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- **CP/TX-HH** Hand Held Micro-Transmitters

ClearPath™ SPECTRUM RADIO CONTROL PRODUCTS

- **S-TRX** Spectrum Transceivers
- **S-TRX-J** Spectrum Jamb Mount Transceivers
- **S-COR** Spectrum Coordinator
- **S-TRX-HH** Spectrum Transceiver Hand Held & Retrofit
- **S-TRX-V** 2 Spectrum Transceivers with 1015 Square Mounting Box

AccuGuard™ SAFETY BEAMS

- **HP-2** Modular Safety Beam System
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- **DB11** Recess Mount Safety Beams

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- **TDM** Universal Timing Module
- **TDM-HC** High Current Universal Timing Module
- **RLM** Relay Lockout Module with Safety Beams
- **SAM** Secondary Activation Module
- **PTM** Privacy Timing Module

DOOR DECALS & ACCESSORIES

- **ANSI Door Safety Decals**
- **Accessories**

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MS SEDCO

ENGINEERED FOR MOTION

microStar™ Sensor

microStar™ M
Microwave Motion Sensor with HPR™



Product Name

microStar™ M

Microwave Motion Sensor featuring Human Presence Radar™ (HPR™)

Contact Information

MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com
info@mssedco.com

Product Description

BASIC USE

The microStar M is a flush-mount microwave motion sensor with Human Presence Radar™ (HPR™) for activating all types of automatic doors. The microStar M provides unparalleled protection to even the slowest moving pedestrians from doors closing prematurely.

The microStar M is the first motion sensor to feature an "installation mode," which allows the installer to set the detection area without having to physically activate the door.

Human Presence Radar™ (HPR™) sensors provide more safety than any other standalone microwave motion sensor.

Like other conventional microwave sensors, for the microStar M to activate an automatic door, it utilizes Doppler shift radar to detect movements of at least 2" per second. However, once the door has been activated, the microStar's second level of detection — Human Presence Radar™ — is enabled. Now motion down to 1/4" per second can be detected. This means with HPR™ enabled, persons virtually standing still will continue to be detected anywhere in the detection zone.

Since conventional Doppler shift radar must initially activate the door before enabling Human Presence Radar™, there is no additional chance for false activation of the door because HPR™ alone cannot activate the door.

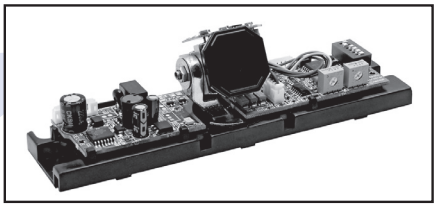
Human Presence Radar™ gives slow moving, elderly or disabled persons the confidence that once they have been initially detected, they can safely approach an automatic door at any speed without the door closing prematurely.

Technical Data

- Human Presence Radar™ (HPR™) Provides Additional Level of Motion Detection After Initial Door Activation
- Unidirectional & Bidirectional, Narrow & Wide Patterns, and Variable Elevation, In One Unit
- Two Planar Antennas Included
- Can Be Mounted Up To 15 Feet Above Floor
- Easy To Install and Set-Up Without Proprietary External Devices
- Easy Sensitivity and Time Delay Adjustments
- Install Mode To Set Up Activation Pattern Without Physically Activating Doors
- Fits 1 3/4" Door Frames
- Bidirectional Pattern Adjustment (Left/Right, In/Out)
- Visible LEDs To Verify Activation In Normal Operating Mode
- UV Stabilized ABS Plastic Enclosure
- Rain Cover Available (MSRC)

SPECIFICATIONS

Model	microStar™ M
Frequency	24.125 GHz ± 50 MHz (K-Band)
Detection Method	*Initial Detection:* Doppler Shift Radar *Selectable Additional Detection:* Human Presence Radar™ (HPR™)
Detection Pattern	Selectable, wide or narrow
Detection Angle	Adjustable, 21° to 90° ±25° Left/Right
Directionality	Switch Selectable, Unidirectional or Bidirectional
Range	Adjustable (range pot.)
Max. Mounting Height	15' (4.5m)
Power Requirements	12V to 24V AC or DC ± 10%
Power Consumption	3.5W Maximum
Output Contact	Form C, Rated at 1 Amp
Output Power	5mW Typical, 2mW Minimum
Hold Time	Adjustable, 1.5 to 5 Seconds
Mounting	Flush Mounted *Optional Universal Mounting Bracket (MS-BDB)*
Temperature	-22°F to 158°F (-30°C to 70°C)
Color	Flat Black
Weight	<1 lb. (0.45kg)
Size	6 1/2"W x 1 7/8"H x 2 3/4"D 16.5cmW x 4.8cmH x 7cmD



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microStar™M
Microwave Motion Sensor with HPR™

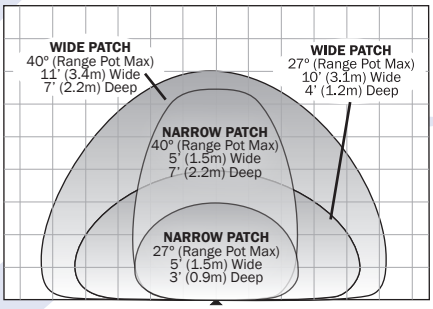
APPLICABLE STANDARDS
American National Standards Institute (ANSI) - Building Hardware Manufacturer's Association (BHMA) - ANSI/BHMA A156.10.

APPROVALS
FCC, CE, IC

Installation

SETUP AND ADJUSTMENT
The microStar M installs easily. A self-stick template allows for easy prep for the sensor's backplate. Wires are then attached to the sensor via a harness. A clearly visible LED lights and indicates sensor state when power is applied. A four-position dip switch allows the installer to select bidirectional or unidirectional (either approach or depart) activation, set failsafe mode, and to deactivate Human Presence Radar™ (HPR™) if desired. An Install Mode allows for the detection to be set without activating the door. The planar antennas are interchangeable for wide and narrow patterns and may be adjusted to move the pattern in and out from the door, or left to right. A range potentiometer further adjusts the range, and a second potentiometer adjusts the time delay from 1.5 to 5 seconds. Once the appropriate range is reached, the installer finishes by attaching the cover

COVERAGE PATTERN



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 distributors.

Warranty

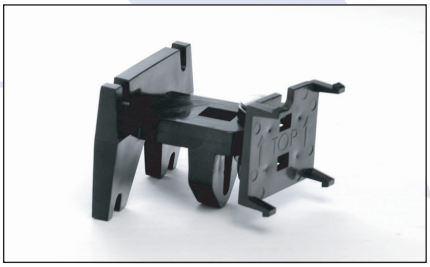
A three year warranty is available from the manufacturer covering defects in materials and workmanship. Contact MS SEDCO for details.

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.

MS-BDB

(Optional Mounting Bracket)



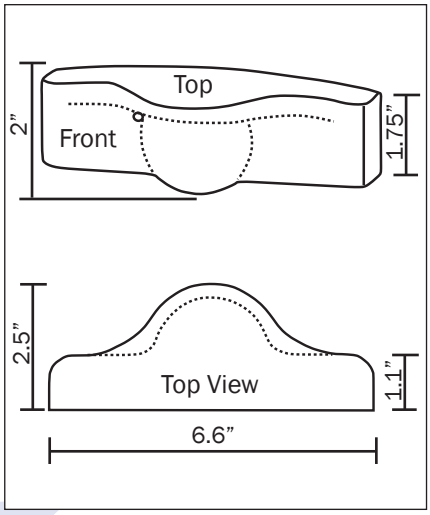
The MS-BDB is an optional mounting device that allows the installer to elevate and rotate the microStar-M for special configurations.

MSRC

(Optional Rain Cover)



DIMENSIONS

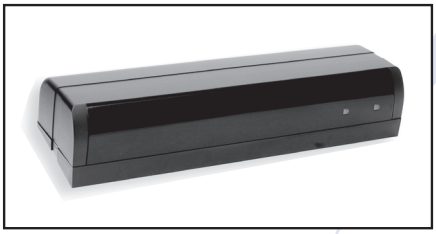


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ENGINEERED FOR MOTION

SafePath™ DH100
FRM-AI Combination Universal Time Delay Module



Product Name

SafePath™ DH100

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

Contact Information

MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

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.

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 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)

SafePath™ DH100
FRM-AI Combination Motion & Presence Sensor

MPL MAXIMUM PATTERN INFRARED

MS SEDCO
ENGINEERED FOR MOTION

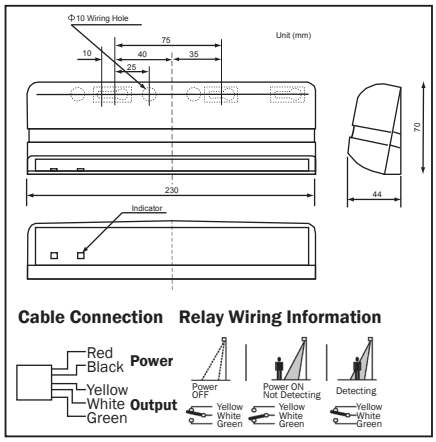
Temperature Range
-4°F to 140°F (-20°C to 60°C)

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)

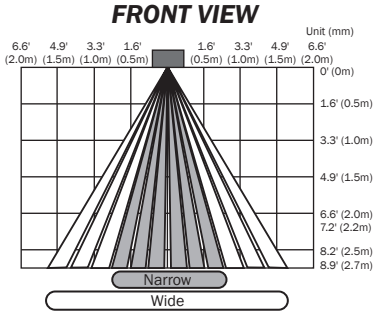
APPROVALS
CE

Installation

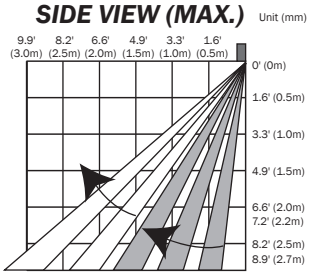
SETUP AND ADJUSTMENT
The DH100 installs easily. Simple amp connectors make wiring fast. Pattern width is selected by mechanical knobs. Pattern depth is adjustable via mechanical side levers. The indicator LED is clearly visible with the cover on. An 8 position dip switch allows the installer to adjust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

COVERAGE PATTERN

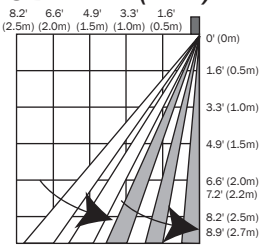
FRONT VIEW



SIDE VIEW (MAX.) Unit (mm)

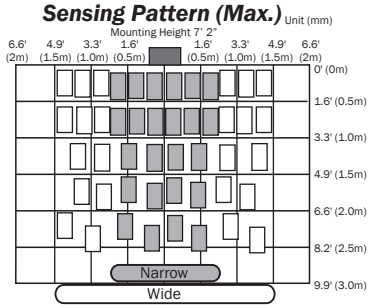


SIDE VIEW (MIN.) Unit (mm)

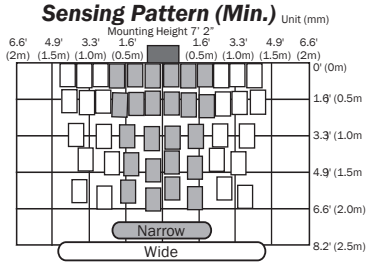


Outer 3 rows can be deleted one by one using dip switches. Outer 2 rows and inner 3 rows can be angled separately using mechanical lever.

Sensing Pattern (Max.) Unit (mm)



Sensing Pattern (Min.) Unit (mm)



(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.

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ENGINEERED FOR MOTION

SafePath™ DHR3
Combination Microwave Motion & Active Infrared Presence Sensor



Product Name
SafePath™ DHR3
Combination Microwave Motion and Active Infrared Presence Detector

Contact Information
MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

Product Description
BASIC USE
The SafePath™ DHR3 is a combination microwave and active infrared motion/presence sensor designed to provide both activation and safety protection for automatic sliding and folding doors.

The DHR3 is based on the most reliable microwave and 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.

The DHR3 provides motion detection as far as 10.5 feet (3.2m) from the door while simultaneously providing a dense zone of presence detection at the threshold of the door.

The DHR3 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
- Doppler Shift Radar & Active Infrared Reflection Technology
- One Sensor Provides Complete Motion & Presence Detection
- 4 Presence Timer Settings
- Mounts Up To 10.5' (3.2m)
- Electronic Depth Adjustment
- 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

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	DHR3
Detection Method	Doppler Shift Radar & Active Infrared Reflection
Max. Installation Height	10.5 ft. (3.2m)
Power Requirements	12V to 24V AC or DC ± 10%
Power Consumption	AC24V-2.5VA, AC12V-2.5VA DC24V-65mA, DC12V-140mA

INFRARED SENSOR

Detection Method	Active Infrared Reflection
Output Holding Time	0.5 seconds
Response Time	0.1 to 0.2 seconds
Presence Timer	2, 30, 60 seconds or infinity
Output Contact	7.5mA Max (Resistor Load), 55V DC Max Voltage, 50mA MAx Current

MICROWAVE SENSOR

Detection Method	Doppler Shift Radar
Operating Frequency	24.15 GHz
Output Holding Time	1.5 seconds
Response Time	0.1 to 0.2 seconds
Output Contact	Form C Relay, DC50V 0.1A Resistor Load

Operation Indication

GREEN LED = Standby
GREEN Blinking LED - Doorway Learning (when dip switch Ⓨ5 is ON)
BLUE LED = Radar Detecting
RED LED = IR Detecting/Radar and IR Detecting
Orange LED= Detection row "ROW 1 ("ROW 2" when "Doorway Learn" is turned ON) is detecting door movement
ORANGE Blinking (Fast) LED = Indicates a change of dip switch settings
ORANGE Blinking (Slow) LED = Door Hold is turned ON (When dip switch Ⓨ4 is ON)
GREEN/RED Blinking (Fast) LED = Internal Sensor Error
GREEN/RED Blinking (Slow) LED = Reflected infrared signal from the floor is very low

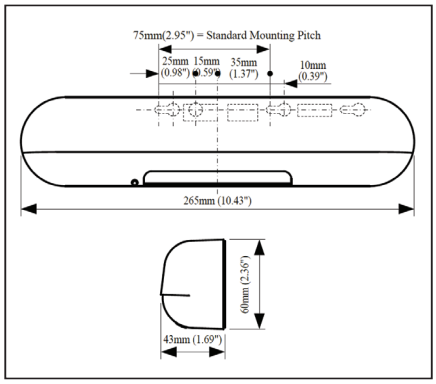
SafePath™ DHR3
Combination Microwave Motion & Active Infrared Presence Sensor

MPI MAXIMUM PATTERN INFRARED

MS SEDCO
ENGINEERED FOR MOTION

Enclosure Rating	IP54 (IEC60529)
Temperature Range	-4°F to 140°F (-20°C to 60°C)
Weight	Approx. 0.58 lbs. (0.28 kg)
Cover Color	Black, Silver
Accessories	Cable: 8.2 ft. (2.5m) 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

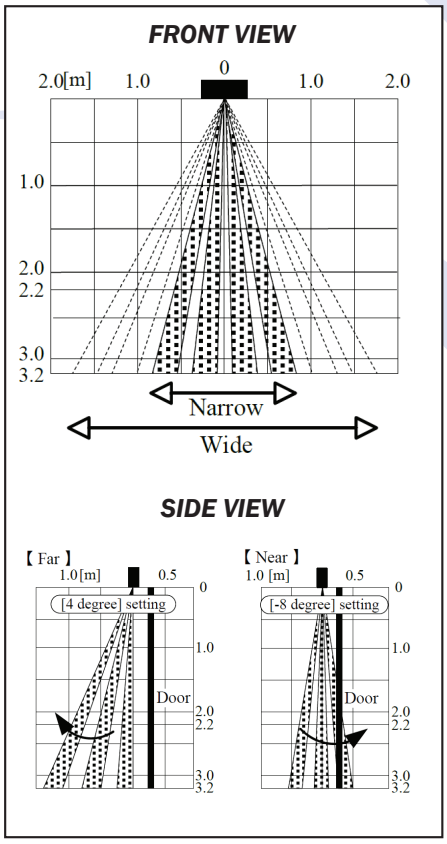
CE

Installation

SETUP AND ADJUSTMENT

The DHR3 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 multiple-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

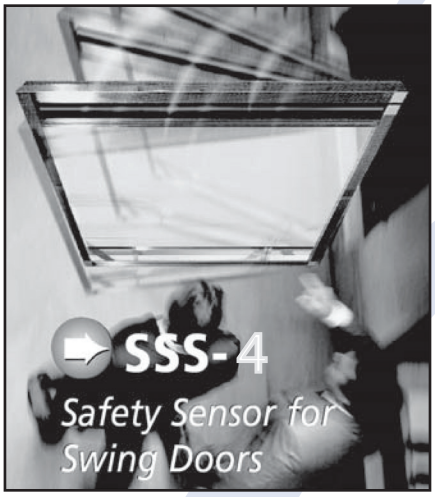
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ENGINEERED FOR MOTION

SafePath™ SSS-4
Swing Door Mounted Presence Sensor





Product Name
SafePath™ SSS-4
Swing Door Mounted Presence Sensor

Contact Information
MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

Product Description
BASIC USE

The SafePath SSS-4 is a door mounted presence sensor designed to provide safety protection for any swing, bi-fold, revolving and low energy automatic doors. On swing doors, while the door is opening, the SSS-4 will sense and protect a person in it's path and either slow or stop the door. When the door is closing, the SSS-4 will sense a person in it's path and reopen the door.

The SSS-4 combines the most reliable active infrared technology available with Position Sensitive Detection (PSD) technology found in auto focus cameras to ensure precise pedestrian detection within the path of a moving door panel.

The SSS-4 mounts near the top of the door panel out of harms way. PSD sensor technology automatically focuses the sensor lenses to dipswitch controlled height settings. The detection area width can be increased by inserting additional PSD sensor modules into the 34 3/4" long extruded aluminum housing. Each sensor module's detection zone can then be adjusted independently.

The PSD sensor module consists of a transmitter (TX) and a receiver (RX) that emits a precise detection pattern that functions independently of other modules. Two standard versions of the SSS-4 are available.

The SSS-4 mounts on either side or both sides of a door panel depending upon the application. They can also be used to stand alone or in conjunction with other sensors for complete swing door safety. Consult ANSI A156.10 to ensure proper usage and to meet all safety requirements.

Technical Data

- Combines reliable active infrared and Auto Focus Position Sensitive Detection (PSD) technologies for precise detection
- Mounts at top of door to eliminate potential damage from shopping carts and hospital beds
- One (SSS-4L1), two (SSS-4L2)
- Works with any manufacturer's operator
- Adjustable detection angle, distance and width
- Quick-Connect wiring harnesses
- Infinite presence timer
- 12V to 24V AC or DC Operation
- Form C Dry Relay Contact; Output Logic Dipswitch Selectable

SPECIFICATIONS

Model	SafePath SSS-4 Door Mounted Presence Sensor
Detection Method	Active Infrared with Position Sensitive Detection (PSD) Measurement
Max. Installation Height	8'6" (2.6m)
Detection Range	0'-8'6" (0-2.6m)
Beam Angle Adjustment	5°, 10°, 15°, 20°, 25°
Presence Timer	Infinity
Power Supply	12-24V AC or DC ± 10%
Power Consumption (per sensor module)	AC12V-1.3VA, DC12V-65mA AC24V-1.7VA, DC24V-35mA

SafePath™ SSS-4
Swing Door Mounted Presence Sensor

ENGINEERED FOR MOTION

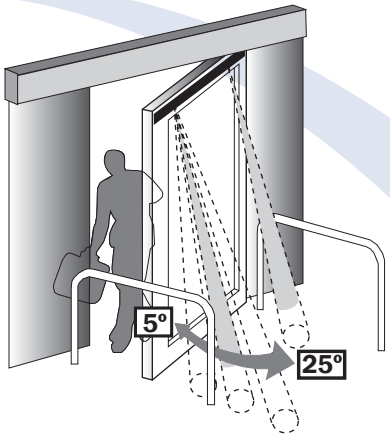
Output Contact	Form C Relay; DC50V 0.1A Non Voltage 1C
Response Time	<100mSec.
Delay Hold Time	0.5, 2 sec.
Temperature Range	-4°F to 140°F (-20°C to 60°C)
Weight	SSS-4L1: 0.8lbs. (350g) SSS-4L2: 1.5 lbs. (700g)
Color	Black

APPLICABLE STANDARDS

American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10, A156.19, A156.27

DETECTION AREA

Detection Angle can be changed from 5°-25°, in 5° steps, using Angle Stabilizer.



* SSS-4L2 with two sensor modules is shown

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.

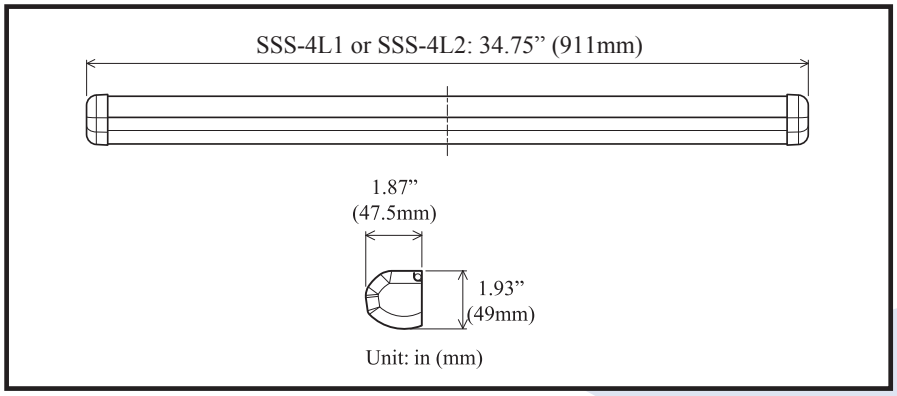
Maintenance

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.

