MS SEDCO

ENGINEERED FOR MOTION

MPI MAXIMUM PATTERN INFRARED

Product Name
SafePath™ DH400

Featuring FRM-AI technology with Maximum Pattern Infrared™ (MPI™)

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Product Description
BASIC USE

The SafePath™ DH400 is a high mount active infrared presence sensor designed to provide both activation and safety protection for automatic sliding and folding doors.

The DH400 is based on the most reliable active infrared (AI) technology available—Floor Reflection Method (FRM).

Floor Reflection Method™ (FRM™) sensors with Maximum Pattern Infrared™ (MPI™) provide better safety than other infrared sensors.

With FRM-AI, up to 60 individual detection zones are precisely reflected off of the floor in a rectangular pattern meeting and exceeding ANSI A156.10 guidelines.

The DH400 provides detection as far as 13.1 feet (4.0m) from the door while simultaneously providing a dense zone of presence detection at the threshold of the door. With a sensing area of up to 60 separate detection zones, the DH400 provides the highest density pattern available.

The DH400 is designed for easy field installation and adjustment. The pattern width and depth are both mechanically adjustable. In addition, the depth can be altered electronically from 5 to 2 rows. All adjustments are available without the use of proprietary set-up devices.

Technical Data

- Floor Reflection Method Active Infrared Technology (FRM-AI)
- One Sensor Provides Complete Presence Detection
- Up To 60 Detection Zones
- 4 Presence Timer Settings
- Mounts Up To 13.1' (4.0m)
- Electronic Depth Adjustment From 5 to 2 Rows
- Separate Dip Switch Width Adjustment for Right and Left allowing maximum customization of pattern
- Quick-Connect Wiring Harness Included
- Four Frequency Settings
- 12V to 24V AC or DC Operation
- Form C Dry Relay Contact N.O., COM, N.C.
- Rain Cover Available (DHRC)

SafePath Maximum Pattern Infrared (MPI™) sensors use more beams than other manufacturers—and provide a level of safety not found in other stand-alone infrared sensors.

SPECIFICATIONS

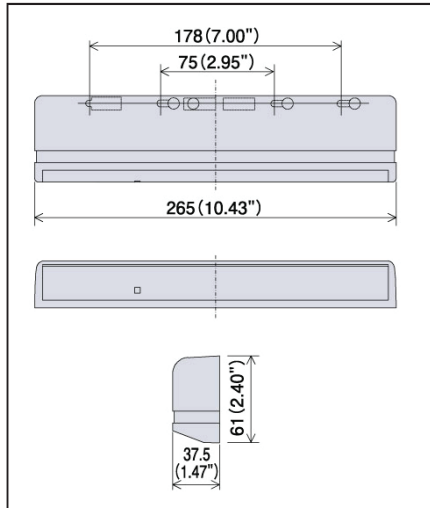|	
Model	DH400
Detection Method	Floor Reflection Method Active Infrared (FRM-AI)
Max. Installation Height	13.1 ft. (4.0m)
Sensitivity Adjustment	Variable (via potentiometer)
Detection Area Adjustment	
Pattern Width:	Up to 12 rows (6 left, 6 right)
Pattern Depth:	5 to 2 Rows + Independent Tilt Settings:
Detection Beams:	Up to 60 Beams
Power Requirements	12V to 24V AC or DC ± 10%
Power Consumption	AC24V-2.5VA, AC12V-2.5VA DC24V-65mA, DC12V-140mA
Output Contact	Form C Relay, DC50V 0.1A Resistor Load
Output Holding Time	Approx. 0.5 Seconds
Presence Timer	2, 30, 60 sec. & infinity
Operation Indication	Red LED = Detecting Green LED = Standby Green Blinking LED - Doorway Learning (when dip switch Y 8 is ON) Orange LED= Detection row "ROW 1 ("ROW 2" when "Doorway Learn" is turned ON) is detecting door movement Orange Blinking LED = Indicates a change of dip switch settings or sensitivity volume Green/Red Blinking LED = Internal Sensor Error
Enclosure Rating	IP54 (IEC60529)

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SafePath™ DH400
FRM-AI Combination
High Mount Presence Sensor

