**Product Name**

SafePath™ DH100

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

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**Contact Information**

MS SEDCO

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**Product Description**

**BASIC USE**

The SafePath™ DH100 is a combination 2-row motion, 3-row presence sensor designed to provide both activation and safety protection for automatic sliding and folding doors.

The DH100 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 48 individual detection zones are precisely reflected off of the floor in a rectangular pattern meeting and exceeding ANSI A156.10 guidelines.

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**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.**

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The DH100 provides motion detection as far as 8 feet (2.4m) 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 48 separate detection zones, the DH100 provides the highest density pattern available.

The DH100 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 Both Motion and Presence Detection
- Up To 48 Detection Zones
- Inner 3 Rows: 4 Presence Timer Settings
- Outer 2 Rows: 2 Motion Timer Settings
- Mounts Up To 9’ (2.7m)
- Electronic Depth Adjustment From 5 to 2 Rows
- Independent Mechanical Tilt Adjustment for Inner 3 Rows of Presence and Outer 2 Rows of Motion
- Independent Mechanical Width Adjustment for Inner 3 Rows of Presence and Outer 2 Rows of Motion
- 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)

**SPECIFICATIONS**

- **Model**: DH100
- **Detection Method**: Floor Reflection Method Active Infrared (FRM-AI)
- **Max. Installation Height**: 9 ft. (2.7m)
- **Sensitivity Adjustment**: Variable (via potentiometer)
- **Detection Area Adjustment**
  - **Pattern Width**: Inner 3 Rows = 2 Position Knob, Outer 2 Rows = 2 Position Knob
  - **Pattern Depth**: 5 to 2 Rows + Independent Tilt Settings: Inner 3 Rows: 0° - 8° in 5 Steps, Outer 2 Rows: 0° - 10° in 5 Steps
- **Detection Beams**: Up to 48 Beams Inner 2 Rows = 12 Beams/Row Outer 3 Rows = 8 Beams/Row
- **Presence Detection**: 1, 2 & 3 Rows (Door)
- **Motion Detection**: 4 & 5 Rows (Approach)
- **Power Requirements**: 12V to 24V AC or DC ± 10%
- **Power Consumption**: AC24V-2VA, AC12V-1.5VA, DC24V-50mA, DC12V-80mA
- **Output Contact**: Form C Relay, DC50V 0.1A Resistor Load
- **Output Holding Time**: Approx. 0.5 Seconds
- **Presence Timer**: (Rows 1, 2 & 3 Only) 2, 15, 60 sec. & infinity
- **Motion Timer**: (Rows 4 & 5 Only) 2, 15 sec.
- **Operation Indication**: Red LED = Detection
  Green LED = Monitoring Area
  Orange LED = Abnormal
- **Enclosure Rating**: IP54 (IEC60529)

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SafePath™ DH100
FRM-AI Combination Motion & Presence Sensor

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

Weight
Approx. 0.55 lbs. (0.25 kg)

Cover Color
Black

Accessories
Cable: 5 ft. (1.5m)

DIMENSIONS

APPLICABLE STANDARDS
American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10.
Enclosure Rating IP54 (IEC60529)

APPROVALS
CE

Installation
SETUP AND ADJUSTMENT
The DH100 installs easily. Simple amp connectors make wiring fast. Pattern width is selected by mechanical knobs. Pattern depth is adjustable via mechanical side levers. The indicator LED is clearly visible with the cover on. An 8 position dip switch allows the installer to adjust presence/motion timers, pattern depth, frequency, monitoring modes.

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

Availability & Cost
AVAILABILITY
Available internationally from manufacturer’s authorized distributors; contact MS SEDCO for the location of nearest distributor.

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.