DIMENSIONS



012015

8701 Castle Park Drive ■ Indianapolis, Indiana 46256 ■ Telephone: (317) 842-2545 ■ Fax: (317) 849-3387
www.mssedco.com ■ custsvc@mssedco.com

ENGINEERED FOR MOTION

SafePath™ DH400
FRM-AI Combination High Mount Presence Sensor



Product Name
SafePath™ DH400
Featuring FRM-AI technology with Maximum Pattern Infrared™ (MPI™)

Contact Information
MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

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)

SafePath™ DH400
FRM-AI Combination High Mount Presence Sensor

MPL MAXIMUM PATTERN INFRARED

MS SEDCO
ENGINEERED FOR MOTION

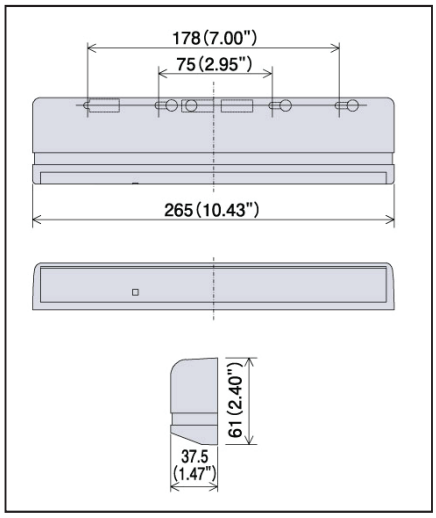
Temperature Range
-4°F to 140°F (-20°C to 60°C)

Weight
Approx. 0.64 lbs. (0.29 kg)

Cover Color
Black, Silver

Accessories
Cable: 8.2 ft. (2.5m)

DIMENSIONS



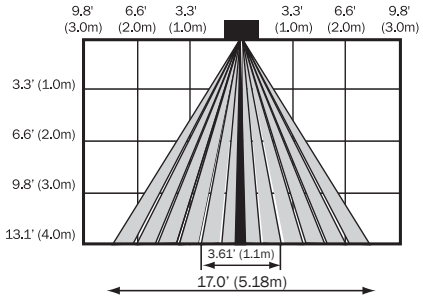
APPLICABLE STANDARDS
American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10.
Enclosure Rating IP54

APPROVALS
CE

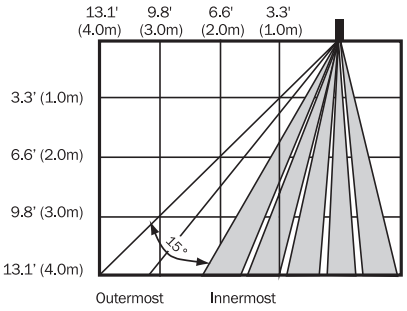
Installation
SETUP AND ADJUSTMENT
The DH400 installs easily. Simple amp connectors make wiring fast. Pattern width is selected by dip switch, mounting and mechanical adjustment. The indicator LED is clearly visible with the cover on. Two 8 position dip switches allow the installer to adjust presence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

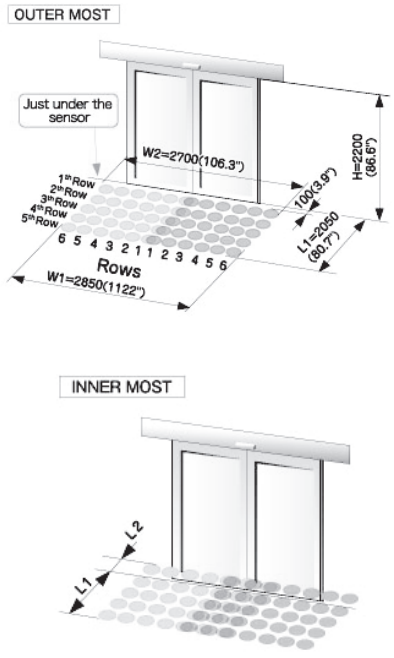
COVERAGE PATTERN

FRONT VIEW



SIDE VIEW (MAX.)





(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.

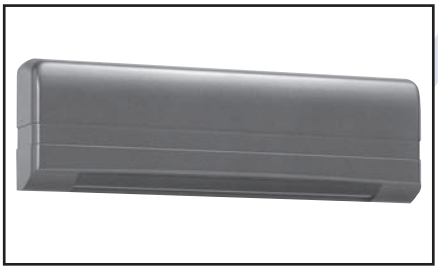
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www.mssedco.com ■ custsvc@mssedco.com

MS SEDCO

ENGINEERED FOR MOTION

MPI MAXIMUM PATTERN INFRARED™

SafePath™ DH94D
FRM-AI Presence Sensor



Product Name

SafePath™ DH94D

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

Contact Information

MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

Product Description

BASIC USE

The SafePath DH94D 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 DH94D 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 DH94D 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.

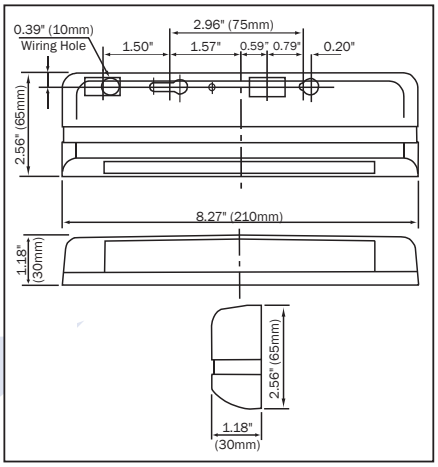
Technical Data

- Floor Reflection Method Active Infrared (FRM-AI) Technology
- Up To 32 Detection Zones
- Quick-Connect Wiring
- Mount Up To 10' (3m) High
- Programmable Presence Timer (2, 15, 60 or 180 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 DH94D
Detection Method	Floor Reflection Method Active Infrared (FRM-AI)
Max. Installation Height	10 Feet (3m)
Detection Area Adjustment	Pattern Width (Wide & Narrow) Pattern Depth (4 to 1 Rows) Angle Adjustment (0° to 5° in 3 steps)
Power Requirements	12V to 24V AC or DC ± 10%
Power Consumption	AC24V-2VA, AC12V-1.5VA DC24V-55mA, DC12V-85mA
Output Contact	Form C Relay: DC50V 0.1A (Resistor Load)
Output Holding Time	Approx. 0.5 Seconds
Presence Timer	2, 15, 60 or 180 Seconds Programmable Via Dip Switch
Operation Indication	Red LED = Detecting Green LED = Standby Orange LED = Abnormal
Temperature Range	-4°F to 140°F (-20°C to 60°C)
Weight	Approx. 0.43 lbs. (0.195 kg)
Cover Color	Black
Accessories	Cable: 5 ft. (1.5m)

DIMENSIONS



012015

SafePath™ DH94D
FRM-AI Presence Sensor

MPI MAXIMUM PATTERN INFRARED

MS SEDCO

ENGINEERED FOR MOTION

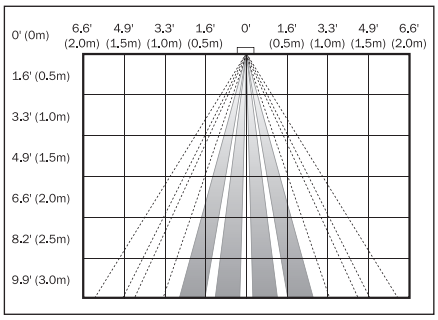
APPLICABLE STANDARDS
American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10.
Enclosure Rating IP54 (IEC60529)

APPROVALS
CE

Installation

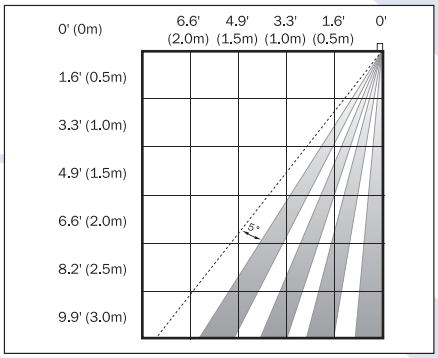
SETUP AND ADJUSTMENT
The DH94D installs easily. Simple amp connectors make wiring fast. Side levers allow pattern width to be adjusted from wide to narrow and the body of the sensor can be tilted to adjust pattern depth. The indicator LED is clearly visible with the cover on. An 8 position dip switch 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.

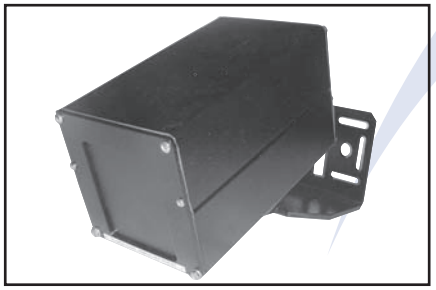
Technical Services

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.

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www.mssedco.com ■ custsvc@mssedco.com

ENGINEERED FOR MOTION

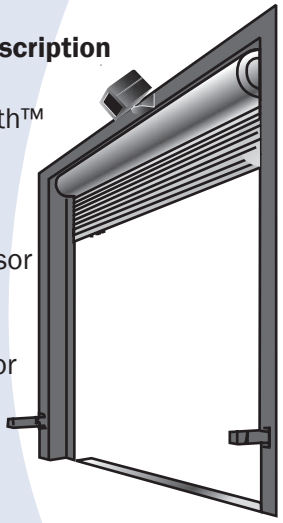
SafePath™ ID20
Long Range Industrial Microwave Motion Sensor



Product Name
SafePath™ ID20
Long Range Industrial Door Microwave Motion Sensor

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

Product Description



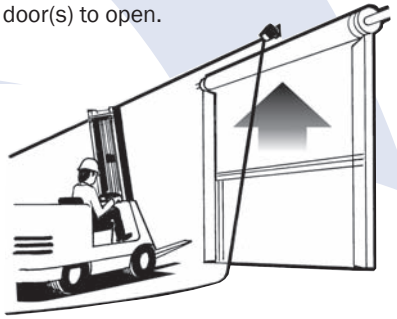
BASIC USE
The SafePath™ ID20 is a long range microwave motion sensor designed to provide activation for industrial doors.

Microwave technology allows the ID20 to only detect motion in one direction (approach-only or depart-only) resulting in more efficient and economical door operation. It is capable of detecting larger objects, such as fork trucks up to 60 ft. away. The ID20 can be mounted up to 20 ft. off the floor and has a maximum pattern size approximately 18 ft. wide at 60 ft. from the unit. The pattern is adjustable by turning a range potentiometer and aiming the unit. A speed selectable switch makes the ID20 capable of detecting pedestrians and/or vehicles.

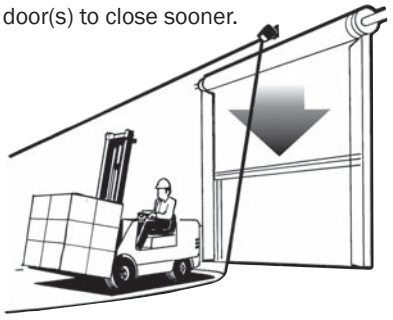
The ID20 is unaffected by air motion, temperature, humidity, color or background variations. It is less expensive to install than loop detectors and is not susceptible to damage or malfunction from ice, salt and heavy vehicular traffic.

Technical Data
- Hands-free door activation
- Replaces loop detectors
- Heavy-duty, weather-proof aluminum enclosure
- Easy to set-up and install
- Long range (up to 60 feet)
- Outdoor/indoor use
- Responds to motion in only one direction—approach only or depart only
- Mounts up to 20 ft. high
- Use Safety Beams or Safety Sensors Where Appropriate
- Hold-open time delay (0.5 to 5 seconds)

Approaching traffic enters the detection zone. The ID20 signals the door(s) to open.



Departing traffic clears the hold open beam. The ID20 ignores departing traffic entering its zone, allowing the door(s) to close sooner.



SafePath™ ID20
Long Range Industrial Microwave Motion Sensor

ENGINEERED FOR MOTION

SPECIFICATIONS

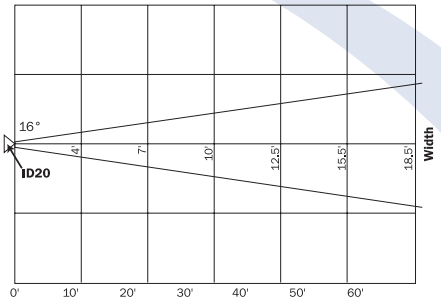
Model	ID20
Operating Frequency	10.525 GHz
Detection Method	Doppler Shift Microwave
Detection Pattern	Adjustable
Detection Angle	Adjustable
Directionality	Switch Selectable—Approach Only or Depart Only
Response Time	0.25 seconds
Speed Detection	Switch Selectable >1 mph or >3 mph
Hold Time	0.5 to 5 seconds, adjustable
Power	12V to 24V AC or DC
Current Consumption	0.10 amps
Relay Contacts	Form C, rated at 3 amps
Mounting	Heavy-duty metal bracket with lockset
Enclosure/Finish	Black powder coated aluminum
Temperature	-35°F to 165°F (-37°C to 74°C)
Physical Dimensions	4"H x 4"W x 7"D
Weight	4 lbs.

APPROVALS
FCC

Installation

SETUP AND ADJUSTMENT
The ID20 Industrial Door Sensor's pattern is adjustable by turning the range potentiometer mounted on the PC board and aiming the unit.

TYPICAL PATTERN DIAGRAM
Mounting Height: 12 ft.
Tip Angle: 16°



Pattern - Horizontal and Vertical

Detection pattern is approximately 18 feet wide by 60 feet deep.

(This detection pattern is 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 one year warranty is available from the manufacturer covering defects in materials and workmanship. Contact MS SEDCO for details.

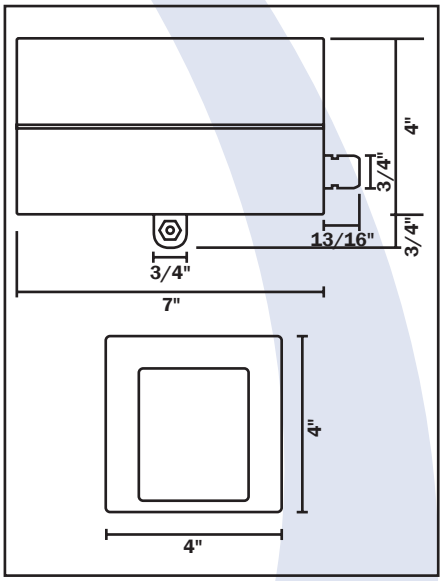
Maintenance

MS SEDCO recommends that all maintenance and adjustments be performed by a qualified 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.

DIMENSIONS

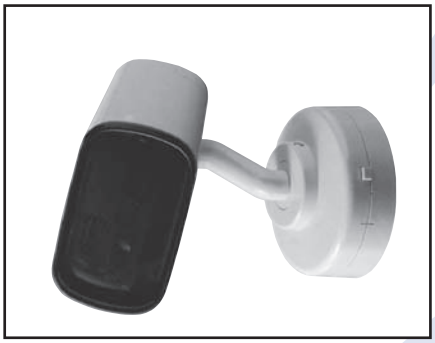


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www.mssedco.com ■ custsvc@mssedco.com

ENGINEERED FOR MOTION

SafePath™ DH17i
Industrial Door High-Mount Motion or Presence Sensor



Product Name
SafePath™ DH17i
featuring FRM-AI technology with Maximum Pattern Infrared™ (MPI™)

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

Product Description
BASIC USE
The SafePath™ DH17i is a 4-row motion or presence sensor designed for high mount industrial door applications between 10 feet (3m) and 20 feet (6m) high.

The DH17i 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 24 individual detection zones are precisely reflected off of the floor in a rectangular pattern for unparalleled performance.

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 DH17i was designed to replace in-ground loop detectors by providing identical features in an easy to install overhead mounted device. It can provide either motion or presence detection as far as 20 feet (6m) from the door thanks to a flexible housing that can adjust to a variety of applications. While the overall pattern size is determined by mounting height, the width and depth of the sensing pattern can be altered electronically. All adjustments are available without the use of proprietary set-up devices.

Technical Data
- Floor Reflection Method Active Infrared (FRM-AI) Technology
- 4 Presence Timer Settings Up To Infinity
- High Mount Applications Between 10 Ft. (3m) And 20 Ft. (6m)
- Up To 24 Detection Zones
- Electronic Pattern Adjustment
- 12 To 24V AC or DC Operation
- Replaces In-ground Loops
- Overhead Installation

SPECIFICATIONS
Model
DH17i
Detection Method
Floor Reflection Method Active Infrared (FRM-AI)
Installation Height
10 Feet (3m) to 20 Feet (6m)
Detection Area Adjustments
Pattern Width (Wide or Narrow)
Pattern Depth (3 or 4 Rows)
Angle Adjustment (70° left; 70° right; -30° to 120° in and out)
Detection Beams
6 Beams x 4 Rows = 24 Beams
Power Requirements
12V to 24V AC or DC ± 10%
Power Consumption
AC24V-2.8VA, AC12V-2.5VA DC24V-75mA, DC12V-150mA
Output Contact
Form C Relay: DC30V 2A (Resistor Load)
Output Holding Time
Approx. 0.5 Seconds
Presence Timer
2 seconds, 60 seconds, 10 minutes or Infinite Programmable Via Dip Switch
Operation Indication
Indicator LED: Monitoring=ON, Detection=OFF
Function Self-Diagnostic=Flash ON and OFF
High Reflection Monitor LED: Normal=OFF, High Reflection=ON
Enclosure Rating
IP54 (IEC60529)
Temperature Range
-4°F to 131°F (-20°C to 55°C)
Weight
Approx. 0.75 lbs. (380g)
Cover Color
Cream
Accessories
Cable: 5 ft. (1.5m)

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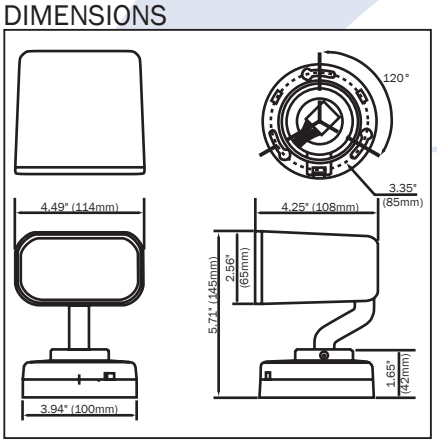
SafePath™ DH17i
Industrial Door High-Mount Motion or Presence Sensor

MPI MAXIMUM PATTERN INFRARED™

MS SEDCO

ENGINEERED FOR MOTION

DIMENSIONS



APPLICABLE STANDARDS
Enclosure Rating IP54 (IEC60529)

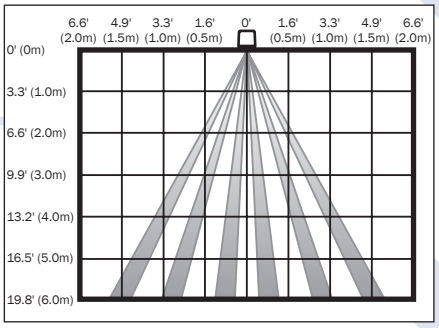
APPROVALS
CE

Installation

SETUP AND ADJUSTMENT

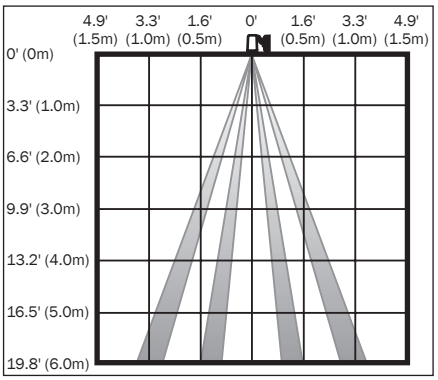
The DH17i installs easily. Simple amp connectors make wiring fast. A side lever allows pattern width to be adjusted from wide to narrow and the body of the sensor can be rotated to adjust pattern depth. The indicator LED is clearly visible with the cover on. An 8 position dip switch allows the installer to adjust the presence timer, pattern depth, frequency, monitoring modes.

COVERAGE PATTERN



Wide Pattern @ Maximum
10' (3m) Wide

Narrow Pattern & Maximum
5' (1.5m) Wide



Wide Pattern @ Maximum
6.6' (2m) Deep

Narrow Pattern @ Maximum
6.6' (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 one 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 a qualified 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.

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www.mssedco.com ■ custsvc@mssedco.com

ENGINEERED FOR MOTION

Sedco 59 Series
4 1/2" Square Push Plate Switches



#59-H (Blue Powder Coat with White Paint Filled Legend)



#59-P (Stainless Steel with Black Paint Filled Legend)



#59-HSS (Stainless Steel with Blue Paint Filled Legend)



#59-W (Blue Powder Coat with White Paint Filled Legend)



#59-WSS (Stainless Steel with Blue Paint Filled Legend)

NOT SHOWN

#59-Plain (Stainless Steel with No Legend)

Product Name

Sedco 59 Series

4 1/2" Square Push Plate Switches

Contact Information

MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

Product Description

BASIC USE

The 59 Series push plate switches are designed to provide reliable activation of any automatic door.

The 59 Series features 4" square face plates in either stainless steel or blue powder coated aluminum with etched and paint filled legends. A 4 1/2" square formed stainless steel back plate eliminates possible wall damage from standard use.

Designed as a universal switch, the 59 Series fit single-gang or 2-gang electrical boxes with no adapters necessary. A surface mount box is also available.

Each unit is built utilizing heavy gauge stainless steel, aircraft quality rivets and screws, durable finishes and the most reliable microswitch in the industry.

Technical Data

- 4" x 4" All Active Face Plate
- 4 1/2" x 4 1/2" Formed Stainless Steel Back Plate
- UL Listed "Cherry Switch", SPDT, Mom., 15 Amp @ 125V AC
- Rubber “Bellows” Increases Weather Protection (included)
- Fits single or 2-gang Electrical Box or MS SEDCO Surface Mount Box
- Special Finishes: US3, US4, US10, US10B, US32
- Radio Control Versions Available

ClearPath

ClearPath™ Radio Control Switches solve problems caused by interference and stray signals — and are guaranteed to work where others won't.

DIMENSIONS

See Reverse

APPLICABLE STANDARDS

American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.

APPROVALS

UL (Micro-Switch)

Installation

The 59 Series Switch is easy to install.

Hardwired Applications:

Mount to a standard single or 2-gang electrical box at the desired wall location. Remove the face plate from the switch assembly. Connect the necessary signal wires to the appropriate switch contacts (COM & N.O. are standard). Secure the switch assembly to the electrical box and reattach the face plate.

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Sedco 59 Series
4 1/2" Square
Push Plate Switches

ENGINEERED FOR MOTION

Installation (continued)

Wireless Applications:

Mount a ClearPath™ transmitter and surface mounting box in the desired location. Program the transmitter and connect the wire leads to the COM and N.O. switch contacts. Attach the wall switch assembly to the surface box and reattach the face plate.

Custom Applications:

The 59 Series Switches can be customized in a variety of ways. Virtually any legend can be placed on the face plate as well as custom colors or finishes. Contact the factory for pricing.

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

MS SEDCO, Inc. guarantees this product to be free from manufacturing defects for three years from date of installation. Unless MS SEDCO is notified of the date of installation, the warranty will be in effect for three years from the date of shipment from our factory. If, during the first three years, this product fails to operate and has not been tampered with or abused, the unit can be returned prepaid to the factory and be repaired free of charge. After three years, the unit will be repaired for a nominal service charge. **Limited warranty is in lieu of all other warranties, expressed or implied, including any implied warrantability of merchantability. No representative or person is authorized to assume for MS SEDCO any other liability in connection with the sale of our products. All warranties are limited to the duration of this written limited warranty. In no event shall MS SEDCO be liable for any special, incidental, consequential or other damage arising from any unclaimed breach of warranty as to its products or services.**

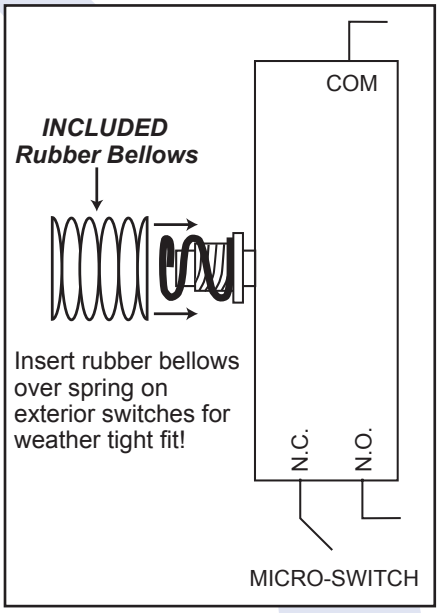
Maintenance

MS SEDCO recommends that all maintenance and adjustments be performed by an AAADM Certified Technician.

