without having to physically activate the door.

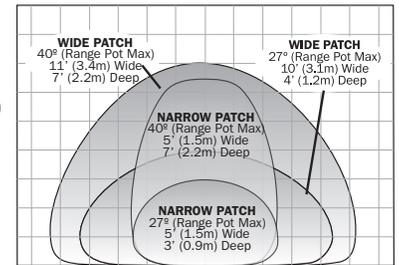
Like other conventional microwave sensors, for the microStar M to activate an automatic door, it utilizes Doppler shift radar to detect movements of at least 2" per second. However, once the door has been activated, the microStar's second level of detection — Human Presence Radar™ — is enabled. Now motion 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
- Install Mode To Set Up Activation Pattern Without Physically Activating Doors
- Fits 1 3/4" Door Frames
- Bidirectional Pattern Adjustment (Left/Right, In/Out)
- Visible LEDs To Verify Activation In Normal Operating Mode
- UV Stabilized ABS Plastic Enclosure



**COVERAGE PATTERN**

## SPECIFICATIONS

Model	microStar™ M
Frequency	24.125 GHz ± 50 MHz (K-Band)
Detection Method	Initial Detection: Doppler Shift Radar Selectable Additional Detection: Human Presence Radar™ (HPR™)
Detection Pattern	Selectable, wide or narrow
Detection Angle	Adjustable, 21° to 90° ±25° Left/Right
Depth angle adjustment	Approach area -15° to +10° Presence/Motion area -10° to +8°
Directionality	Switch Selectable, Unidirectional or Bidirectional
Range	Adjustable (range pot.)
Max. Mounting Height	15' (4.5m)
Power Requirements	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 Optional Universal Mounting Bracket (MS-BDB)
Temperature	-22°F to 158°F (-30°C to 70°C)
Color	Flat Black
Weight	<1 lb. (0.45kg)
Size	6 1/2"W x 1 7/8"H x 2 3/4"D 16.5cmW x 4.8cmH x 7cmD

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