



ENGINEERED FOR MOTION



# SafePath™ DH94 FRM-AI Presence Sensor



## Product Name SafePath™ DH94

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

## Contact Information

MS SEDCO  
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www.mssedco.com

## Product Description

### BASIC USE

The SafePath DH94 is a 4-row presence sensor designed to provide both activation and safety protection to automatic sliding entrances with shallow approaches such as those found in a typical “strip center” shopping complex.

The DH94 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 32 individual detection zones are precisely reflected off of the floor in a rectangular pattern meeting and exceeding ANSI A156.10 guidelines.

*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.*

The DH94 is designed for easy field installation and adjustment. The pattern width and depth are mechanically adjustable. In addition, depth can be altered electronically from 4 rows to 1 row thus providing either a pattern deep enough for both activation and safety or shallow enough for curtain-like safety protection at the threshold. All adjustments are available without the use of proprietary set-up devices.

### Technical Data

- Floor Reflection Method Active Infrared (FRM-AI) Technology
- Up To 32 Detection Zones
- Quick-Connect Wiring
- Mount Up To 9.8' (3m) High
- Programmable Presence Timer (2, 30, 60 or ∞ Seconds)
- Tape-Free Masking
- No Lens Changing
- Electronic Depth Adjustment (From 4 to 1 Rows)
- Snow Mode
- Indicator LED
- Elevation Angle Adjustment (0° to 5°)
- 12V or 24V AC or DC Operation
- Rain Cover Available (DHRC)

## SPECIFICATIONS

Model	SafePath DH94
Detection Method	Floor Reflection Method Active Infrared (FRM-AI)
Max. Installation Height	9.8 Feet (3m)

### Detection Area Adjustment

- Pattern Width (Wide & Narrow)
- Pattern Depth (4 to 1 Rows)
- Angle Adjustment (0° to 5°)

### Power Requirements

12V to 24V AC or DC ± 10%

### Power Consumption

- AC12V: 1.35VA Max
- AC24V: 1.5VA Max
- DC12V: 65mA, DC24V: 35mA

### Output Contact

Form C Relay: DC50V 0.1A  
(Resistor Load)

### Output Holding Time

Approx. 0.5 Seconds

### Presence Timer

2, 30, 60 or ∞ Seconds  
Programmable Via Dip Switch

### Operation Indication

- Red LED = Detecting
- Green LED = Standby
- Orange LED = Door movement detected
- Fast Flashing ORANGE = Waiting for reset
- Flashing RED/GREEN = Reflection Diagnostics

### Temperature Range

-4° F to 140° F (-20° C to 60° C)

### Weight

Approx. 0.40 lbs. (0.180 kg)

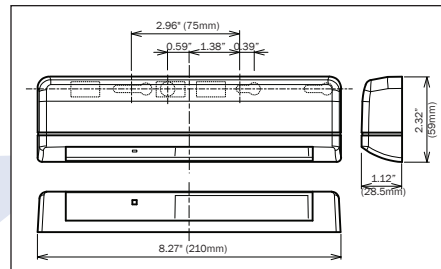
### Cover Color

Black

### Accessories

Cable: 8 ft. (2.5m)

## DIMENSIONS



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## APPLICABLE STANDARDS

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

Enclosure Rating IP54 (IEC60529)

## APPROVALS

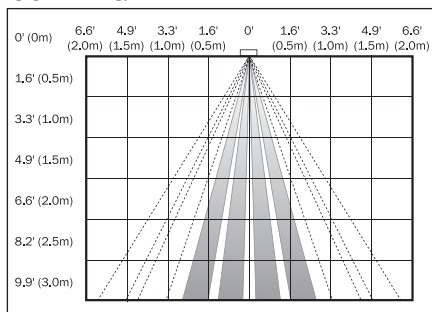
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## Installation

### SETUP AND ADJUSTMENT

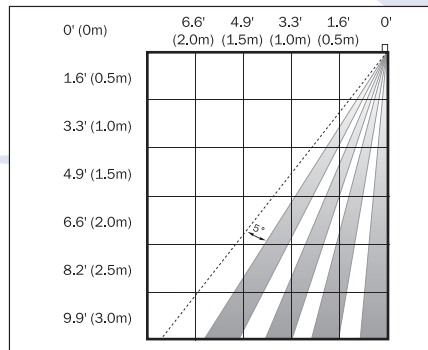
The DH94 installs easily. Simple amp connectors make wiring fast. Side levers allow pattern width to be adjusted from wide to narrow and the body of the sensor can be tilted to adjust pattern depth. The indicator LED is clearly visible with the cover on. An 8 position dip switch allows the installer to adjust the presence timer, pattern depth, frequency and monitoring modes.

## COVERAGE PATTERN



Wide Pattern @ Maximum  
10' (3m) Wide

Narrow Pattern @ Maximum  
4' (1.2m) Wide



Wide Pattern @ Maximum  
7' (2m) Deep

Narrow Pattern @ Maximum  
7' (2m) 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.