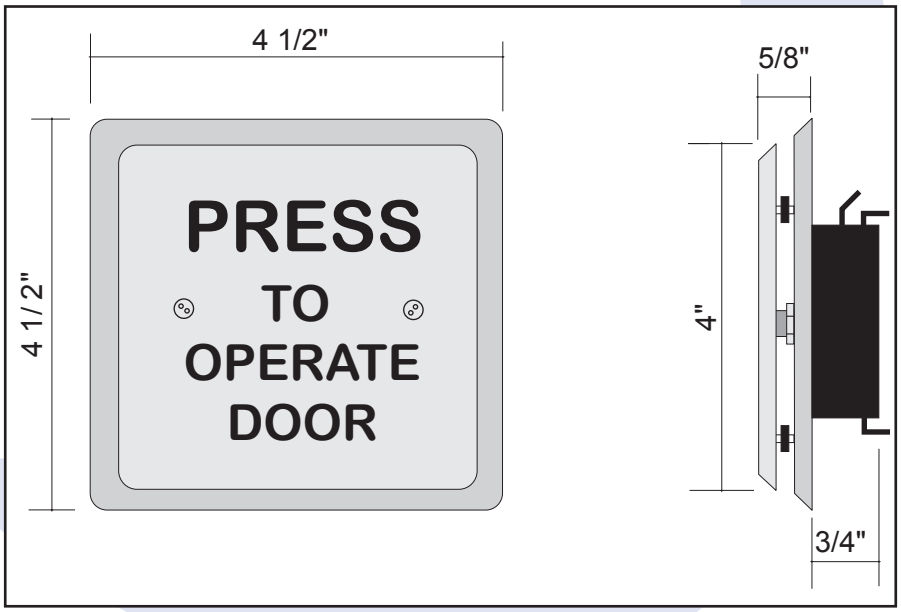
Technical Services

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.

BELLOWS DIAGRAM



DIMENSIONS



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www.mssedco.com ■ custsvc@mssedco.com

ENGINEERED FOR MOTION

Sedco 59R4 Series
4 1/2" Round Push Plate Switches



#59R4-H (Blue Powder Coat with White Paint Filled Legend)



#59R4-P (Stainless Steel with Black Paint Filled Legend)



#59R4-HSS (Stainless Steel with Blue Paint Filled Legend)

NOT SHOWN

#59R4-W (Blue Powder Coat with White Wheelchair)

#59R4-WSS (Stainless Steel with Blue Wheelchair)

#59R4-Plain (Stainless Steel with No Legend)

Product Name

Sedco 59R4 Series

4 1/2" Round Push Plate Switches

Contact Information

MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

Product Description

BASIC USE

The 59R4 Series push plate switches are designed to provide reliable activation of any automatic door.

The 59R4 Series features 4" round face plates in either stainless steel or blue powder coated aluminum with etched and paint filled legends. A 4 1/2" diameter formed stainless steel back plate eliminates possible wall damage from standard use.

Designed as a universal switch, the 59R4 Series fits single-gang electrical boxes with no adapters necessary. A surface mount box is also available.

Each unit is built utilizing heavy gauge stainless steel, aircraft quality rivets and screws, durable finishes and the most reliable microswitch in the industry.

Technical Data

- 4" Round All Active Face Plate
- 4 1/2" Diameter Formed Stainless Steel Back Plate
- UL Listed "Cherry Switch", SPDT, Mom. , 15 Amp @ 125V AC
- Rubber "Bellows" Increases Weather Protection (included)
- Fits Single-gang Electrical Box or MS SEDCO Surface Mount Box
- Radio Control Versions Available

ClearPath

ClearPath™ Radio Control Switches solve problems caused by interference and stray signals — and are guaranteed to work where others won't.

DIMENSIONS

See Reverse

APPLICABLE STANDARDS

American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.

APPROVALS

UL (Micro-Switch)

Installation

The 59R4 Series Switch is easy to install.

Hardwired Applications:

Mount to a standard single-gang electrical box at the desired wall location. Remove the face plate from the switch assembly. Connect the necessary signal wires to the appropriate switch contacts (COM & N.O. are standard). Secure the switch assembly to the electrical box and reattach the face plate.

Sedco 59R4 Series
4 1/2" Round
Push Plate Switches

ENGINEERED FOR MOTION

Installation (continued)
Wireless Applications:
Mount a ClearPath™ transmitter and surface mounting box in the desired location. Program the transmitter and connect the wire leads to the COM and N.O. switch contacts. Attach the wall switch assembly to the surface box and reattach the face plate.

Custom Applications:
The 59R4 Series Switches can be customized in a variety of ways. Virtually any legend can be placed on the face plate as well as custom colors or finishes. Contact the factory for pricing.

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

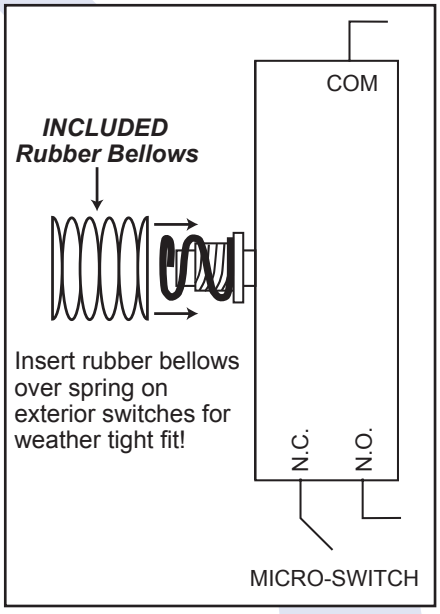
COST
Cost information on MS SEDCO products is available from the manufacturer's authorized distributors.

Warranty
MS SEDCO, Inc. guarantees this product to be free from manufacturing defects for three years from date of installation. Unless MS SEDCO is notified of the date of installation, the warranty will be in effect for three years from the date of shipment from our factory If, during the first three years, this product fails to operate and has not been tampered with or abused, the unit can be returned prepaid to the factory and be repaired free of charge. After three years, the unit will be repaired for a nominal **service charge. Limited warranty is in lieu of all other warranties, expressed or implied, including any implied warrantability of merchantability. No representative or person is authorized to assume for MS SEDCO any other liability in connection with the sale of our products. All warranties are limited to the duration of this written limited warranty. In no event shall MS SEDCO be liable for any special, incidental, consequential or other damage arising from any unclaimed breach of warranty as to its products or services.**

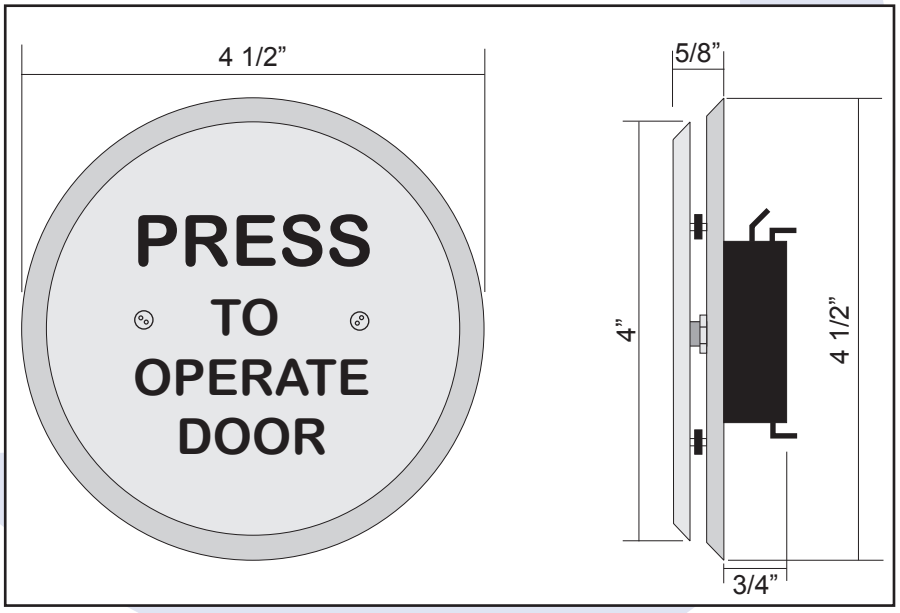
Maintenance
MS SEDCO recommends that all maintenance and adjustments be performed by an AAADM Certified Technician.

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.

BELLOWS DIAGRAM



DIMENSIONS



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www.mssedco.com ■ custsvc@mssedco.com

ENGINEERED FOR MOTION

Sedco 59R6 Series
6" Round
Push Plate Switches



#59R6-H (Blue Powder Coat with White Paint Filled Legend)



#59R6-P (Stainless Steel with Black Paint Filled Legend)



#59R6-HSS (Stainless Steel with Blue Paint Filled Legend)

NOT SHOWN

#59R6-W (Blue Powder Coat with White Wheelchair)

#59R6-WSS (Stainless Steel with Blue Wheelchair)

#59R6-Plain (Stainless Steel with No Legend)

Product Name

Sedco 59R6 Series

6" Round Push Plate Switches

Contact Information

MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

Product Description

BASIC USE

The 59R6 Series push plate switches are designed to provide reliable activation of any automatic door.

The 59R6 Series features 5 1/2" round face plates in either stainless steel or blue powder coated aluminum with etched and paint filled legends. A 6" diameter formed stainless steel back plate eliminates possible wall damage from standard use.

Designed as a universal switch, the 59R6 Series fit single-gang or 2-gang electrical boxes with no adapters necessary. A surface mount box is also available.

Each unit is built utilizing heavy gauge stainless steel, aircraft quality rivets and screws, durable finishes and the most reliable microswitch in the industry.

Technical Data

- 5 1/2" Round All Active Face Plate
- 6" Diameter Formed Stainless Steel Back Plate
- UL Listed "Cherry Switch", SPDT, Mom. , 15 Amp @ 125V AC
- Rubber "Bellows" Increases Weather Protection (included)
- Fits Single or 2-gang Electrical Box or MS SEDCO Surface Mount Box
- Radio Control Versions Available

ClearPath

ClearPath™ Radio Control Switches solve problems caused by interference and stray signals — and are guaranteed to work where others won't.

DIMENSIONS

See Reverse

APPLICABLE STANDARDS

American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.

APPROVALS

UL (Micro-Switch)

Installation

The 59R6 Series Switch is easy to install.

Hardwired Applications:

Mount to a standard single or 2-gang electrical box at the desired wall location. Remove the face plate from the switch assembly. Connect the necessary signal wires to the appropriate switch contacts (COM & N.O. are standard). Secure the switch assembly to the electrical box and reattach the face plate.

Sedco 59R6 Series
6" Round
Push Plate Switches

ENGINEERED FOR MOTION

Installation (continued)
Wireless Applications:
Mount a ClearPath™ transmitter and surface mounting box in the desired location. Program the transmitter and connect the wire leads to the COM and N.O. switch contacts. Attach the wall switch assembly to the surface box and reattach the face plate.

Custom Applications:
The 59R6 Series Switches can be customized in a variety of ways. Virtually any legend can be placed on the face plate as well as custom colors or finishes. Contact the factory for pricing.

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

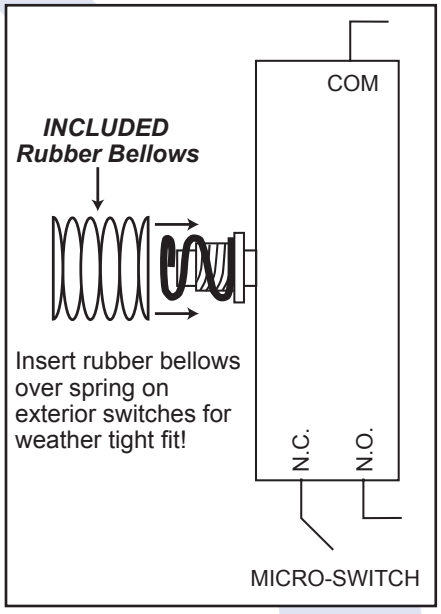
COST
Cost information on MS SEDCO products is available from the manufacturer's authorized distributors.

Warranty
MS SEDCO, Inc. guarantees this product to be free from manufacturing defects for three years from date of installation. Unless MS SEDCO is notified of the date of installation, the warranty will be in effect for three years from the date of shipment from our factory If, during the first three years, this product fails to operate and has not been tampered with or abused, the unit can be returned prepaid to the factory and be repaired free of charge. After three years, the unit will be repaired for a nominal **service charge. Limited warranty is in lieu of all other warranties, expressed or implied, including any implied warrantability of merchantability. No representative or person is authorized to assume for MS SEDCO any other liability in connection with the sale of our products. All warranties are limited to the duration of this written limited warranty. In no event shall MS SEDCO be liable for any special, incidental, consequential or other damage arising from any unclaimed breach of warranty as to its products or services.**

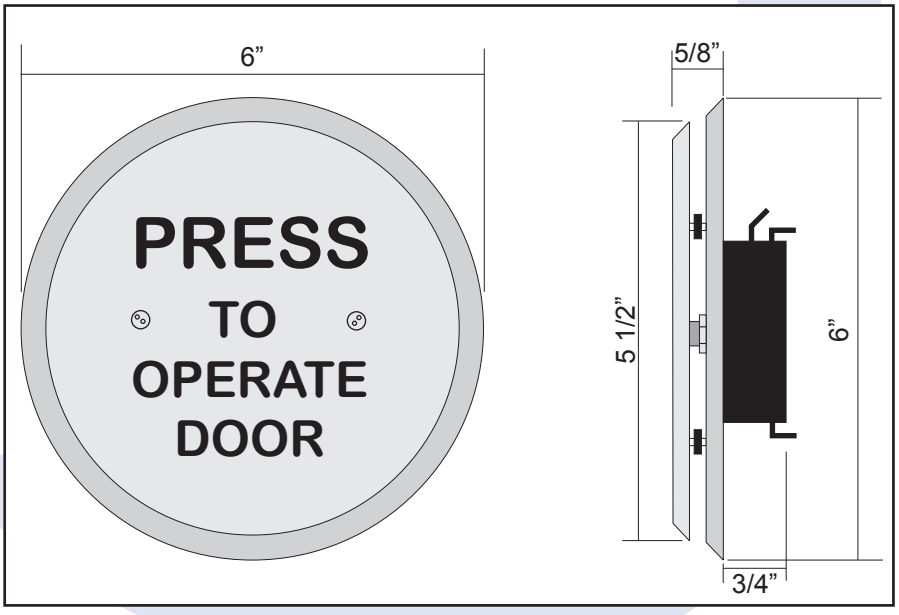
Maintenance
MS SEDCO recommends that all maintenance and adjustments be performed by an AAADM Certified Technician.

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.

BELLOWS DIAGRAM



DIMENSIONS



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ENGINEERED FOR MOTION

Sedco 59J Series
Jamb Style
Push Plate Switches



#59J-H (Blue Powder Coat with White Paint Filled Legend)



#59J-P (Stainless Steel with Black Paint Filled Legend)



#59J-HSS (Stainless Steel with Blue Paint Filled Legend)



#59J-W (Blue Powder Coat with White Paint Filled Legend)



#59J-WSS (Stainless Steel with Blue Paint Filled Legend)

NOT SHOWN

#59J-Plain (Stainless Steel with No Legend)

Product Name

Sedco 59J Series

Jamb Style Push Plate Switches

Contact Information

MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

Product Description

BASIC USE

The 59J Series jamb style switches are designed to provide reliable, unobtrusive activation of any automatic door.

The 59J Series features 1 1/2" x 4 1/4" face plates in either stainless steel or blue powder coated aluminum with etched and paint filled legends. A formed stainless steel back plate eliminates possible wall damage from standard use.

Mount the 59J Series directly onto the jamb of an automatic door (fits a 1 3/4" frame) or in MS SEDCO's optional surface mount box.

Each unit is built utilizing heavy gauge stainless steel, aircraft quality rivets and screws, durable finishes and the most reliable microswitch in the industry.

Technical Data

- 1 1/2" x 4 1/4" All Active Face Plate
- 1 11/16" x 4 1/2" Formed Stainless Steel Back Plate
- UL Listed "Cherry Switch", SPDT, Mom. , 15 Amp @ 125V AC
- Rubber "Bellows" Increases Weather Protection (included)
- Fits 1 3/4" Frame or MS SEDCO Surface Mount Box
- Special Finishes: US3, US4, US10, US10B, US32
- Radio Control Versions Available

ClearPath

ClearPath™ Radio Control Switches solve problems caused by interference and stray signals — and are guaranteed to work where others won't.

DIMENSIONS

See Reverse

APPLICABLE STANDARDS

American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.

APPROVALS

UL (Micro-Switch)

Installation

The 59J Series Jamb Style Switch is easy to install.

Hardwired Applications:

Using the mounting template provided, make cutout in the door frame. Remove the face plate from the switch assembly. Connect the necessary signal wires to the appropriate switch contacts (COM & N.O. are standard). Secure the switch assembly to the door frame and reattach the face plate.

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Sedco 59J Series
Jamb Style
Push Plate Switches

ENGINEERED FOR MOTION

Installation (continued)

Wireless Applications:

Mount a ClearPath™ transmitter and surface mounting box in the desired location. Program the transmitter and connect the wire leads to the COM and N.O. switch contacts. Attach the wall switch assembly to the surface box and reattach the face plate.

Custom Applications:

The 59J Series Jamb Switches can be customized in a variety of ways. Virtually any legend can be placed on the face plate as well as custom colors or finishes. Contact the factory for pricing.

Availability & Cost

AVAILABILITY

Available internationally from manufacturer's authorized distributors; contact MS SEDCO for location of nearest distributor.

COST

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

Warranty

MS SEDCO, Inc. guarantees this product to be free from manufacturing defects for three years from date of installation. Unless MS SEDCO is notified of the date of installation, the warranty will be in effect for three years from the date of shipment from our factory If, during the first three years, this product fails to operate and has not been tampered with or abused, the unit can be returned prepaid to the factory and be repaired free of charge. After three years, the unit will be repaired for a nominal **service charge. Limited warranty is in lieu of all other warranties, expressed or implied, including any implied warrantability of merchantability. No representative or person is authorized to assume for MS SEDCO any other liability in connection with the sale of our products. All warranties are limited to the duration of this written limited warranty. In no event shall MS SEDCO be liable for any special, incidental, consequential or other damage arising from any unclaimed breach of warranty as to its products or services.**

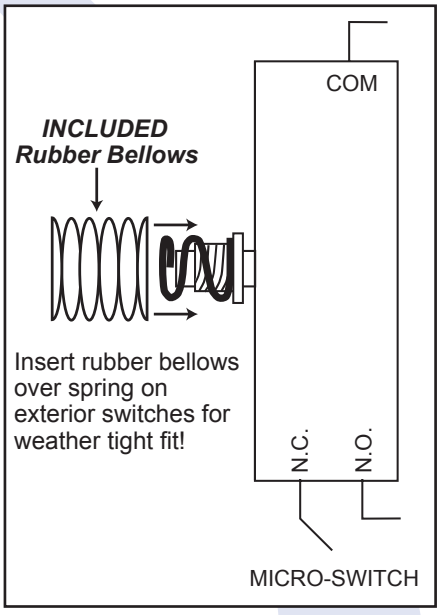
Maintenance

MS SEDCO recommends that all maintenance and adjustments be performed by an AAADM Certified Technician.

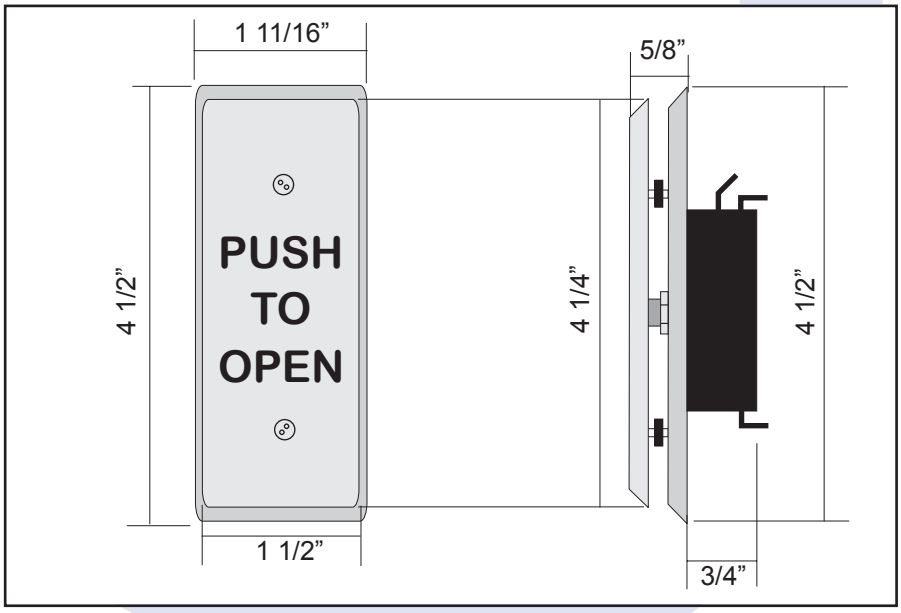
Technical Services

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.

BELLOWS DIAGRAM



DIMENSIONS

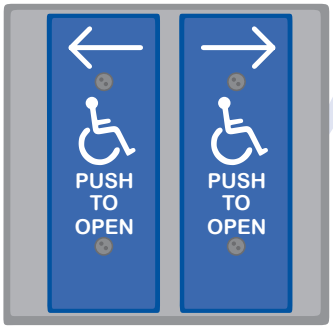


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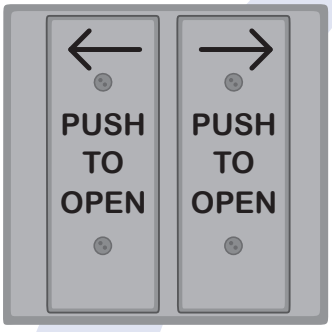
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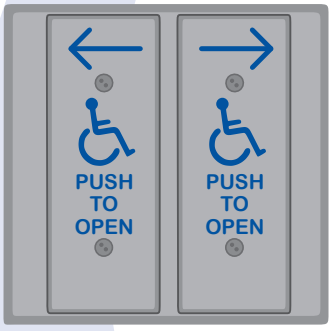
Sedco 59V Series
Vestibule
Push Plate Switches



#59V-H (Blue Powder Coat with White Paint Filled Legend)



#59V-P (Stainless Steel with Black Paint Filled Legend)



#59V-HSS (Stainless Steel with Blue Paint Filled Legend)

NOT SHOWN

#59V-W (Blue Powder Coat with White Wheelchair)

#59V-WSS (Stainless Steel with Blue Wheelchair)

#59V-Plain (Stainless Steel with No Legend)

Product Name
Sedco 59V Series
Vestibule Push Plate Switches

Contact Information
MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

Product Description
BASIC USE
The 59V Series vestibule push plate switches are designed to provide reliable activation of any pair of automatic doors from inside a building vestibule.

The 59V Series vestibule switches feature two separate face plates that will allow for independent activation of two automatic doors. Both face plates are integrated onto a single 4 1/2" x 4 1/2" formed stainless steel back plate that will fit a 2-gang electrical box or MS SEDCO's optional surface mount box.

Each unit is built utilizing heavy gauge stainless steel, aircraft quality rivets and screws, durable finishes and the most reliable microswitch in the industry.

Technical Data
- 2—1 1/2" x 4 1/4" All Active Face Plates
- 4 1/2" x 4 1/2" Formed Stainless Steel Back Plate
- 2—UL Listed "Cherry Switch", SPDT, Mom. , 15 Amp @ 125V AC
- Rubber "Bellows" Increases Weather Protection (included)
- Fits 2-gang Electrical Box or MS SEDCO Surface Mount Box
- Special Finishes: US3, US4, US10, US10B, US32
- Radio Control Versions Available

ClearPath

ClearPath™ Radio Control Switches solve problems caused by interference and stray signals — and are guaranteed to work where others won't.

DIMENSIONS
See Reverse

APPLICABLE STANDARDS
American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.

APPROVALS
UL (Micro-Switch)

Installation
The 59V Series Vestibule Switch is easy to install.

Hardwired Applications:
Mount a standard 2-gang electrical box at the desired wall location. Remove both face plates from the switch assembly. Connect the necessary signal wires to the appropriate switch contacts (COM & N.O. are standard). Secure the switch assembly to the door frame and reattach the face plates.

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Sedco 59V Series
Vestibule
Push Plate Switches

ENGINEERED FOR MOTION

Installation (continued)
Wireless Applications:
Mount a ClearPath™ transmitter and surface mounting box in the desired location. Program the transmitter and connect the wire leads to the COM and N.O. switch contacts. Attach the wall switch assembly to the surface box and reattach the face plate.

