



ENGINEERED FOR MOTION



SafePath™ DH100-CT Sliding Pedestrian Door Motion & Presence Sensor



Product Name SafePath™ DH100-CT

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

Contact Information

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Product Description

BASIC USE

The SafePath™ DH100-CT is an active infrared presence sensor that is designed to provide both activation and safety detection for automatic sliding and folding doors in a single device.

The DH100-CT 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 points are precisely reflected off of the floor in a rectangular pattern meeting and exceeding ANSI A156.10 guidelines.

The DH100-CT 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
- Test Input provides sensor monitoring capabilities as required by the latest industry standard.
- Pattern depth and width are adjustable using mounting height, dip switches, detection area depth, and detection area width adjustments.
- Frequency can be changed to prevent interference from other sensors in close proximity.
- Self-Diagnostic means the sensor continuously monitors itself.
- Monitor Mode Switch ensures against false operation caused by snow, leaves, insects, etc.
- Programmable Presence Timer (2 sec., 30 sec., 60 sec., or infinity).

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	DH100-CT
Detection Method	Floor Reflection Method Active Infrared (FRM-AI)
Max. Installation Height	9.84 ft. (3.0m)

Sensitivity Adjustment
Variable (via potentiometer)

Detection Area Adjustment
Pattern Depth (2 to 5 rows via dip switch setting) and Angle Adjustment Levers (Outer 2 Rows 10° in 3 steps; Inner 3 Rows 8° in 3 steps)
Pattern Width via 2 Position Mechanical Mask Knobs (Outer 2 Rows = Narrow or Wide Inner 3 Rows = Single or Double Door)

Detection Beams
Up to 48 Beams (Inner 2 Rows: 12 Beams x 2 Rows) (Outer Rows: 8 Beams x 3 Rows)

Presence Detection
1, 2 & 3 Inner Rows (Safety)

Motion Detection
4&5 Outer rows (Approach)

Power Requirements
12V to 24V AC or DC ± 10%

Power Consumption (Max.)
AC12V-1.5VA, AC24V-2.0VA
DC12V-80mA, DC24V-50mA

Output Contact
Form C Relay, DC50V 0.1A (Resistor Load)
Yellow Wire = Normally Open
Green Wire = Normally Closed
White Wire = Common
Relay is “driven” when power fails

Output Holding Time
Approx. 0.5 Seconds

Presence Timer
Outer 2 Rows (1 sec.)
Inner 3 Rows (2, 30, 60 sec. & infinity)

Operation Indication
Red LED = Detecting
Green LED = Standby
Orange LED= Detection row “ROW 1” is too close to the door

Temperature Range
-4° F to 140° F (-20° C to 60° C)

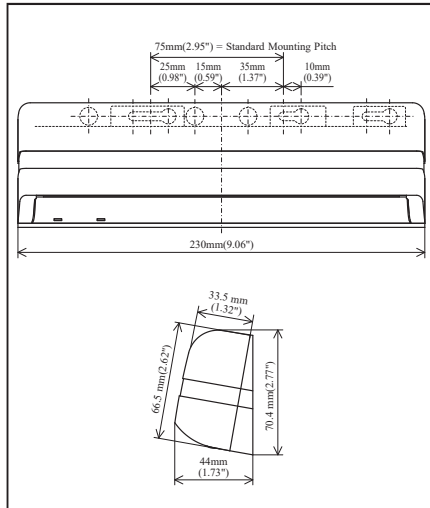
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Weight	Approx. 0.55 lbs. (0.25 kg)
Cover Color	Black
Accessories	Cable, Mounting Screws, Mounting Template, Installation Instructions

DIMENSIONS



APPLICABLE STANDARDS

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

APPROVALS

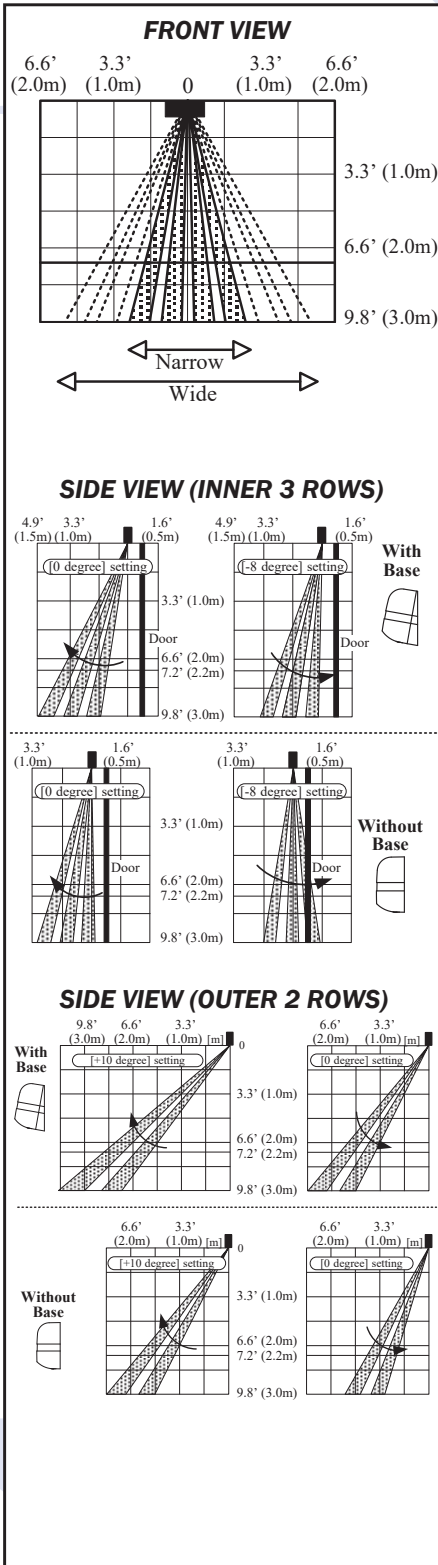
CE

Installation

SETUP AND ADJUSTMENT

The DH100-CT 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



(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.