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Temperature Range
-4ºF to 140ºF (-20ºC to 60ºC)

Weight
Approx. 0.64 lbs. (0.29 kg)

Cover Color
Black, Silver

Accessories
Cable: 8.2 ft. (2.5m)

DIMENSIONS

178 (7.00")
75 (2.95")
265 (10.43")
61 (2.40")
37.5 (1.47")

APPLICABLE STANDARDS
American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10.
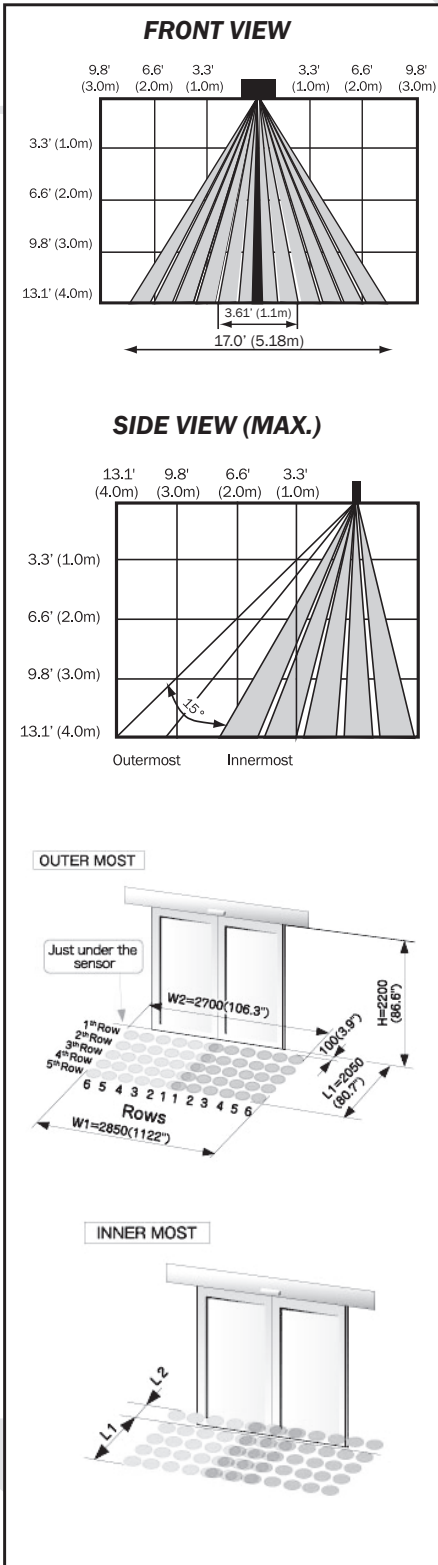Enclosure Rating IP54

APPROVALS
CE

Installation
SETUP AND ADJUSTMENT
The DH400 installs easily. Simple amp connectors make wiring fast. Pattern width is selected by dip switch, mounting and mechanical adjustment. The indicator LED is clearly visible with the cover on. Two 8 position dip switches allow the installer to adjust presence timers, pattern depth, frequency, monitoring modes.

COVERAGE PATTERN

FRONT VIEW

9.8' (3.0m) 6.6' (2.0m) 3.3' (1.0m) 3.3' (1.0m) 6.6' (2.0m) 9.8' (3.0m)
3.3' (1.0m)
6.6' (2.0m)
9.8' (3.0m)
13.1' (4.0m)
3.61' (1.1m)
17.0' (5.18m)

SIDE VIEW (MAX.)

13.1' (4.0m) 9.8' (3.0m) 6.6' (2.0m) 3.3' (1.0m)
3.3' (1.0m)
6.6' (2.0m)
9.8' (3.0m)
13.1' (4.0m)
15°
Outermost   Innermost

OUTER MOST
Just under the sensor
W2=2700(106.3")
H=2200 (86.6")
100(3.9")
L1=2050 (80.7")
1st Row 2th Row 3th Row 4th Row 5th Row
6 5 4 3 2 1 1 2 3 4 5 6
Rows
W1=2850(1122")

INNER MOST
L1
L2

(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.

42014