Custom Applications:
The 59V Series Vestibule Switches can be customized in a variety of ways. Virtually any legend can be placed on the face plate as well as custom colors or finishes. Contact the factory for pricing.

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

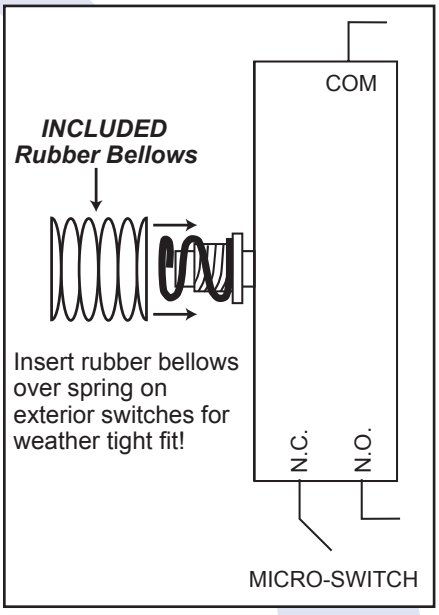
COST
Cost information on MS SEDCO products is available from the manufacturer's authorized distributors.

Warranty
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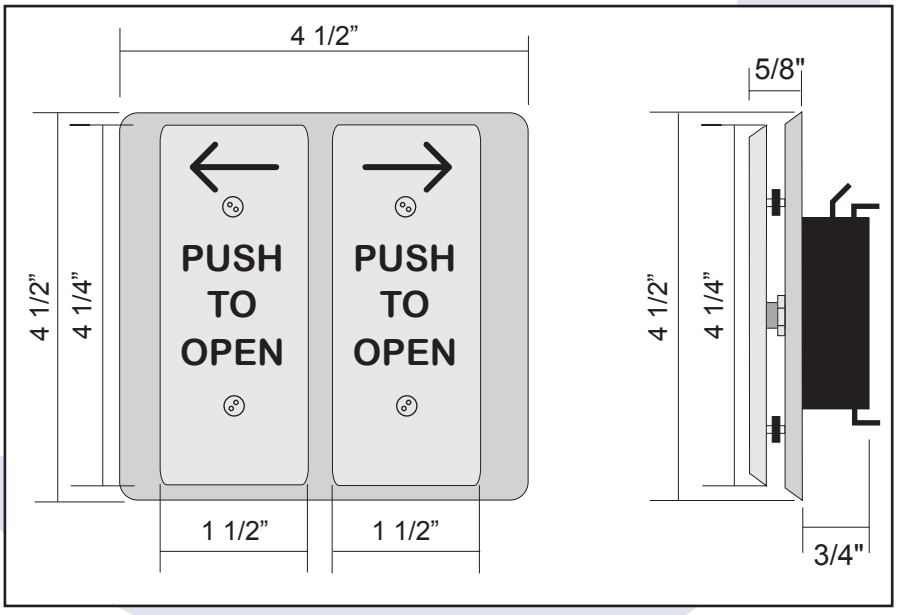
Maintenance
MS SEDCO recommends that all maintenance and adjustments be performed by an AAADM Certified Technician.

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.

BELLOWS DIAGRAM



DIMENSIONS



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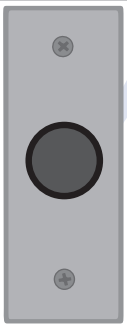
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www.mssedco.com ■ custsvc@mssedco.com

ENGINEERED FOR MOTION

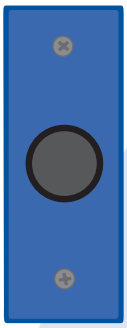
425 Series
Jamb Style
Push Plate Switches



#425B-BLK (Blue Powder Coat Face Plate, Black Button Switch)



#425SS-BLK (Stainless Steel Face Plate, Black Button Switch)



#425B-RED (Blue Powder Coat Face Plate, Red Button Switch)



#425SS-RED (Stainless Steel Face Plate, Red Button Switch)





1½" Self-Sticking Mylar Face Plate Decal (Blue Background/White Legend)

Product Name
425 Series
Jamb Style Push Plate Switches

Contact Information
MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

Product Description
BASIC USE
The 425 Series jamb style switches are designed to provide reliable, unobtrusive activation of any automatic door.

The 425 Series features 1 11/16" x 4 1/2" face plates in either stainless steel or blue powder coated aluminum. They include self-sticking mylar labels for customizing the face plate.

Mount the 425 Series directly onto the jamb of an automatic door (fits a 1 3/4" frame) or in MS SEDCO's optional surface mount box.

Each unit is built utilizing heavy gauge metals, aircraft quality rivets and screws, durable finishes and the most reliable microswitch in the industry.

Technical Data
- 1 11/16" x 4 1/2" Face Plates in Stainless Steel or Blue Powder Coated Aluminum
- 1" Diameter Button Switch (Black or Red)
- UL Listed Micro Switch, SPDT, Mom., 15 Amp @ 125V AC
- Fits 1 3/4" Frame or MS SEDCO #1106 Surface Mounting Box
- Includes Self-Sticking Mylar Face Plate Labels

DIMENSIONS
See Reverse

APPLICABLE STANDARDS
American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.

APPROVALS
UL (Micro-Switch)

Installation
The 425 Series Jamb Style Button Switch is easy to install.

Using the mounting template provided, make cutout in the door frame. Connect the necessary signal wires to the appropriate switch contacts (COM and N.O. are standard). Secure the switch assembly to the door frame and attach the face plate. Apply desired face plate label.

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

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www.mssedco.com ■ custsvc@mssedco.com

ENGINEERED FOR MOTION

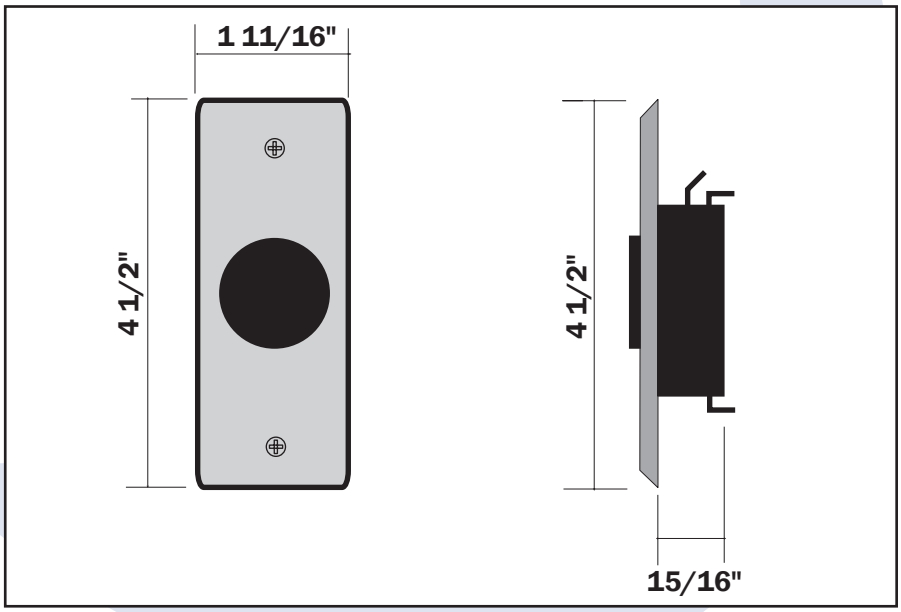
COST
Cost information on MS SEDCO products is available from the manufacturer's authorized distributors.

Warranty
MS SEDCO, Inc. guarantees this product to be free from manufacturing defects for one year from date of installation. Unless MS SEDCO is notified of the date of installation, the warranty will be in effect for one year from the date of shipment from our factory. If, during the first year, this product fails to operate and has not been tampered with or abused, the unit can be returned prepaid to the factory and be repaired free of charge. After one year, the unit will be repaired for a nominal service charge. **Limited warranty is in lieu of all other warranties, expressed or implied, including any implied warrantability of merchantability. No representative or person is authorized to assume for MS SEDCO any other liability in connection with the sale of our products. All warranties are limited to the duration of this written limited warranty. In no event shall MS SEDCO be liable for any special, incidental, consequential or other damage arising from any unclaimed breach of warranty as to its products or services.**

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.

DIMENSIONS



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ENGINEERED FOR MOTION

1078 Series
4 1/2" Square Low Profile Push Plate Switches



#1078-H (Anodized Blue Aluminum Face Plate with Engraved Legend)



#1078-P (Anodized Black Aluminum Face Plate with Engraved Legend)

Product Name
1078 Series
4 1/2" Square Low Profile Push Plate Switches

Contact Information
MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

Product Description
BASIC USE
The 1078 Series low profile push plate switches are designed to provide reliable activation of any automatic door.

The 1078 Series features a 4 1/2" square formed stainless steel back plate with a 2" x 3" active face plate mounted flush within the backplate. Designed to be low profile, the 1078 projects only 1/4" from the wall. They fit a 2-gang electrical box with no adapter necessary. A surface mount box is also available.

Each unit is built utilizing heavy gauge stainless steel, aircraft quality screws, durable finishes and the most reliable microswitch in the industry.

Technical Data
- 2" x 3" All Active Face Plate
- 4 1/2" x 4 1/2" Formed Stainless Steel Back Plate
- 1/4" Projection From Wall
- UL Listed "Cherry Switch", SPDT, Mom., 15 Amp @ 125V AC
- Fits 2-gang Electrical Box or MS SEDCO #1015 Surface Mount Box
- Radio Control Versions Available

ClearPath™

ClearPath™ Radio Control Switches with HDRC™ solve problems caused by interference and stray signals — and are guaranteed to work where others won't.

DIMENSIONS
See Reverse

APPLICABLE STANDARDS
American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.

APPROVALS
UL (Micro-Switch)

Installation
The 1078 Series low profile switch is easy to install.

Hardwired Applications:
Mount a standard 2-gang electrical box at the desired location. Connect the necessary signal wires to the appropriate switch contacts (COM and N.O. are standard). Secure the switch to the electrical box.

Wireless Applications:
Mount a ClearPath™ transmitter and surface mount box in the desired location. Program the desired security code and connect the transmitter wire leads to the COM and N.O. switch contacts. Attach the switch to the surface box.

Custom Applications:
The 1078 Series Switch can be customized in a variety of ways. Virtually any legend can be placed on the face plate as well as custom colors or finishes. Contact the factory for pricing.

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

1078 Series
4 1/2" Square Low Profile Push Plate Switches

ENGINEERED FOR MOTION

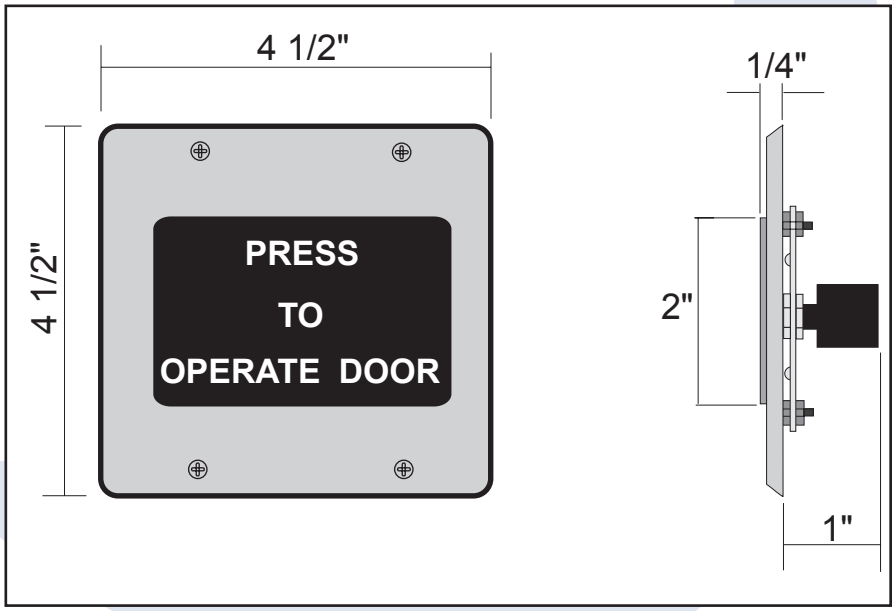
COST
Cost information on MS SEDCO products is available from the manufacturer's authorized distributors.

Warranty
MS SEDCO, Inc. guarantees this product to be free from manufacturing defects for three years from date of installation. Unless MS SEDCO is notified of the date of installation, the warranty will be in effect for three years from the date of shipment from our factory. If, during the first three years, this product fails to operate and has not been tampered with or abused, the unit can be returned prepaid to the factory and be repaired free of charge. After three years, the unit will be repaired for a nominal service charge. **Limited warranty is in lieu of all other warranties, expressed or implied, including any implied warrantability of merchantability, no representative or person is authorized to assume for MS SEDCO any other liability in connection with the sale of our products. All warranties are limited to the duration of this written limited warranty. In no event shall MS SEDCO be liable for any special, incidental, consequential or other damage arising from any unclaimed breach of warranty as to its products or services.**

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.

DIMENSIONS



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ENGINEERED FOR MOTION

216 Series
Infrared "Touchless" Door Activator Switches



#216



#216-L



#216-N

1½" Self-Sticking Mylar Face Plate Decal (Blue Background/ White Legend)

Product Name
216 Series
Infrared "Touchless" Door Activator Switches

Contact Information
MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

Product Description

BASIC USE

The 216 Series touchless switches are active infrared devices designed to activate full and low energy automatic doors.

Their hands free operation makes them ideal for ADA applications. Other applications include clean-room access points, request-to-exit devices (3 amp contact) and point-of-purchase displays. The 216 is microprocessor controlled allowing for superior operation in a smaller unit.

The 216 Series faceplates are available in three sizes.

Technical Data

- ADA Compliant Hands-Free Operation
- Faceplates Available in 3 Sizes and Various Finishes
- Microprocessor-Controlled Active Infrared
- Automatic Self-Changing ID Coding Eliminates Possible Electrical Interference
- Adjustable Reaction Time (0.05-1 Sec.)
- Digital Circuit Design
- 12 to 24V AC or DC Operation
- Form C Relay Output
- Heavy Duty 3 Amp Contact
- Selectable Failsafe
- Multiple Operating Modes

SPECIFICATIONS

Detection Method
Amplitude modulated, coded carrier active infrared

Frequency Codes
Automatic self-changing

Avg. Radiated Power
Less than 18mW

Input Voltage
12V to 24V AC or DC, not polarity sensitive

Input Current
Approx. 100mA @ 18V AC

Relay Contacts
Form C rated at 3 amps @ 24V DC (resistive)

Relay Operation Modes
Normal or "fail-safe" (jumper selectable)

Response Time
Less than 0.3 seconds

Reaction Time
Adjustable from 0.05 to 1 sec.

Operating Distance
6 in. to 2.5 ft.

Unit Size
1 5/16"W x 4"H x 1 1/4"D

Mounting Options
Single-gang, 2-gang or door jamb mount

Face Plate Sizes
Fits Single-gang or 2-gang Box (216)
4 1/2"W x 4 1/2"H
Fits Single-gang Box (216-L)
2 3/4"W x 4 1/2"H
Fits Door Jamb (216-N)
1 11/16"W x 4 1/2"H

Face Plate Finish
Standard: Brushed Stainless Steel
For Special Finishes Contact Factory

Temperature
-13°F to 140°F (-25°C to 60°C)
Recommended For Interior Use

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216 Series
Infrared "Touchless" Door Activator Switches

ENGINEERED FOR MOTION

APPLICABLE STANDARDS
American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.

Installation
Refer to MS SEDCO Installation Instructions.

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

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

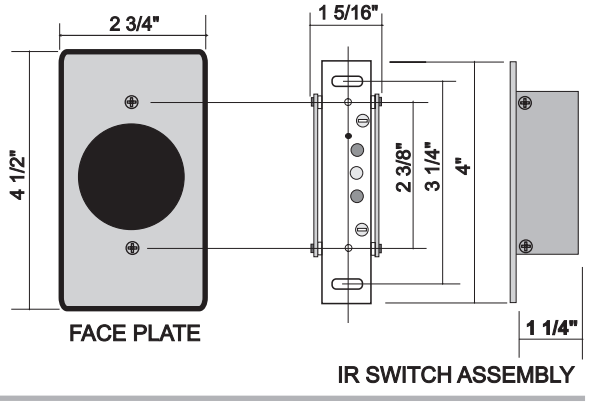
Warranty
A one year warranty is available from the manufacturer covering defects in materials and workmanship. Contact MS SEDCO for details.

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

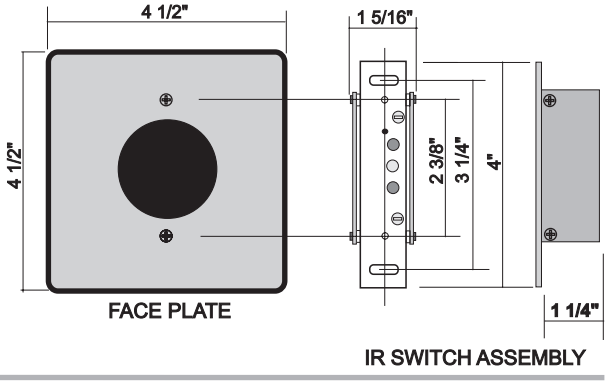
DIMENSIONS

216-L (Single-Gang)

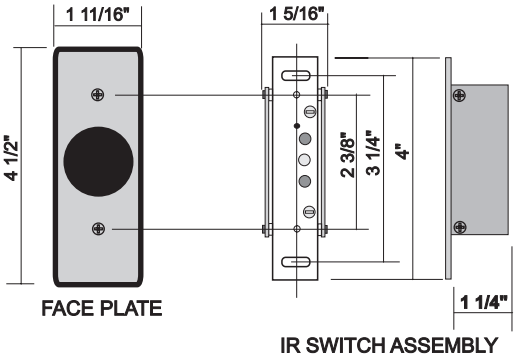


216 (Single-Gang, 2-Gang or Junction Box)

(Adaptor Ring Included)



216-N (Door Jamb Mount)



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216-RK Series Retrofit Kit for Converting Mechanical Actuators to Touchless

Engineered for Motion



216-RK Module

Product Name

216-RK Series Retrofit Kit

for Converting Mechanical Actuators to Touchless

Contact Information

MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

Product Description

BASIC USE

The 216-RK Series Retrofit Kit is an easy, inexpensive way to upgrade existing hardwired mechanical actuators to touch-free (and therefore germ-free) switches.

Upgrading standard automatic door actuators to touchless switches has traditionally been an arduous process. Past touchless switches have required four wires – two for power and two for activation, while mechanical switches only require two activation wires. Therefore, upgrading to touchless switches has required costly wire runs. The 216-RK makes the conversion simple and inexpensive!

The 216-RK contains a new version of the 216 touchless switch designed to operate off of two wires only, and a module placed in the header. Two switches (one of each side of the door) wire to this module, along with a power source (12-24 V AC or DC) and an activation output.

The switches included with the kit incorporate a new feature which is coming soon to standard hardwired 216 series switches – adjustable reaction time. Reaction time is defined as the time from when someone places a hand in front of the switch until it sends its output. 216-RK switches will ship with the fastest reaction time setting, which is 0.05 seconds and noticeably quicker than the current 216. If the switch is placed in a crowded space where inadvertent activations are a concern, reaction time can be increased, requiring users to hold their hands in front of the switch for a longer time for activation to occur.

Technical Data

- ADA Compliant Hands-Free Operation
- Faceplates Available in 3 Sizes and Various Finishes
- Microprocessor-Controlled Active Infrared
- Automatic Self-Changing ID Coding Eliminates Possible Electrical Interference
- Adjustable Reaction-Time (0.05-1 Sec.)
- Digital Circuit Design
- 12 to 24V AC or DC Operation
- Form C Relay Output
- Heavy Duty 3 Amp Contact
- Selectable Failsafe
- Multiple Operating Modes



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216-RK Series Retrofit Kit for Converting Mechanical Actuators to Touchless

ENGINEERED FOR MOTION

Detection Method	Amplitude modulated, coded carrier active infrared
Frequency Codes	Automatic self-changing
Avg. Radiated Power	Less than 18mW
Input Voltage	12V to 24V AC or DC, not polarity sensitive
Input Current	Approx. 100mA @ 18V AC
Relay Contacts	Form C rated at 3 amps @ 24V DC (resistive)
Current Draw	100mA at 24V
Relay Operation Modes	Normal or "fail-safe" (jumper selectable)
Reaction Time	Adjustable from 0.05 to 1 sec.
Operating Distance	6 in. to 2.5 ft.
Unit Size	1 5/16"W x 4"H x 1 1/4"D
Mounting Options	Single-gang, 2-gang or door jamb mount
Face Plate Sizes	Fits Single-gang or 2-gang Box (216) 4 1/2"W x 4 1/2"H Fits Single-gang Box (216-L) 2 3/4"W x 4 1/2"H Fits Door Jamb (216-N) 1 11/16"W x 4 1/2"H
Face Plate Finish	Standard: Brushed Stainless Steel For Special Finishes Contact Factory
Temperature	-13°F to 140°F (-25°C to 60°C) *Recommended For Interior Use*

APPLICABLE STANDARDS

American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.

Installation

Refer to MS SEDCO Installation Instructions.

Availability & Cost

AVAILABILITY

Available internationally from manufacturer's authorized distributors; contact MS SEDCO for the location of the nearest distributor.

COST

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

Warranty

A one 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

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ENGINEERED FOR MOTION

216TX Series
Infrared Wireless Touchless Door Activator Switches



216TX-TG

Product Name

216TX Series

Infrared Wireless Touchless Door Activator Switches

Contact Information

MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

Product Description

BASIC USE

The 216TX Series wireless touchless switches are infrared devices designed to activate full and low energy automatic doors. The built-in wireless transmitter offers the added benefit of easy installation, requiring no wiring to the switch.

The hands free operation of the 216TX makes them ideal for ADA applications and locations where hygiene is important such as restrooms, health care facilities or cleanrooms. The 216TX is microprocessor controlled, allowing for superior operation in a smaller unit.

The 216TX has a 4 1/2" stainless steel faceplate and comes installed in the 1020 box complete with a transmitter.

Technical Data

- ADA Compliant Hands-Free, Germ-Free Operation
- Microprocessor-Controlled Active Infrared
- Digital Circuit Design
- Wireless Transmitter Features ClearPath™ Technology With Three User-selectable Frequency Settings (300 MHz, 390 MHz, HDRC™)
- FCC Licenses For All Three Frequency Settings
- SignalLock™ Guarantees Signal Transmission When Presence Is Detected
- Integrated Signal Radiating Antenna Boosts Signal Strength
- Compatible With Most 300 MHz, 390 MHz, and ClearPath™ CP/TX Receivers

SPECIFICATIONS

Detection Method	Amplitude modulated, coded carrier active infrared
Avg. Radiated Power	Less than 5 mW/cm²
Input Voltage	216: 3.3 Volts DC Coin Cell Battery (CR2032) TX: 9 Volt DC Battery
Response Time	<300 mSeconds
Operating Distance	±1 - 5 inches
Unit Size	4 3/4"W x 4 3/4"H x 2 1/4"D
Mounting Options	Includes wall mount box
Face Plate Sizes	4 1/2" square
Face Plate Finishes	Standard: Brushed Stainless Steel For Special Finishes & Legends, Contact Factory
Temperature	-4°F to 140°F (-20°C to 60°C)

APPLICABLE STANDARDS

American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.

Installation

Refer to MS SEDCO Installation Instructions.

