



DH100 Floor Reflection Method (FRM) Active Infrared Combination Motion & Presence Detector

SENSORS & SWITCHES



Product Name
DH100 Floor Reflection Method (FRM) Active Infrared Combination Motion & Presence Sensor

Manufacturer
MS Sedco
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (800) 842-2545
(317) 842-2545
Fax: (800) 849-3387
(317) 849-3387
Email: custsvc@mssedco.com
www.mssedco.com

Product Description
BASIC USE
The DH100 is a combination 2-row motion, 3-row presence sensor designed to provide both activation and safety protection for automatic sliding doors in a single device.

The DH100 is based on the most reliable active infrared technology available—Floor Reflection Method (FRM). With FRM up to 40 individual detection zones are precisely reflected off of the floor in a rectangular pattern meeting and exceeding ANSI/BHMA A156.10 guidelines.

The DH100 provides motion detection as far as 7 feet (2.2m) from the door while providing a dense zone of presence detection in close to the door. With a

sensing area made up of 40 separate detection zones, the DH100 provides the highest density infrared sensing area available for combination motion and presence detection.

Sensor pattern depth is both mechanically and electronically adjustable. The 2-rows of motion detection and 3-rows of presence detection are independently adjustable via side levers. In addition, the depth of the pattern can be altered electronically from 5 rows to 2 rows. Other electronic adjustments such as 4 presence timer settings, 4 frequency settings, 2 motion timer settings and interior/exterior modes are available without the use of proprietary set-up devices.

- Technical Data
• Floor Reflection Method (FRM) Active Infrared Technology
• One Sensor Provides Both Motion and Presence Detection
• Up To 40 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
• 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.

Table with specifications: SPECIFICATIONS, Model (DH100), Detection Method (Floor Reflection Method (FRM) Active Infrared), Max. Installation Height (9 ft (2.7m)), Sensitivity Adjustment (Variable (via potentiometer)), Detection Area Adjustment (Pattern Width: Adjustable (via mounting height only) 7.5 ft. wide at 7 ft. high; 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: 8 Beams x 5 Rows = 40 Beams; Presence Detection: 1, 2 & 3 Rows (Door Side); Motion Detection: 4 & 5 Rows (Approach Side)), 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))

Automatic Door Sensors 08717

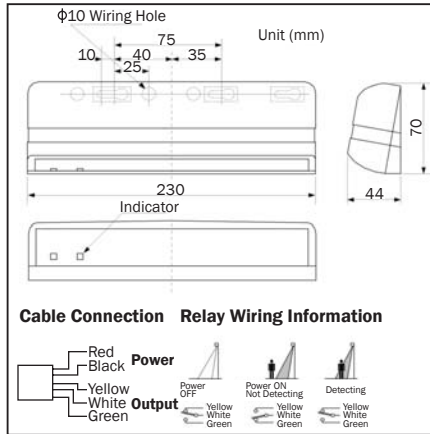


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SENSORS & SWITCHES

Temperature Range	-4 °F to 140 °F (-20 °C to 60 °C)
Weight	Approx. 0.55 lbs. (0.25 kg)
Cover Color	Black
Accessories	Cable: 5 ft. (1.5m)

DIMENSIONS



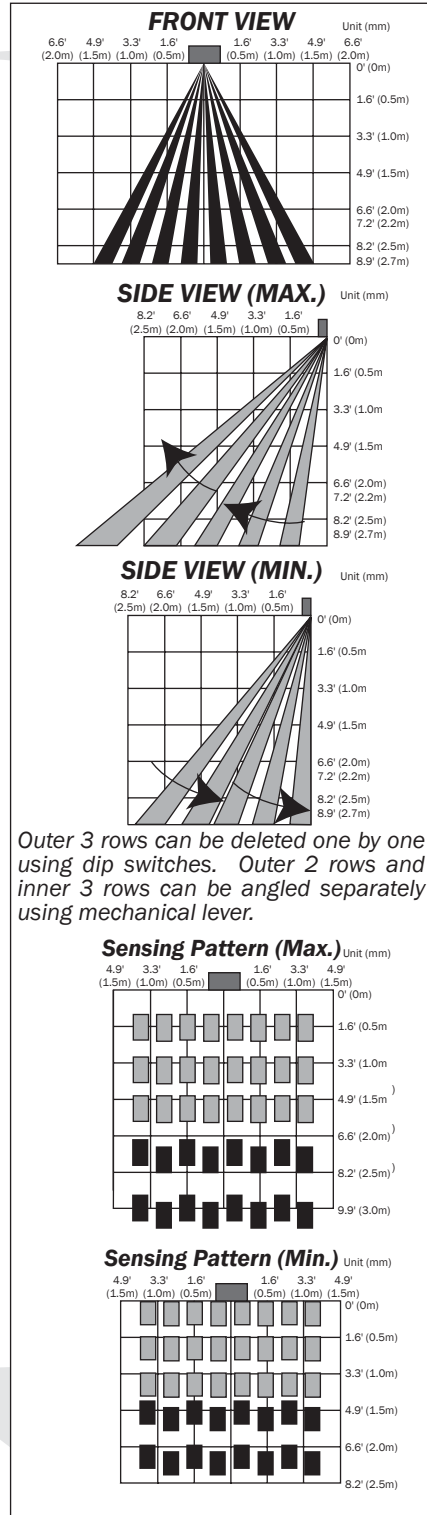
APPLICABLE STANDARDS
 American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10.
 Enclosure Rating IP54 (IEC60529)

APPROVALS
 CE

Installation
SETUP AND ADJUSTMENT
 The DH100 installs easily. Simple amp connectors make wiring fast. Pattern width is selected by mounting height. 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.

COVERAGE PATTERN



Outer 3 rows can be deleted one by one using dip switches. Outer 2 rows and inner 3 rows can be angled separately using mechanical lever.

(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.

Filing Systems

- Sweet's
- Additional product information is available from the manufacturer upon request.