Availability & Cost

AVAILABILITY

Available internationally from manufacturer's authorized distributors; contact MS SEDCO for the location of the nearest distributor.

COST

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

Warranty

A one 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

216TX Series
Infrared Wireless Touchless Door Activator Switches

ENGINEERED FOR MOTION

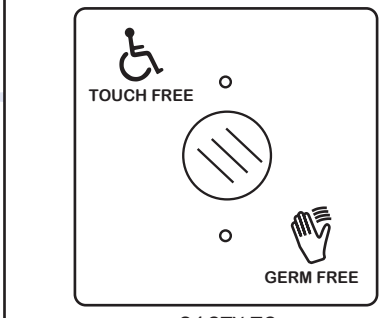
Maintenance

MS SEDCO recommends that all maintenance and adjustments be performed by an AAADM Certified Technician.

Technical Services

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AVAILABLE FACE PLATES



216TX-TG



216TX-HT

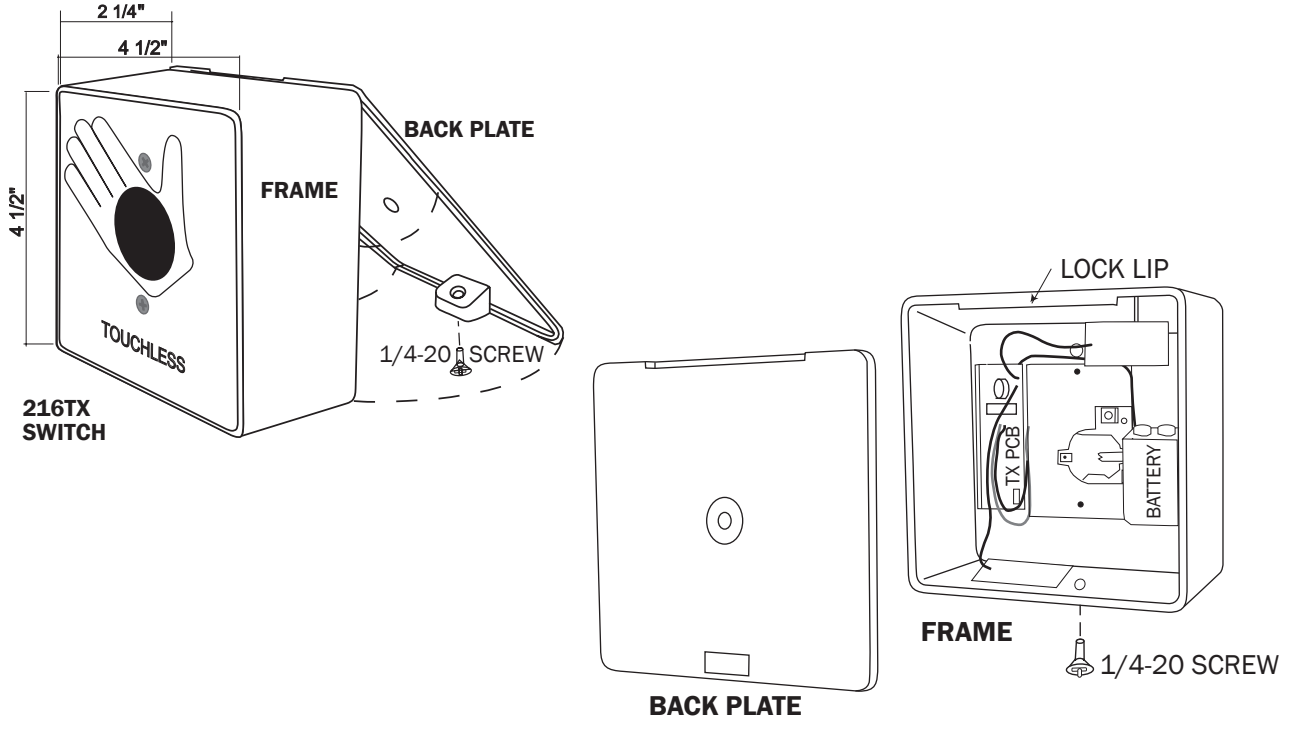


216TX-WT



216TX-HG

DIMENSIONS

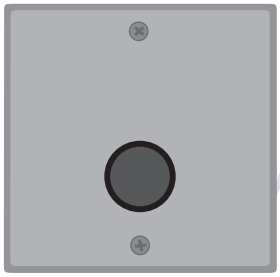


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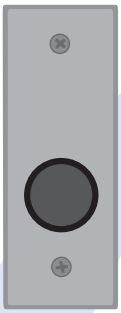
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ENGINEERED FOR MOTION

614 Series
Extreme Switches



#614-SS (Stainless Steel with No Legend)



#614-NSS (Stainless Steel with No Legend)



1 1/2" Self-Sticking Mylar Face Plate Decals (Blue Background/White Legend)

Product Name
614 Series
Extreme Switches

Contact Information
MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

Product Description
BASIC USE
The 614 Series extreme switches are designed to provide reliable activation of any automatic door in extreme environments.

The 614 series are virtually indestructible switches. The 1" diameter red anodized aluminum button utilizes a piezo material that has no moving parts. Ideal for industrial clean rooms or other wet environments, the 614 is completely waterproof.

Two different size face plates are available. Both are formed, heavy gauge stainless steel. The 614 series switches will fit a single-gang electrical box or a 1 3/4" door frame. Surface mount boxes are also available.

Technical Data
- Virtually Indestructible Switch
- 1" Diameter Red Anodized Pressure Sensitive (5 lbs.) SPST Button
- Face Plate Sizes:
  Single-gang—4 1/2" x 4 1/2"
  Jamb—1 11/16" x 4 1/2"
- Waterproof—Completely Sealed
- Weatherproof (-40°F to 257°F)
- No Moving Parts—Patented Solid State Piezo Technology
- Tested To 50 Million Cycles
- Radio Control Versions Available

DIMENSIONS
See Reverse

ClearPath™

ClearPath™ Radio Control Switches with HDRC™ solve problems caused by interference and stray signals — and are guaranteed to work where others won't.

APPLICABLE STANDARDS
American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.

APPROVALS
IP68 Enclosure

Installation
Refer to MS SEDCO Installation Instruction Sheet.

Custom Applications:
The 614 Series switch can be customized in a variety of ways. Virtually any legend can be placed on the face plate as well as custom colors or finishes. Contact the factory for pricing.

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 distributor.

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ENGINEERED FOR MOTION

Warranty

MS SEDCO, Inc. guarantees this product to be free from manufacturing defects for three years from date of installation. Unless MS SEDCO is notified of the date of installation, the warranty will be in effect for three years from the date of shipment from our factory. If, during the first three years, this product fails to operate and has not been tampered with or abused, the unit can be returned prepaid to the factory and be repaired free of charge. After three years, the unit will be repaired for a nominal service charge. **Limited warranty is in lieu of all other warranties, expressed or implied, including any implied warrantability of merchantability. No representative or person is authorized to assume for MS SEDCO any other liability in connection with the sale of our products. All warranties are limited to the duration of this written limited warranty. In no event shall MS SEDCO be liable for any special, incidental, consequential or other damage arising from any unclaimed breach of warranty as to its products or services.**

Maintenance

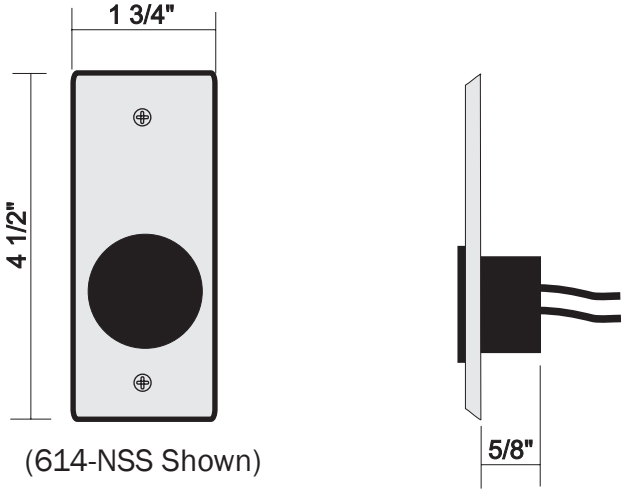
MS SEDCO recommends that all maintenance and adjustments be performed by an AAADM Certified Technician.

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.

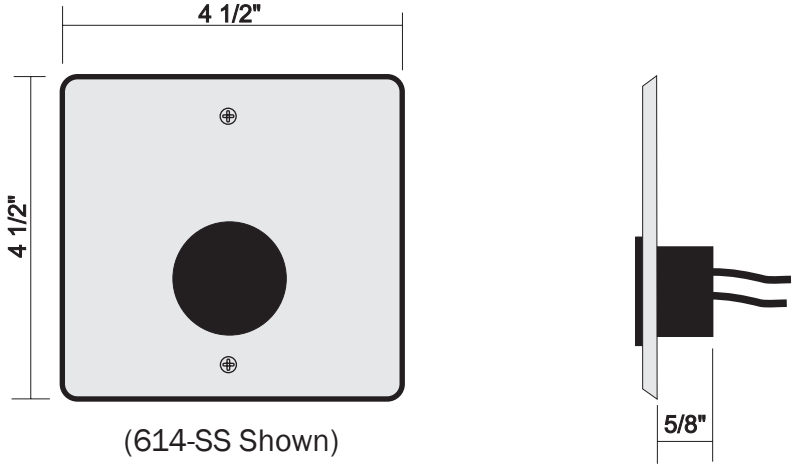
DIMENSIONS

Narrow Extreme Switch



(614-NSS Shown)

Single-Gang Extreme Switch



(614-SS Shown)

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ENGINEERED FOR MOTION

830 Series
Heavy Duty Keyswitches



#830 (4 1/2" x 4 1/2" Face Plate)



#830-L-RG (2 3/4" x 4 1/2" Face Plate)



#830-N (1 11/16" x 4 1/2" Face Plate)

Product Name
830 Series
Heavy Duty Keyswitches

Contact Information
MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

Product Description
BASIC USE
The 830 Series heavy duty keyswitches are a reliable and economical way to momentarily activate or turn on and off low voltage electrical devices.

When used with automatic doors, the 830 series keyswitches can be used to turn an operator or any activation device on and off. They are also a simple way to provide secure activation of any automatic door.

The 830 series keyswitches are available with a maintained or momentary contact switch. An additional switch of either type can be added. The 830 series also features a choice of three different size stainless steel faceplates. The heavy duty switch bracket features a switch activator dead stop which prevents the key cylinder from damaging a single switch.

Technical Data
- Operates With Standard 1" - 1 1/4" Mortised Cylinder
- Mortised Cylinders Available Separately
- Adjustable Mounting holes Help "Plumb and Square" Keyswitch
- UL Listed SPST Push Button Switch
  - Maintained Contact: 125 VAC, 6A, Red Button
  - Momentary Contact: 125 VAC, 3A, Black Button
- Fits Single-gang, 2-gang Electrical Boxes or MS SEDCO #1015 and #1035 Surface Mount Boxes
- Radio Control Versions Available
- Face Plate Sizes:
  4 1/2" x 4 1/2"—Fits Single-gang or 2-gang Box (830)
  2 3/4" x 4 1/2"—Fits Single-gang box (830-L)
  1 11/16" x 4 1/2"—Fits Door Jamb (830-N)
- Optional LED Indicators Available. LED Rated for use at 12-24V AC or DC

DIMENSIONS
See Reverse

APPLICABLE STANDARDS
American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.

APPROVALS
UL (Micro-Switch)

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830 Series
Heavy Duty Keyswitches

ENGINEERED FOR MOTION

Installation
The 830 keyswitch is easy to install. It mounts directly to any single-gang box, 2-gang box or a #1015 surface mount box. Wiring is made simple with a plugable wiring harness (consult installation instructions for specific wiring directions).

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

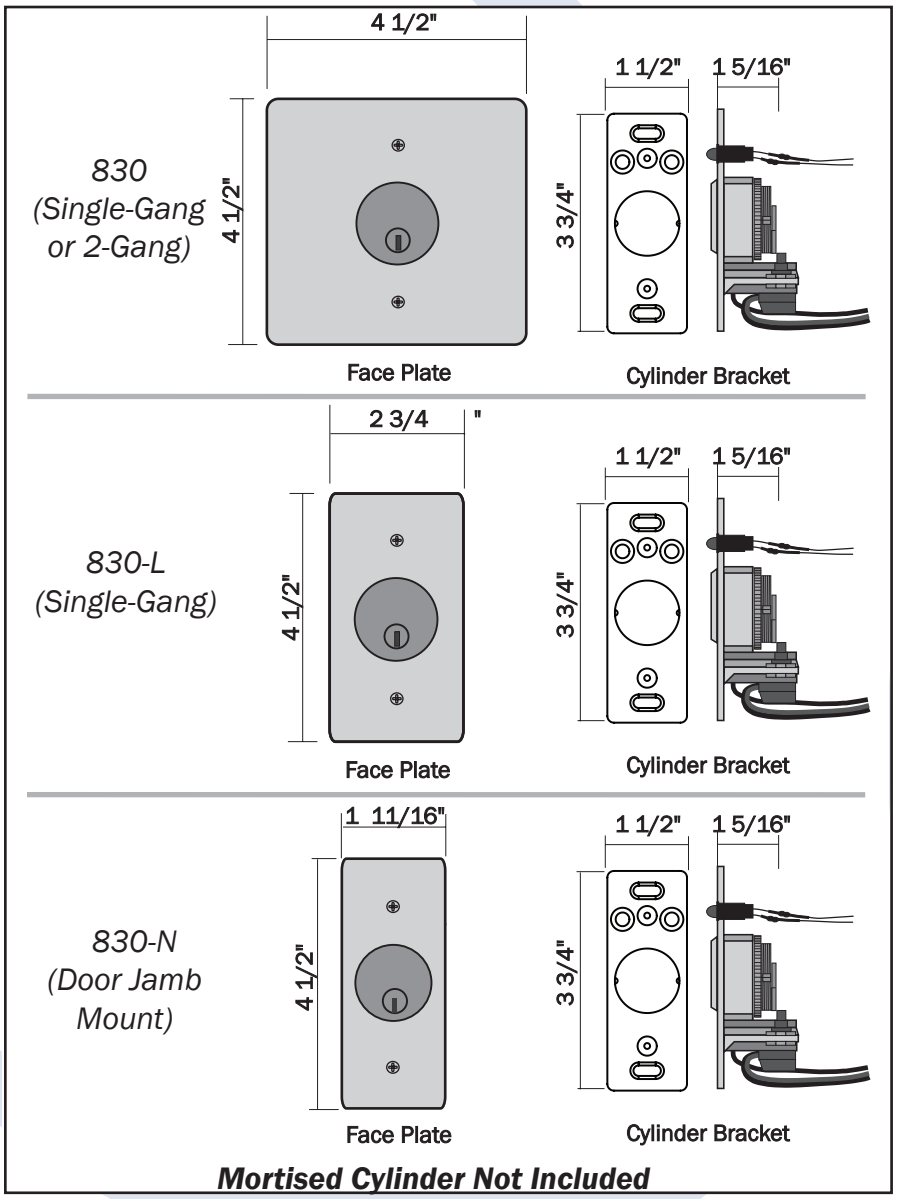
COST
Cost information on MS SEDCO products is available from the manufacturer's authorized distributor.

Warranty
A one 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 AADM 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.

DIMENSIONS



Mortised Cylinder Not Included

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ENGINEERED FOR MOTION

Sedco 830 Series
Combination Heavy Duty Keyswitches and Push Plate Switches



830-59J-H-RG



830-59J-H



830-59J-HSS-RG


830-59J-WSS-RG

Product Name
Sedco 830 Series
Combination Heavy Duty Keyswitches and Push Plate Switches

Contact Information
MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

Product Description
BASIC USE
The 830 Series combination keyswitches and push plate switches are designed to provide reliable and secure activation of any low voltage device.

These unique devices are two switches in one. The keyswitch and the push plate switch can be set up to work independently of each other or the keyswitch can turn the push plate switch on and off, providing an economical way to secure the push plate switch after hours.

The keyswitch is available with either a momentary or maintained contact switch. The push plate switch utilizes the 59J series face plates. The 830 series combination switch can also be used with radio control transmitters.

Technical Data
- Operates with Standary 1 1/8" - 1 1/4" Mortised Cylinder
- Mortised Cylinder Available Separately
- Heavy Duty Keyswitch Features UL Listed SPST Push Button Wwitch
  - Maintained Contact: 125 VAC, 6A, Red Button
  - Momentary Contact: 125 VAC, 3A, Black Button
- Optional LED Indicators Available, LED Rated for use at 12-24V AC or DC
- Push Plate Switch Utilizes a 1 1/2" x 4 1/4" All Active Face Plate
- 4 1/2" x 4 1/2" Formed Stainless Steel Back Plate
- Push Plate Switch—UL Listed "Cherry Switch", SPDT, Mom. , 15 Amp @ 125V AC
- Push Plate Switch—Rubber "Bellows" Increases Weather Protection (included)
- Fits 2-gang Electrical Box or MS SEDCO Surface Mount Box
- Special Finishes: US3, US4, US10, US10B, US32
- Radio Control Versions Available

DIMENSIONS
See Reverse

APPLICABLE STANDARDS
American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.

APPROVALS
UL (Micro-Switch)

Installation
The 830 combination keyswitch is easy to install. It mounts directly to any 2-gang wall box or an MS SEDCO surface mount box. Wiring is made simple with a plugable wiring harness (consult installation instructions for specific wiring directions).

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Sedco 830 Series
Combination Heavy Duty Keyswitches and Push Plate Switches

ENGINEERED FOR MOTION

Availability & Cost

AVAILABILITY

Available internationally from manufacturer's authorized distributors; contact MS SEDCO for location of nearest distributor.

COST

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

Warranty

MS SEDCO, Inc. guarantees this product to be free from manufacturing defects for three years from date of installation. Unless MS SEDCO is notified of the date of installation, the warranty will be in effect for three years from the date of shipment from our factory If, during the first three years, this product fails to operate and has not been tampered with or abused, the unit can be returned prepaid to the factory and be repaired free of charge. After three years, the unit will be repaired for a nominal **service charge. Limited warranty is in lieu of all other warranties, expressed or implied, including any implied warrantability of merchantability. No representative or person is authorized to assume for MS SEDCO any other liability in connection with the sale of our products. All warranties are limited to the duration of this written limited warranty. In no event shall MS SEDCO be liable for any special, incidental, consequential or other damage arising from any unclaimed breach of warranty as to its products or services.**

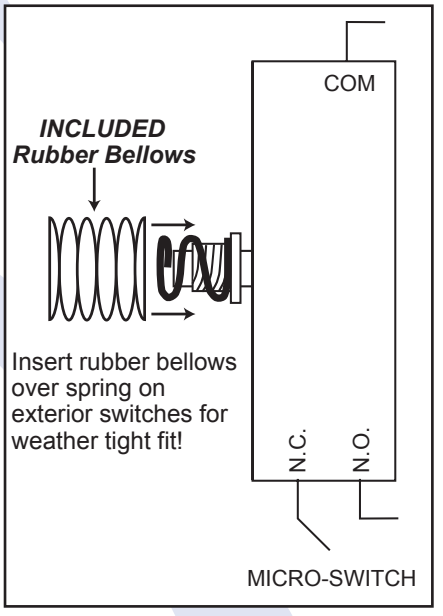
Maintenance

MS SEDCO recommends that all maintenance and adjustments be performed by an AAADM Certified Technician.

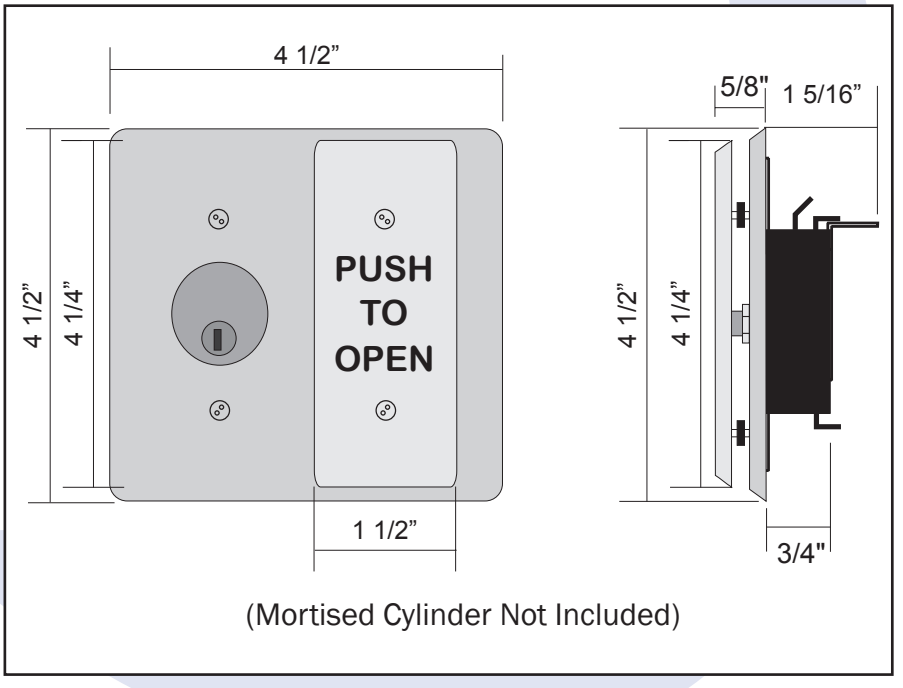
Technical Services

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.

BELLOWS DIAGRAM



DIMENSIONS



(Mortised Cylinder Not Included)

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www.mssedco.com ■ custsvc@mssedco.com

ENGINEERED FOR MOTION

628 Series
Heavy Duty 2-Switch Bollards



(Shown with 59-HSS & 59-H)

Product Name
628 Series
Heavy Duty 2-Switch Bollards with LongLife™ Finishes

Contact Information
MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

Product Description
BASIC USE
The 628 Series Switch Bollards are designed to provide a free standing self-contained door activation device that can be installed at any location. The 628 features a second switch with a centerline 7.5" above the floor in compliance with the 2007 California Building Code.

Attractive and built to withstand the toughest conditions, the 628 Series bollards are made of 5" square tubular steel that is 1/8" thick. The durable LongLife™ Finish protects against rust and consists of two coats: a zinc rich base coat on all surfaces and an industrial grade exterior powder coat finish. An innovative ABS plastic rust shield fits under the mounting shoe to help block the corrosive action of concrete to steel contact. The integral plastic cap allows superior wireless signal range.

The 628 Series bollards come standard with two single recess mounted switches or blank (without preps) so that equipment can be custom fit in the field. MS SEDCO Also offers custom machining and special finishes. All versions can be ordered for either hardwired or wireless operation.

Technical Data
- Microswitch Includes Rubber Bellows For Added Weather Protection
- 5" Square Tubular Steel, 1/8" Wall Thickness
- Formed Plastic Cap With Integral Transmitter (Optional) For Wireless Operation
- Interchangeable Surface And Inground Mounting Shoes OR External Surface Mounting Foot Available
- Durable Exterior Grade LongLife™ Finish with Rust Shield In Gray Or Dark Bronze

APPLICABLE STANDARDS
American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.
2007 California Building Code.

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
MS SEDCO, Inc. guarantees this product to be free from manufacturing defects for one year from date of installation. Unless MS SEDCO is notified of the date of installation, the warranty will be in effect for one year from the date of shipment from our factory. If, during the first year, this product fails to operate and has not been tampered with or abused, the unit can be returned prepaid to the factory and be repaired free of charge. After one year, the unit will be repaired for a nominal service charge. **Limited warranty is in lieu of all other warranties, expressed or implied, including any implied warrantability of merchantability, no representative or person is authorized to assume for MS SEDCO any other liability in connection with the sale of our products. All warranties are limited to the duration of this written limited warranty. In no event shall MS SEDCO be liable for any special, incidental, consequential or other damage arising from any unclaimed breach of warranty as to its products or services.**

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628 Series
Heavy Duty 2-Switch Bollards

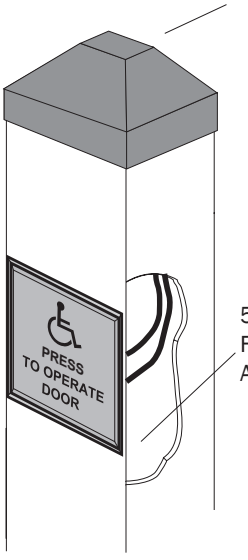
ENGINEERED FOR MOTION

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

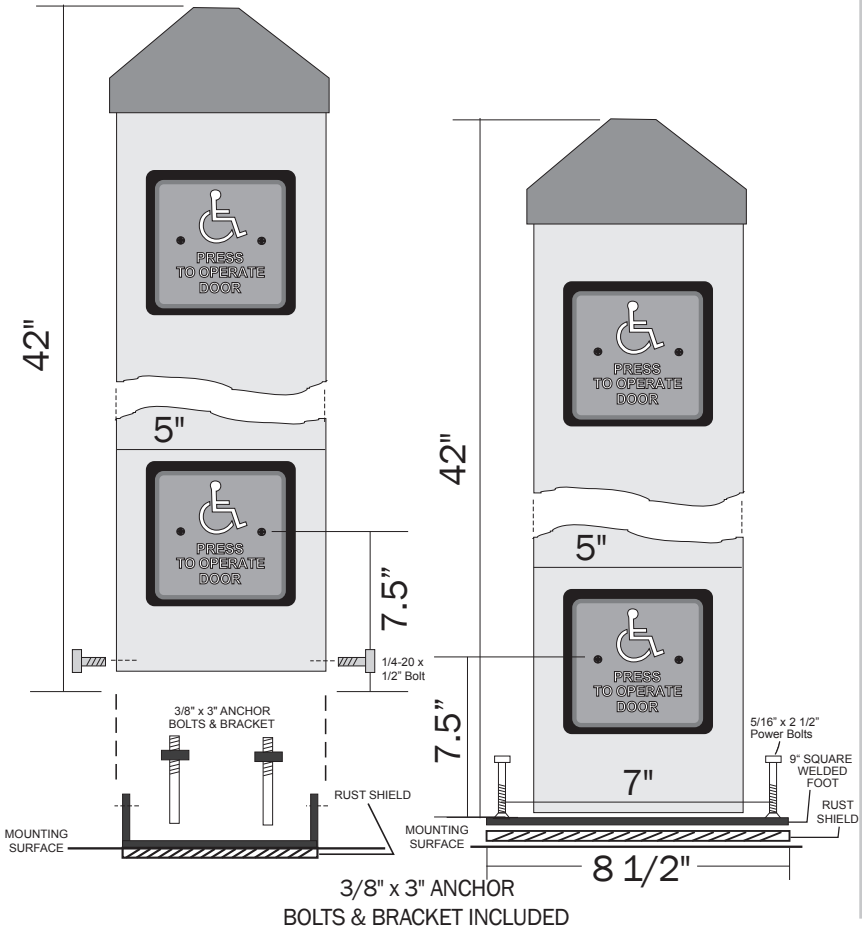


OPTIONAL RADIO TRANSMITTER LOCATED DIRECTLY UNDER PLASTIC END CAP FOR OPTIMUM PERFORMANCE AND EASE OF BATTERY REPLACEMENT

59 SERIES SWITCH RECESS MOUNTED FOR ADDED WEATHER PROTECTION AND DURABILITY

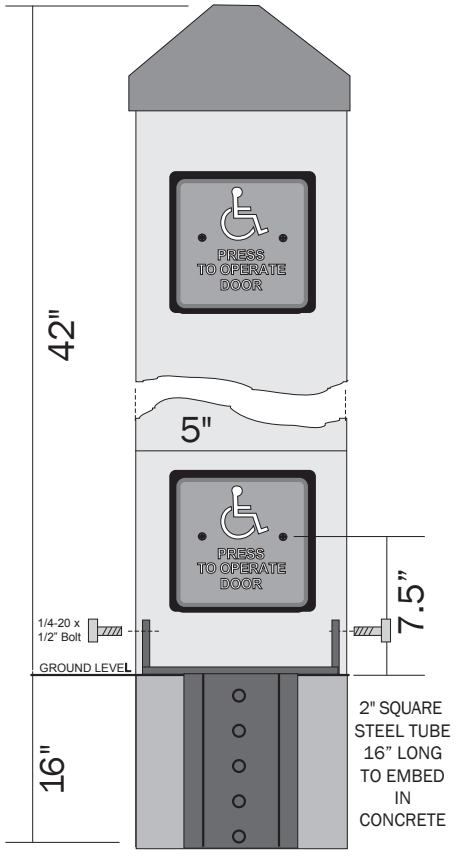
DIMENSIONS

SURFACE MOUNTED TO CONCRETE



3/8" x 3" ANCHOR BOLTS & BRACKET INCLUDED

EMBEDDED IN CONCRETE



EMBED IN CONCRETE

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ENGINEERED FOR MOTION

608 Series
Heavy Duty
Push Plate Switch Posts



Vestibule Switches



Recessed Switch

Product Name
608 Series
Heavy Duty Push Plate Switch Posts with LongLife™ Finishes

Contact Information
MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

Product Description
BASIC USE
The 608 Series Switch Posts are designed to provide a free standing self-contained door activation device that can be installed at any location.

Attractive and built to withstand the toughest conditions, the 608 Series posts are made of 5" square tubular steel that is 1/8" thick. The durable LongLife™ Finish protects against rust and consists of two coats: a zinc rich base coat on all surfaces and an industrial grade exterior powder coat finish. An innovative ABS plastic rust shield fits under the mounting shoe to help block the corrosive action of concrete to steel contact. The integral plastic cap allows superior wireless signal range.

The 608 Series posts come standard with a single recess mounted switch, 2 switches for vestibule operation or blank (without preps) so that equipment can be custom fit in the field. MS SEDCO also offers custom machining and special finishes. All versions can be ordered for either hardwired or wireless operation.

Technical Data
- Microswitch Includes Rubber Bellows For Added Weather Protection
- 5" Square Tubular Steel, 1/8" Wall Thickness
- Formed Plastic Cap With Integral Transmitter (Optional) For Wireless Operation
- Interchangeable Surface And Inground Mounting Shoes
- Durable Exterior Grade LongLife™ Finish with Rust Shield In Gray Or Dark Bronze

DIMENSIONS
See Reverse

APPLICABLE STANDARDS
American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.

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
MS SEDCO, Inc. guarantees this product to be free from manufacturing defects for one year from date of installation. Unless MS SEDCO is notified of the date of installation, the warranty will be in effect for one year from the date of shipment from our factory. If, during the first year, this product fails to operate and has not been tampered with or abused, the unit can be returned prepaid to the factory and be repaired free of charge. After one year, the unit will be repaired for a nominal service charge. **Limited warranty is in lieu of all other warranties, expressed or implied, including any implied warrantability of merchantability, no representative or person is authorized to assume for MS SEDCO any other liability in connection with the sale of our products. All warranties are limited to the duration of this written limited warranty. In no event shall MS SEDCO be liable for any special, incidental, consequential or other damage arising from any unclaimed breach of warranty as to its products or services.**

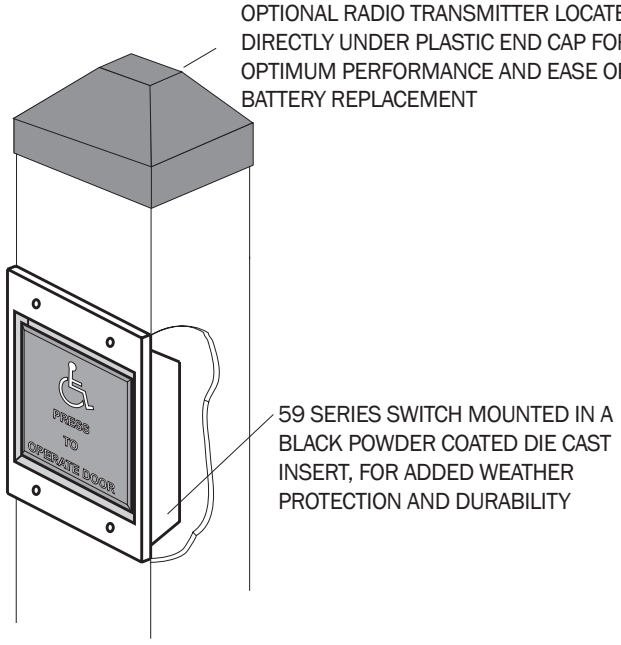
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www.mssedco.com ■ custsvc@mssedco.com

608 Series
Heavy Duty
Push Plate Switch Posts

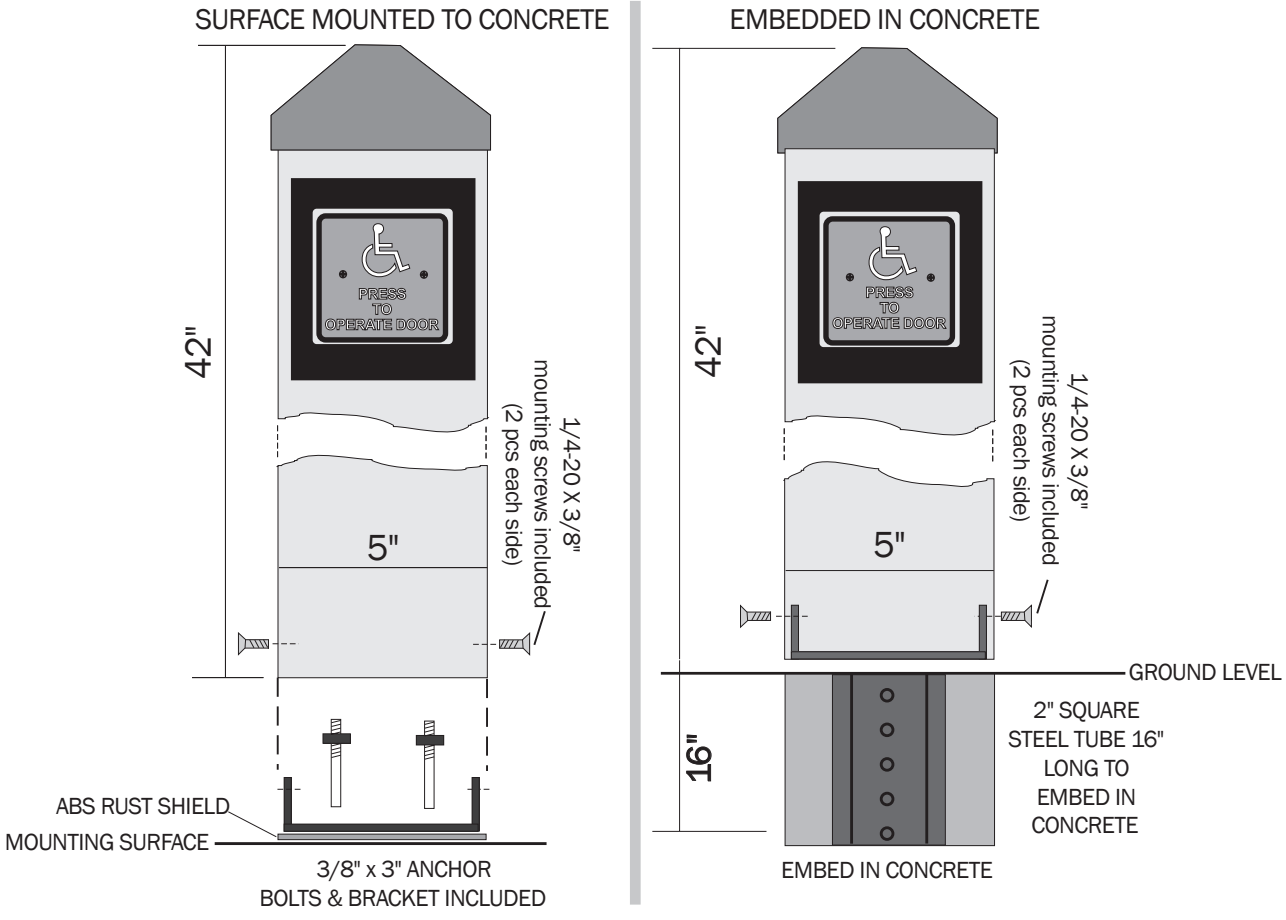
ENGINEERED FOR MOTION

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



DIMENSIONS



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ENGINEERED FOR MOTION

514 Series
Heavy Duty
Push Plate Switch Posts



BLANK POST

POST WITH 59J-H IN 1010 SURFACE BOX

Product Name
514 Series
Heavy Duty Push Plate Switch Posts with LongLife™ Finishes

Contact Information
MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

Product Description
BASIC USE
The 514 Series Switch Posts are designed to provide a free standing self-contained door activation device that can be installed at any location.

As an economical alternative to larger bollards, the 514 offers a sleek look. The 514 features a surface external foot for stability and easy installation, and an ABS rust shield. The 514 bollard is constructed for use with jamb-width switches, and is best complimented with a 59J switch in a 1010 surface box.

The 514 comes standard prepped for wiring, and can be customized in the field. It is available stand alone, with a switch installed, or with a switch and wireless transmitter installed.

Technical Data
- Microswitch Includes Rubber Bellows For Added Weather Protection
- 2" Square Tubular Steel, 1/8" Wall Thickness
- Welded Cap
- External Mounting Foot
- Durable Exterior Grade LongLife™ Finish with Rust Shield In Gray Or Dark Bronze

DIMENSIONS
See Reverse

APPLICABLE STANDARDS
American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.

Technical Data
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 one 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.

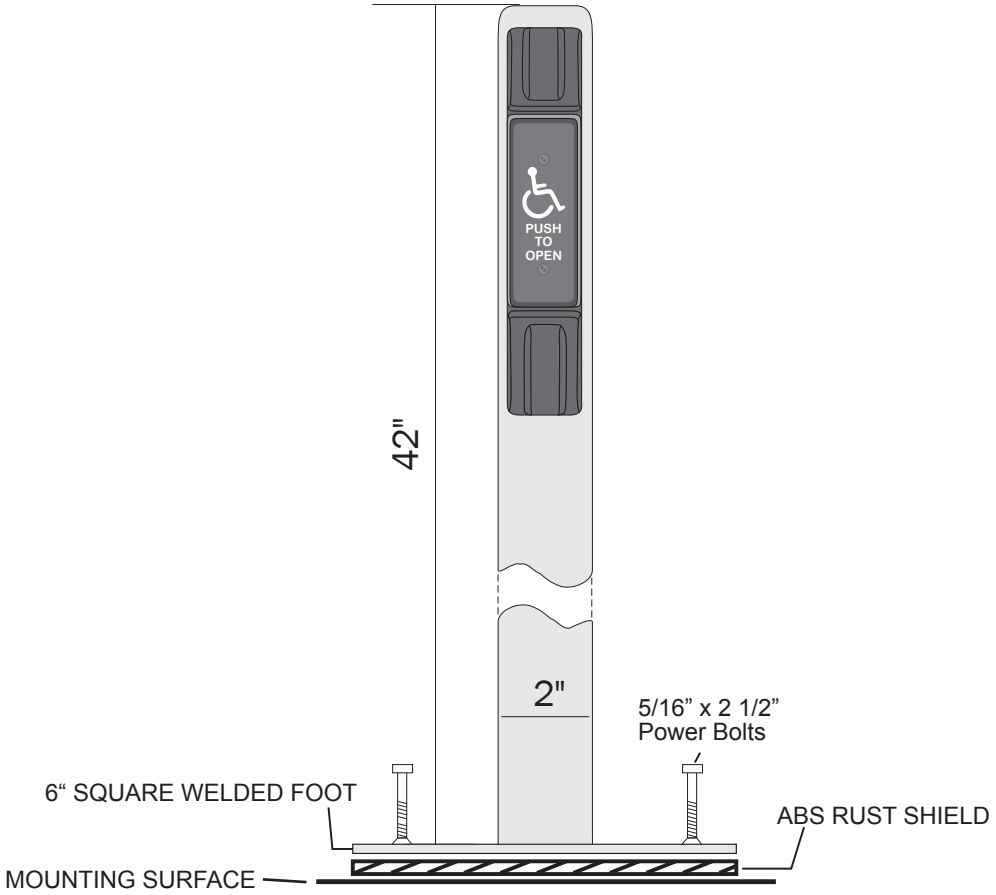
Technical Services
MS SEDCO's staff of factory trained sales and service personnel offer design assistance and technical support. Local distributors are also available to assist in selecting appropriate devices for specific uses and to provide onsite installation.

514 Series
Heavy Duty
Push Plate Switch Posts

ENGINEERED FOR MOTION

DIMENSIONS

SURFACE MOUNTED TO CONCRETE



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www.mssedco.com ■ custsvc@mssedco.com

Product Name
Mounting Boxes and Escutcheons

Contact Information
MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

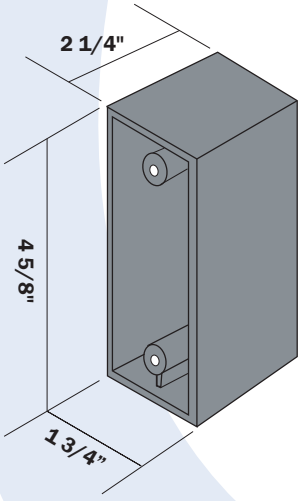
Product Descriptions

MOUNTING BOX COMPATIBILITY SUMMARY: One and Two Piece Mounting Boxes

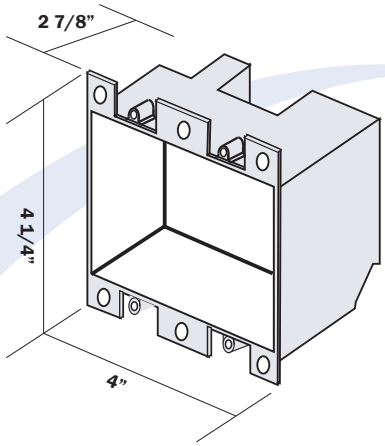
All mounting boxes are exterior grade polycarbonate surface mounting boxes designed so the switch will recess mount for superior weather protection and to eliminate potential snagging.

ONE PIECE MOUNTING BOXES

1035 Series
2" deep jamb box. Compatible with 59J Series switches and many other switches designed for jamb mount.



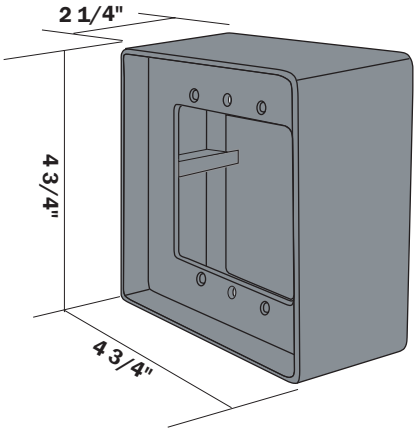
255R Series
2-gang recessed mount box.



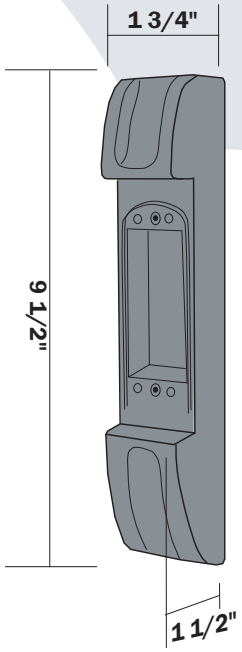
TWO PIECE MOUNTING BOXES

MS SEDCO's two piece mounting boxes are designed to make battery replacement quick and easy for wireless applications.

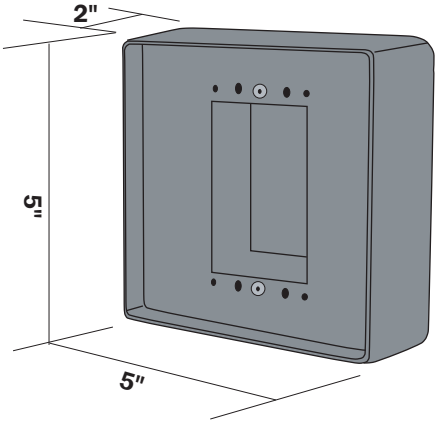
1015 Series
Compatible with 59, 59V, 1078, 216, 830 & 614 Series switches.



1010 Series
Compatible with 59J Series switches.



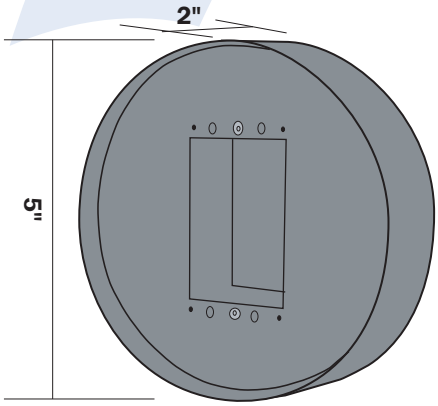
1020 Series
Compatible with 59, 216 and 614 Series switches.



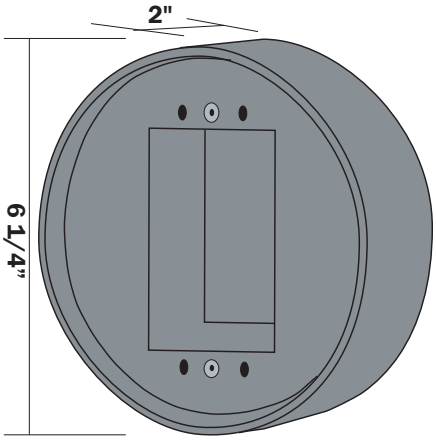
ENGINEERED FOR MOTION

TWO PIECE MOUNTING BOXES (continued)

1025 Series
Round boxes compatible with all 59R4 Series switches.



1030 Series
Round boxes compatible with all 59R6 Series switches.



Decorative Escutcheons
ESC-59R4: Plate for 59R4 Series
ESC-59R6: Plate for 59R6 Series

Dress up the appearance of your MS Sedco round switch with a stainless escutcheon plate. Plates are available for the R4 and R6 switches, and can be mounted directly to the wall or to a single or 2-gang electrical box.





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www.mssedco.com ■ custsvc@mssedco.com



Product Name
ClearPath™ CP/TX
Transmitters
(Pictured with 59-H—Switches available separately or included in ClearPath Kits)

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

Product Description
BASIC USE
The CP/TX wall mount transmitter is part of the ClearPath Radio Control Push Plate Switch Activation System that provides the most reliable wireless activation of automatic doors available.

The CP/TX transmitter comes prewired and installed with battery in a surface mount box making installation quick and easy. The CP/TX can transmit three different frequencies. If interference is encountered on one frequency, simply switch to one of the other frequencies to solve the problem. The CP/TX can also be used interchangeably with other manufacturer's products that operate on its frequencies as well. Only ClearPath offers this flexibility.

Technical Data
- Utilizes Proprietary High Definition Radio Control™ (HDRC™) For Unsurpassed Signal Transmission Clarity
- Three User Selectable Frequencies Available In Single Unit: HDRC™, 300 MHz, 390 MHz
- FCC License For All Three Frequencies
- SignalLock™ Guarantees Signal Transmission When Push Plate Switch Is Pressed
- Power Saving Circuitry Extends Battery Life
- Integrated Signal Radiating Antenna Boosts Signal Strength
- Transmitter And Battery Factory Prewired And Installed In Mounting Boxes
- Powered By Standard 9V Battery
- Quick Battery Access
- Sequencing Transmitter Available (CP/STX)
- Temperature Range: -4°F to 140°F (-20°C to 60°C)

DIMENSIONS
See Reverse

APPLICABLE STANDARDS
American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.

APPROVALS
FCC
US patent 7,545,833

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.

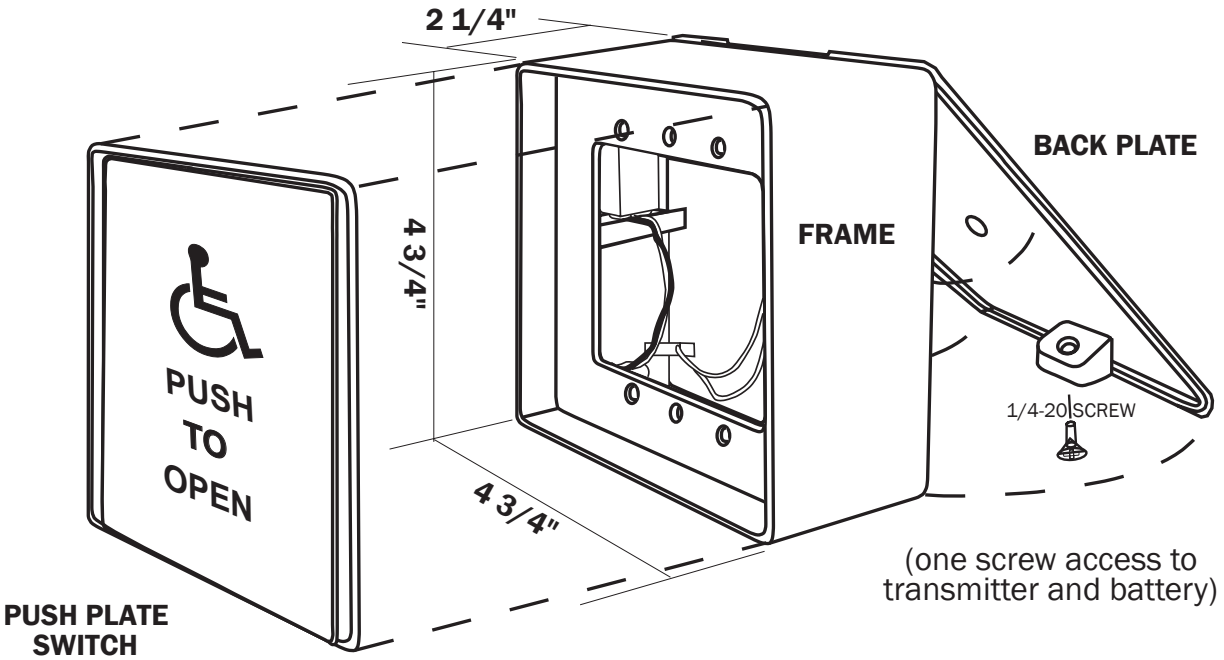
Warranty
A one year warranty is available from the manufacturer covering defects in materials and workmanship. Contact MS SEDCO for details.

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.

ENGINEERED FOR MOTION

CP/TX TRANSMITTER DIAGRAM



CP/TX Radio Transmitter
(Pictured with 59-H—Sold Separately)

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www.mssedco.com ■ custsvc@mssedco.com

ENGINEERED FOR MOTION

ClearPath™ CP/TX-J Transmitters



Product Name
ClearPath™ CP/TX-J
Transmitters
(Pictured with 59J-H—Switches available separately or included in ClearPath Kits)

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

Product Description
BASIC USE
The CP/TX-J jamb mount transmitter is part of the ClearPath Radio Control Push Plate Switch Activation System that provides the most reliable wireless activation of automatic doors available.

The CP/TX-J transmitter comes prewired and installed with battery in a surface mount box making installation quick and easy and the entire assembly will fit on a 1 3/4" door frame.

The CP/TX-J can transmit three different frequencies. If interference is encountered on one frequency, simply switch to one of the other frequencies to solve the problem. The CP/TX-J can also be used interchangeably with other manufacturer's products that operate on its frequencies as well. Only ClearPath offers this flexibility.

Technical Data
- Utilizes Proprietary High Definition Radio Control™ (HDRC™) For Unsurpassed Signal Transmission Clarity
- Three User Selectable Frequencies Available In Single Unit: HDRC™, 300 MHz, 390 MHz
- FCC License For All Three Frequencies
- SignalLock™ Guarantees Signal Transmission When Push Plate Switch Is Pressed
- Power Saving Circuitry Extends Battery Life
- Integrated Signal Radiating Antenna Boosts Signal Strength
- Transmitter And Battery Factory Prewired And Installed In Mounting Boxes
- Powered By Standard 9V Battery
- Sequencing Transmitter Available (CP/STX-J)
- Temperature Range: -4°F to 140°F (-20°C to 60°C)

DIMENSIONS
See Reverse

APPLICABLE STANDARDS
American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.

APPROVALS
FCC
US patent 7,545,833

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.

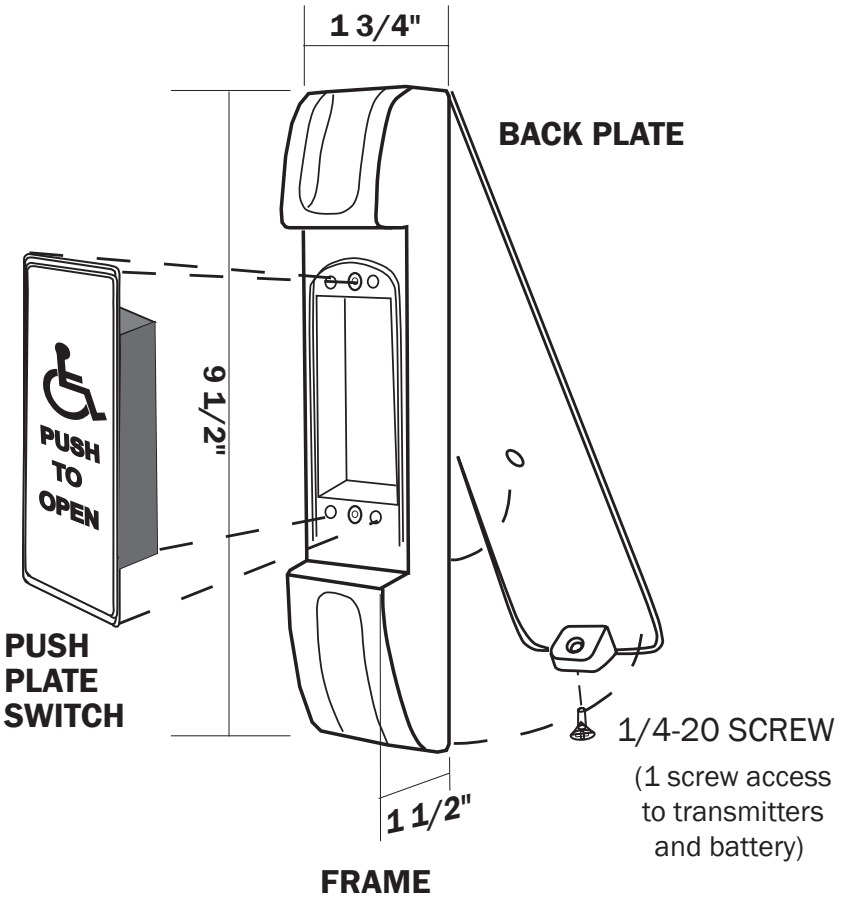
Warranty
A one year warranty is available from the manufacturer covering defects in materials and workmanship. Contact MS SEDCO for details.

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.

8701 Castle Park Drive ■ Indianapolis, Indiana 46256 ■ Telephone: (317) 842-2545 ■ Fax: (317) 849-3387
www.mssedco.com ■ custsvc@mssedco.com

CP/TX-J TRANSMITTER DIAGRAM



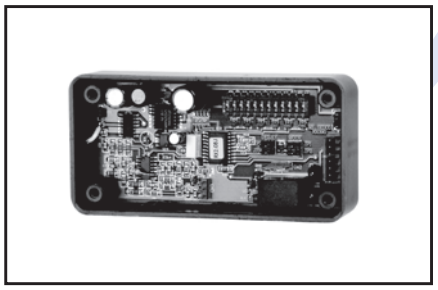
CP/TX-J Radio Transmitter
(Pictured with 59J-H—Sold Separately)

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MS SEDCO
ENGINEERED FOR MOTION

ClearPath

ClearPath™ CP/RX
Multi-Mode Receiver



Product Name
ClearPath™ CP/RX
Multi-Mode Receiver

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

Product Description
BASIC USE
The CP/RX receiver is part of the ClearPath Radio Control Push Plate Switch Activation System that provides the most reliable wireless activation of automatic doors available. All ClearPath transmitters communicate with this one receiver.

In addition to being a receiver, the CP/RX can be easily programmed to become a timer, dual receiver or a sequencing receiver.

The CP/RX accepts three different frequencies. If interference is encountered on one frequency, simply switch to one of the other frequencies to solve the problem. The CP/RX can also be used interchangeably with other manufacturer's products that operate on its frequencies. Only ClearPath offers this flexibility.

Technical Data
- Utilizes Proprietary High Definition Radio Control™ (HDRC™) For Unsurpassed Signal Transmission Clarity.
- Three User Selectable Frequencies Available in Single Unit: HDRC™, 300 MHz, 390 MHz
- FCC License For All Three Frequencies
- 5 Programming Modes:
  Mode 1: Standard Receiver (factory setting)
  Mode 2: Receiver With Adjustable Time Delay
  Mode 3:* Dual Channel Receiver
  Mode 4:* Receiver With Sequenced Outputs
  *Mode 5**:* Receiver With Ratchet Relay

**Modes 3 & 4 Require The RXM Add-On Module. This Module Plugs Directly Onto The CP/RX Main Circuit Board And Provides A Second Output.*

***Mode 5 Requires The RXR Add-On Module. The Module Plugs Directly Onto The CP/RX Main Circuit Board and Allows For Initial Signal To Hold Relay Closed Until A Second Signal Is Received.*

- N.O. And N.C. Contacts
- Pluggable Wire Harness
- Internal Surge Protection Wires Directly To Electric Locking Devices
- Output Contact: Form C, Rated At 3 Amps
- Power Requirements: 12V To 24V AC or DC
- Relay Contact Rating: 3 amp @ 24V AC
- Compact Size: 4"L x 2"W x 1"H
- Temperature Range: -4°F to 140°F (-20°C to 60°C)

DIMENSIONS
See Reverse

APPLICABLE STANDARDS
American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.

APPROVALS
FCC
US patent 7,545,833

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.

ENGINEERED FOR MOTION

Warranty
A one 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.

CP/RX RECEIVER DIAGRAMS

OVERALL DIMENSIONS: 2”W x 4”L x 1”H

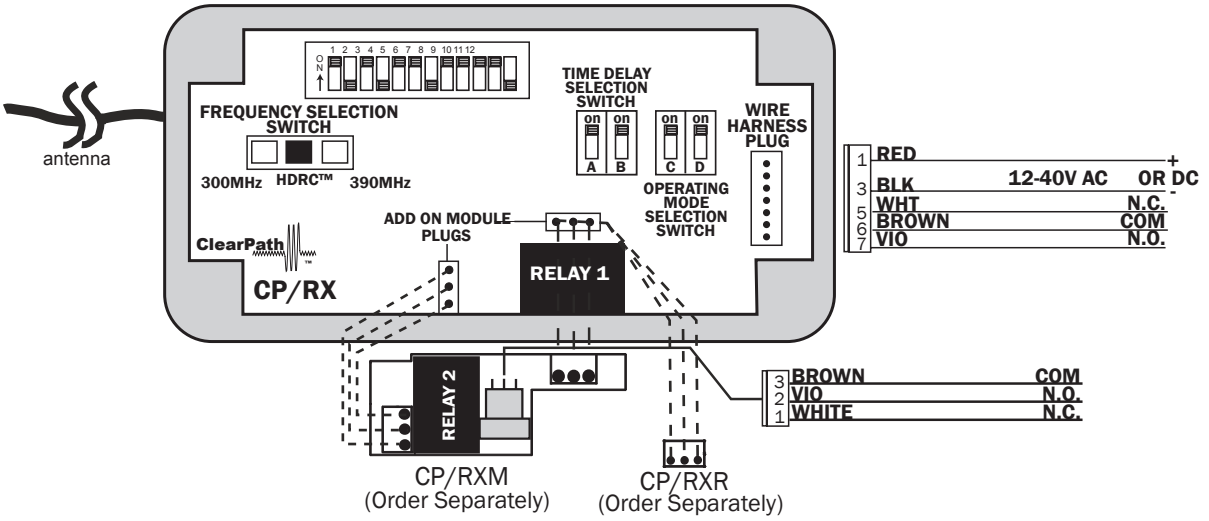


Table 1

Mode#	C	D	Operating Mode
1	OFF	OFF	Normal Receiver (Factory Setting)
2	ON	OFF	Receiver with Time Delayed Output
3*	OFF	ON	Dual Receiver
4*	ON	ON	Receiver With Sequenced Outputs
5**	N/A	N/A	Receiver With Ratchet Relay

*Requires CP/RXM
**Requires CP/RXR

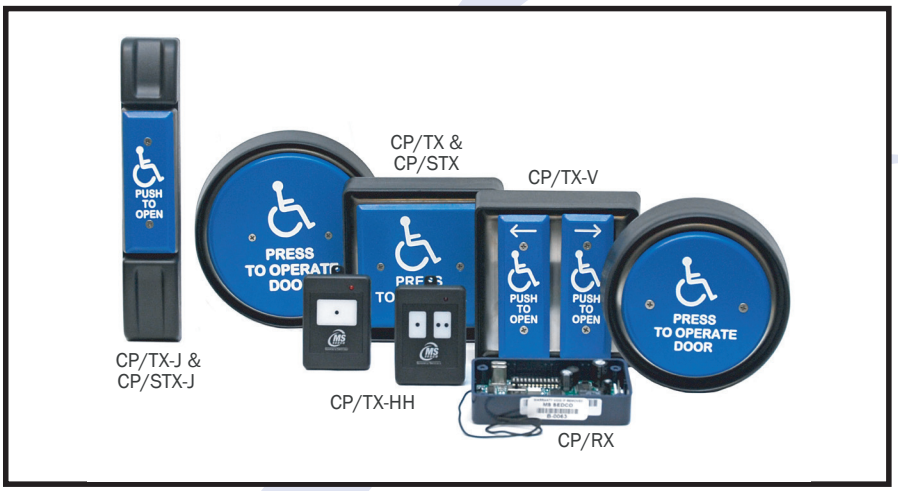
Table 2

A	B	Time Delay
ON	ON	5 Seconds
ON	OFF	10 Seconds
OFF	ON	15 Seconds
OFF	OFF	20 Seconds

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ENGINEERED FOR MOTION

ClearPath™ Radio Control Vestibule System



Product Name
ClearPath™ Radio Control
Vestibule System
(Switches available separately or included in ClearPath Kits)

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

Product Description
BASIC USE
The ClearPath vestibule system provides reliable wireless sequenced activation of automatic vestibule doors.

The CP/STX and CP/STX-J receive a programming upgrade from the basic transmitters that enables them to be sequencing transmitters. They mount on the interior and exterior of the vestibule entrance and are capable of transmitting two separate signals with an adjustable time delay between them to sequence vestibule doors one after the other from either direction.

The CP/TX-V is a dual transmitter that mounts in the vestibule between the doors allowing independent activation of each door.

Radio Control Components for the ClearPath Vestibule System (See Diagram):

Interior: 1-CP/STX (wall mount) or 1-CP/STX-J (door jamb mount) Sequencer
Inside Vestibule: 1-CP/TX-V Dual Transmitter
Exterior: 1-CP/STX (wall mount) or 1-CP/STX-J (door jamb mount) Sequencer
Interior Door Operator: 1-CP/RX Receiver
Exterior Door Operator: 1-CP/RX Receiver

**ClearPath transmitters & sequencers require push plate switches that are sold separately.*

Technical Data
- Utilizes Proprietary High Definition Radio Control™ (HDRC™) For Unsurpassed Signal Transmission Clarity
- Three User Selectable Frequencies Available In Single Unit: HDRC™, 300 MHz, 390 MHz
- FCC License For All Three Frequencies
- SignalLock™ Guarantees Signal Transmission When Push Plate Switch Is Pressed
- Power Saving Circuitry Extends Battery Life
- Integrated Signal Radiating Antenna Boosts Signal Strength
- Vestibule Transmitters Sequence Two Doors With User Adjustable Time Delay Between Signals Of 3, 5 or 10 Seconds
- Transmitter And Battery Factory Prewired And Installed In Mounting Boxes
- Powered By Standard 9V Battery
- Temperature Range: -4°F to 140°F (-20°C to 60°C)

DIMENSIONS
See Reverse

APPLICABLE STANDARDS
American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.

APPROVALS
FCC
US patent 7,545,833

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

012015

ClearPath™ Radio Control Vestibule System

ENGINEERED FOR MOTION

COST

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

Warranty

A one year warranty is available from the manufacturer covering defects in materials and workmanship. Contact MS SEDCO for details.

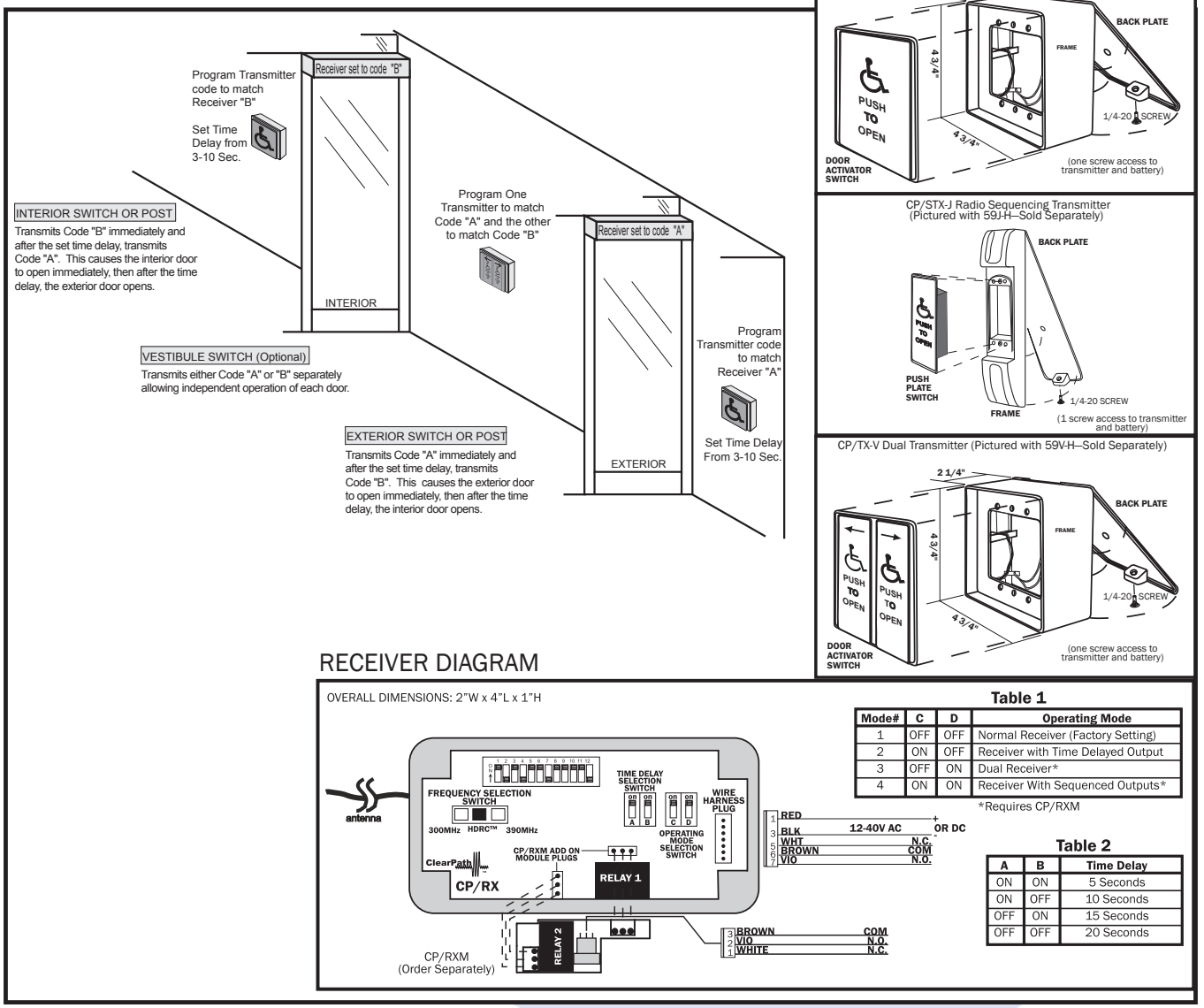
Maintenance

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.

ClearPath VESTIBULE SYSTEM DIAGRAM



TRANSMITTER DIMENSIONAL DIAGRAMS

CP/STX Radio Sequencing Transmitter (Pictured with 59-H–Sold Separately)

CP/STX-J Radio Sequencing Transmitter (Pictured with 59J-H–Sold Separately)

CP/TX-V Dual Transmitter (Pictured with 59V-H–Sold Separately)

RECEIVER DIAGRAM

OVERALL DIMENSIONS: 2"W x 4"L x 1"H

Table 1

Mode#	C	D	Operating Mode
1	OFF	OFF	Normal Receiver (Factory Setting)
2	ON	OFF	Receiver with Time Delayed Output
3	OFF	ON	Dual Receiver*
4	ON	ON	Receiver With Sequenced Outputs*

*Requires CP/RXM

Table 2

A	B	Time Delay
ON	ON	5 Seconds
ON	OFF	10 Seconds
OFF	ON	15 Seconds
OFF	OFF	20 Seconds

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ENGINEERED FOR MOTION

ClearPath™ CP/TX-HH Hand-Held Transmitters



(CP/TX-HH2 Pictured)

Product Name
ClearPath™ CP/TX-HH
Hand-Held Transmitters

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

Product Description
BASIC USE
The CP/TX-HH hand-held micro-transmitters are available in either a one button (CP/TX-HH1) or two button (CP-TX-HH2) versions and are a part of the ClearPath Radio Control Door Activation System that provides the most reliable wireless activation of automatic doors available.

The CP/TX-HH hand-held micro-transmitters are small enough to wear as a necklace yet have large, easy to activate buttons. The CP/TX-HH can transmit three different frequencies. If interference is encountered on one frequency, simply switch to one of the other frequencies to solve the problem. The CP/TX-HH can also be used interchangeably with other manufacturer's products that operate on its frequencies as well. Only ClearPath offers this flexibility.

Technical Data
- Utilizes Proprietary High Definition Radio Control™ (HDRC™) For Unsurpassed Signal Transmission Clarity
- Three User Selectable Frequencies Available In Single Unit: HDRC™, 300 MHz, 390 MHz
- FCC License For All Three Frequencies
- SignalLock™ Guarantees Signal Transmission When Door Activator Switch Is Pressed
- Power Saving Circuitry Extends Battery Life
- Compact Overall Size with Large Activation Buttons
- One (CP/TX-HH1) and Two (CP/TX-HH2) Buttons Available
- Temperature Range: -4°F to 140°F (-20°C to 60°C)

DIMENSIONS
See Reverse

APPLICABLE STANDARDS
American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.

APPROVALS
FCC
US patent 7,545,833

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

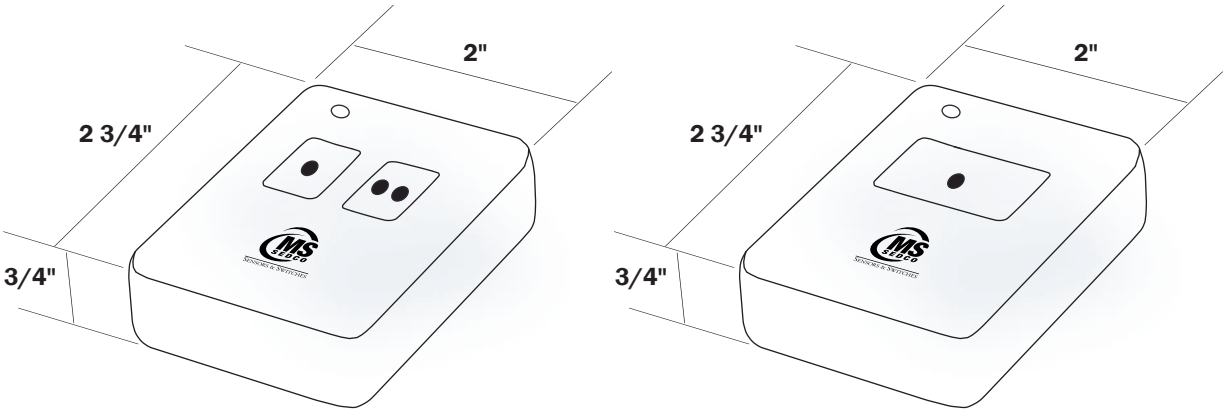
COST
Cost information on MS SEDCO products is available from the manufacturer's authorized distributors.

Warranty
A one 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.

CP/TX-HH TRANSMITTER DIAGRAMS



CP/TX-HH2
2 Button Transmitter

CP/TX-HH1
1 Button Transmitter

CP/TX-HH Hand-Held Micro-Transmitter

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www.mssedco.com ■ custsvc@mssedco.com

ENGINEERED FOR MOTION

ClearPath™ S-TRX Transceivers



Product Name
ClearPath™ S-TRX
Transceivers
(Pictured with 59-H—Switches available separately or included in ClearPath Spectrum Kits)

Contact Information
MS SEDCO
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Indianapolis, IN 46256
Phone: (317) 842-2545
Fax: (317) 849-3387
Email: custsvc@mssedco.com
www.mssedco.com

Product Description
BASIC USE
The S-TRX Transceiver is a part of the ClearPath Spectrum Wireless System. When used in conjunction with the S-COR Coordinator, the S-TRX functions in a similar role as traditional wireless transmitters, but this is where the similarities end. The Spectrum Wireless System provides several industry firsts:

- Digital two-way communication allows for greater security and ensures successful signal transmission between devices.
- LCD screen (S-COR) for quick and easy programming.
- Upon switch activation, the Transceivers communicate valuable information that is displayed on the LCD screen including: device ID, signal strength and battery monitoring.
- Pairing of multiple Transceivers with Coordinators.
- Two built-in outputs (S-COR).
- 3 year battery life (S-TRX).

ClearPath Spectrum products operate at 2.4 GHz, making the wave length more than 5 times shorter than commonly-used frequencies. Shorter waves pass through cracks and barriers easier, and transceivers will continue to attempt to contact the Coordinator until it receives an acknowledgement.

OPTIONS:
S-TRX =
Spectrum Transceiver with 1020 Square Mounting Box
S-TRX-R4 =
Spectrum Transceiver with 1025 Round Mounting Box
S-TRX-R6 =
Spectrum Transceiver with 1030 Round Mounting Box
S-TRX-J =
Spectrum Transceiver with 1010 Jamb Mounting Box

DIMENSIONS
See Reverse

APPLICABLE STANDARDS
American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.

APPROVALS
FCC

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.

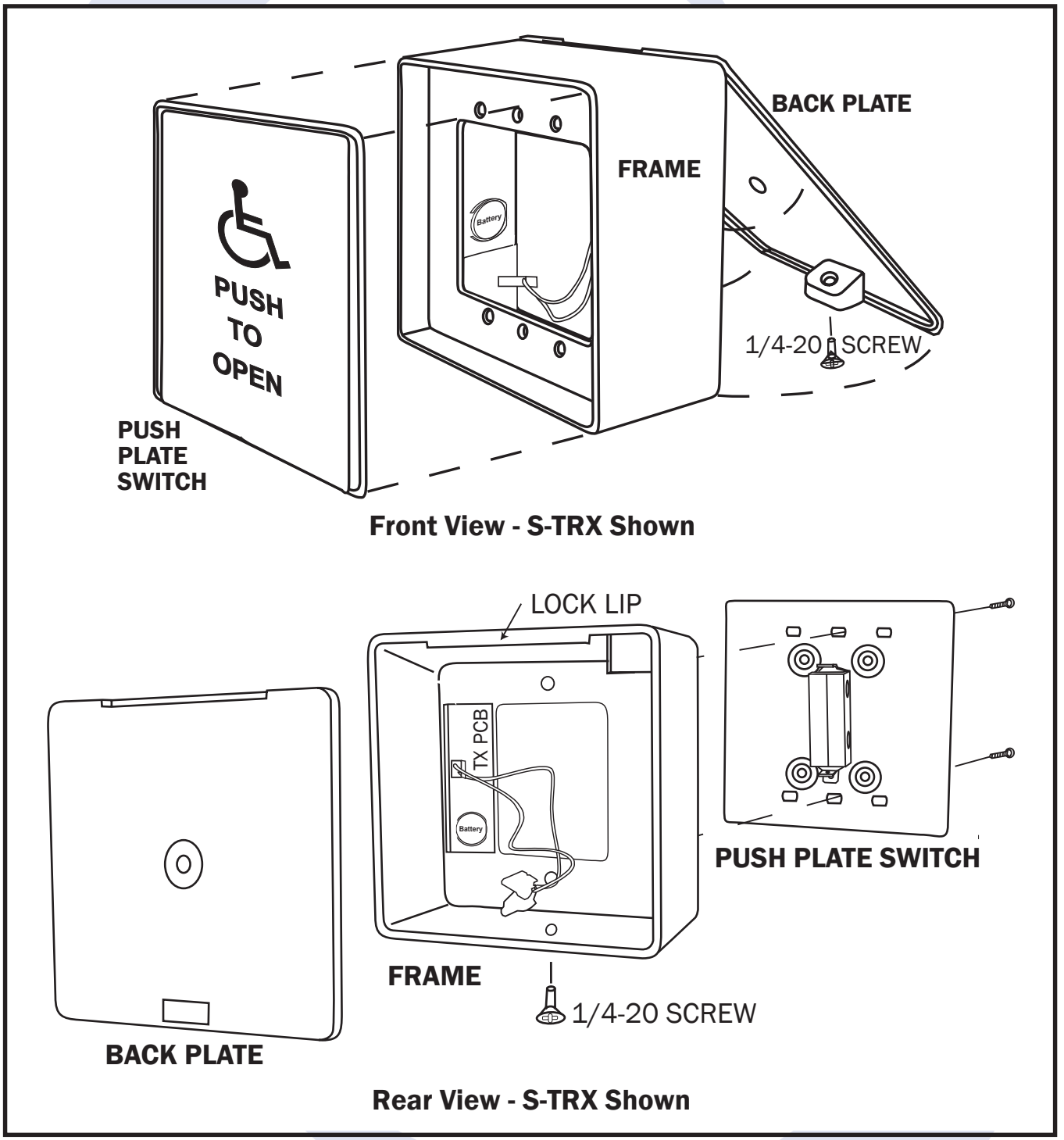
Warranty
A one year warranty is available from the manufacturer covering defects in materials and workmanship. Contact MS SEDCO for details.

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.

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S-TRX (-R4, -R6, -J) TRANSCEIVER DIAGRAM



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www.mssedco.com ■ custsvc@mssedco.com

ENGINEERED FOR MOTION

ClearPath™ S-TRX-J
Spectrum Jamb Mount Transceiver



Product Name
ClearPath™ S-TRX-J
Spectrum Jamb Mount Transceiver

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

Product Description
BASIC USE
The S-TRX-J Transceiver is a part of the ClearPath Spectrum Wireless System. When used in conjunction with the S-COR Coordinator, the S-TRX-J functions in a similar role as traditional wireless transmitters, but this is where the similarities end. The Spectrum Wireless System provides several industry firsts:

- Digital two-way communication allows for greater security and ensures successful signal transmission between devices.
- LCD screen (S-COR) for quick and easy programming.
- Upon switch activation, the Transceivers communicate valuable information that is displayed on the LCD screen including: device ID, signal strength and battery monitoring.
- Pairing of multiple Transceivers with Coordinators.
- Two built-in outputs (S-COR).
- 3 year battery life (S-TRX-J).

ClearPath Spectrum products operate at 2.4 GHz, making the wave length more than 5 times shorter than commonly-used frequencies. Shorter waves pass through cracks and barriers easier, and transceivers will continue to attempt to contact the Coordinator until it receives an acknowledgement.

OPTIONS:
OPTIONS:
S-TRX-J = Spectrum Transceiver with 1010 Jamb Mounting Box -

DIMENSIONS
See Reverse

APPLICABLE STANDARDS
American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.

APPROVALS
FCC

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 one 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.

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www.mssedco.com ■ custsvc@mssedco.com

ENGINEERED FOR MOTION

ClearPath™ S-COR
Spectrum Coordinator



Product Name
ClearPath™ S-COR
Spectrum Coordinator

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

Product Description
BASIC USE
The S-COR Coordinator is a part of the ClearPath Spectrum Wireless System. When used in conjunction with the S-TRX Transceiver, the S-COR Coordinator functions in a similar role as traditional wireless system receivers. This is where the similarities end. The Spectrum Wireless System provides several industry firsts:

- Digital two-way communication allows for greater security and ensures successful signal transmission between devices.
- LCD screen (S-COR) for quick and easy programming.
- Upon switch activation, the Transceivers communicate valuable information that is displayed on the LCD screen including: device ID, signal strength and battery monitoring.
- Pairing of multiple Transceivers with Coordinators.
- Two built-in outputs (S-COR).
- 3 year battery life (S-TRX).

ClearPath Spectrum products operate at 2.4 GHz, making the wave length more than 5 times shorter than commonly-used frequencies. Shorter waves pass through cracks and barriers easier, and transceivers will continue to attempt to contact the Coordinator until it receives an acknowledgement.

DIMENSIONS
See Reverse

APPLICABLE STANDARDS
American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.

APPROVALS
FCC

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.

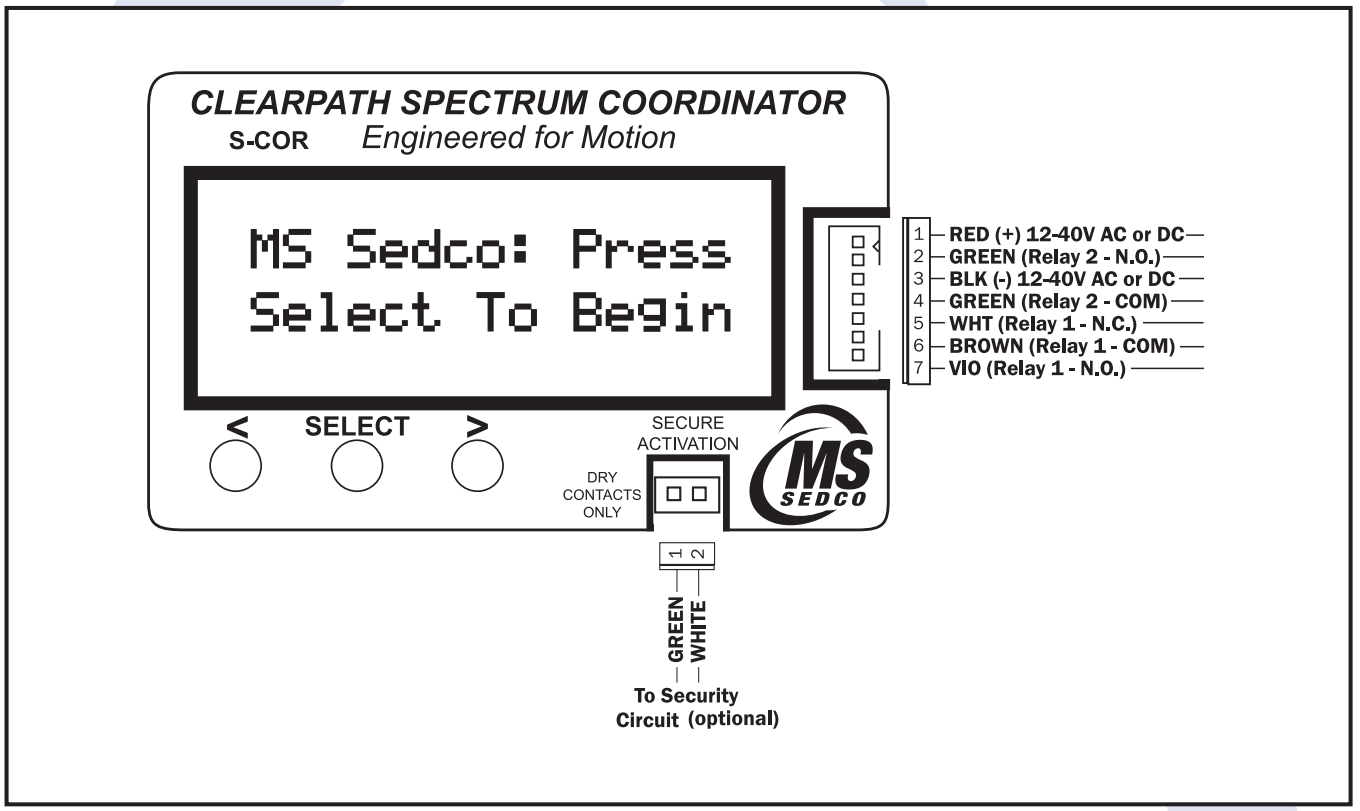
Warranty
A one year warranty is available from the manufacturer covering defects in materials and workmanship. Contact MS SEDCO for details.

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.

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S-COR WIRING DIAGRAM



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ENGINEERED FOR MOTION

ClearPath™ S-TRX-HH
Spectrum Transceiver Hand Held & Retrofit



Product Name
ClearPath™ S-TRX-HH
Spectrum Transceiver Hand Held & Retrofit

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

Product Description
BASIC USE
The S-TRX-HH Transceiver is a part of the ClearPath Spectrum Wireless System. When used in conjunction with the S-COR Coordinator, the S-TRX-HH functions in a similar role as traditional wireless transmitters, but this is where the similarities end. The Spectrum Wireless System provides several industry firsts:

- Digital two-way communication allows for greater security and ensures successful signal transmission between devices.
- LCD screen (S-COR) for quick and easy programming.
- Upon switch activation, the Transceivers communicate valuable information that is displayed on the LCD screen including: device ID, signal strength and battery monitoring.
- Pairing of multiple Transceivers with Coordinators.
- Two built-in outputs (S-COR).
- 3 year battery life (S-TRX-HH).

ClearPath Spectrum products operate at 2.4 GHz, making the wave length more than 5 times shorter than commonly-used frequencies. Shorter waves pass through cracks and barriers easier, and transceivers will continue to attempt to contact the Coordinator until it receives an acknowledgement.

OPTIONS:
OPTIONS:

S-TRX-HH	=	**Hand-Held Spectrum Transceiver with Button**
S-TRX-12	=	**Spectrum Transceiver with 12" Wires for Connection to Products by Others**

DIMENSIONS
See Reverse

APPLICABLE STANDARDS
American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.

APPROVALS
FCC

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 one 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
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www.mssedco.com ■ custsvc@mssedco.com

ENGINEERED FOR MOTION

ClearPath™ S-TRX-V
2 Spectrum Transceivers with 1015 Square Mounting Box



Product Name
ClearPath™ S-TRX-V
2 Spectrum Transceivers with 1015 Square Mounting Box
(Pictured with 59V-H—Switches available separately or included in ClearPath Spectrum Kits)

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

Product Description
BASIC USE
The S-TRX-V Transceiver is a part of the ClearPath Spectrum Wireless System. When used in conjunction with the S-COR Coordinator, the S-TRX-V functions in a similar role as traditional wireless transmitters, but this is where the similarities end. The Spectrum Wireless System provides several industry firsts:

- Digital two-way communication allows for greater security and ensures successful signal transmission between devices.
- LCD screen (S-COR) for quick and easy programming.
- Upon switch activation, the Transceivers communicate valuable information that is displayed on the LCD screen including: device ID, signal strength and battery monitoring.
- Pairing of multiple Transceivers with Coordinators.
- Two built-in outputs (S-COR).
- 3 year battery life (S-TRX).

ClearPath Spectrum products operate at 2.4 GHz, making the wave length more than 5 times shorter than commonly-used frequencies. Shorter waves pass through cracks and barriers easier, and transceivers will continue to attempt to contact the Coordinator until it receives an acknowledgement.

OPTIONS:
OPTIONS:
S-TRX-V = 2 Spectrum Transceivers with 1015 Square Mounting Box.

DIMENSIONS
See Reverse

APPLICABLE STANDARDS
American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.

APPROVALS
FCC

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 one 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.

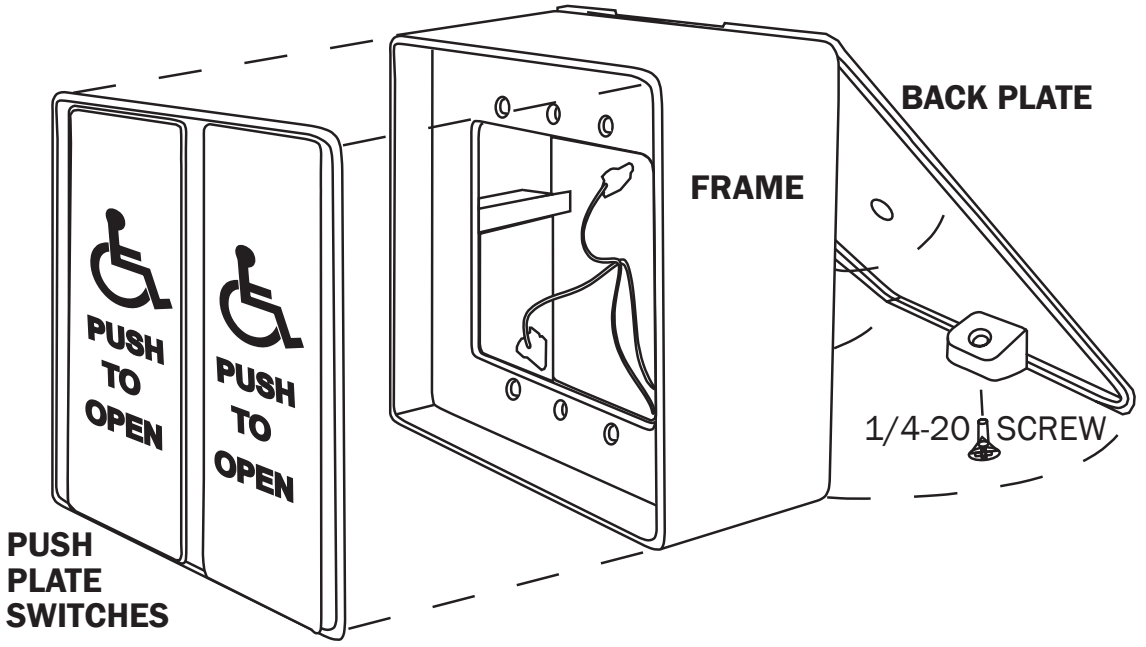
Technical Services
MS SEDCO's staff of factory trained sales and service personnel offer design assistance and technical support. Local distributors are also available to assist in selecting appropriate devices for specific uses and to provide onsite installation.

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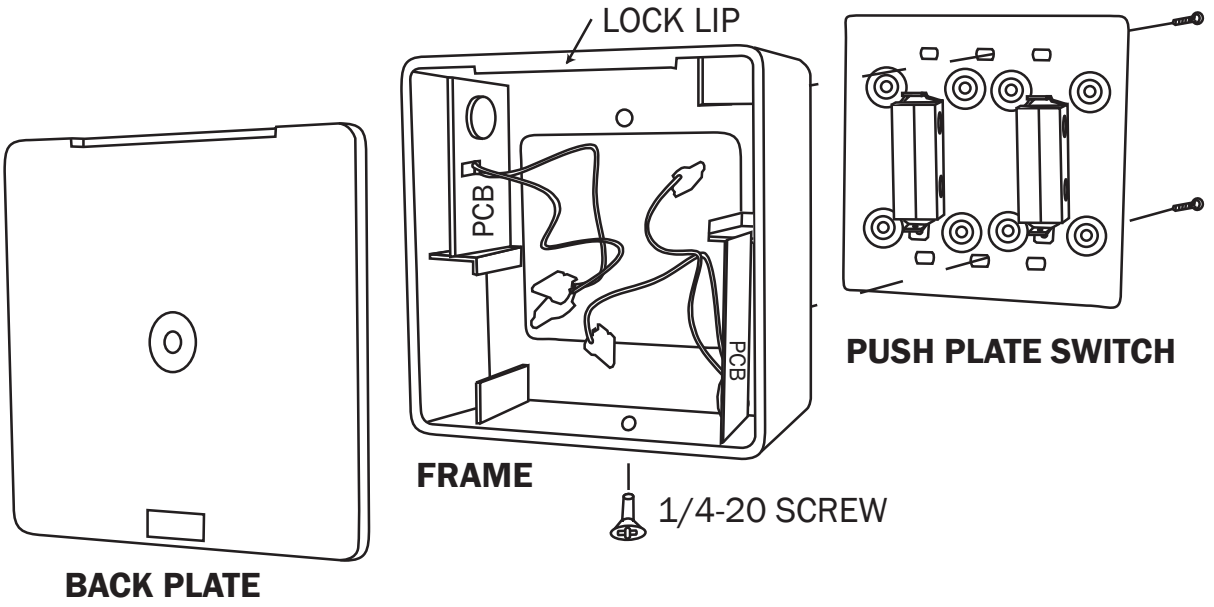
ClearPath™ S-TRX-V
2 Spectrum Transceivers with 1015 Square Mounting Box

ENGINEERED FOR MOTION

S-TRX-V (-R4, -R6, -J) TRANSCEIVER DIAGRAM



Front View - S-TRX-V Shown



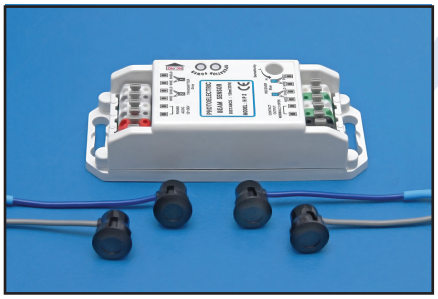
Rear View - S-TRX-V Shown

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MS SEDCO

ENGINEERED FOR MOTION

AccuGuard HP2
Modular Safety Beam System



Product Name
AccuGuard HP2
Modular Safety Beam System (pictured), Surface Mount Beams Also Available

Contact Information
MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

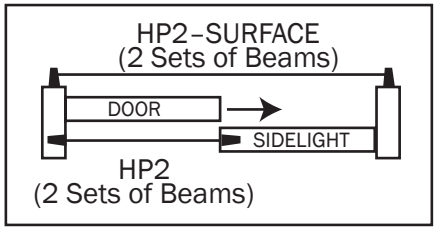
Product Description
BASIC USE
The AccuGuard HP2 is an active infrared 2-beam safety system. This modular system consists of a separate Control Module, two Transmitter Beam Heads with cables and two Receiver Beam Heads with cables. The beam heads are available for recess mounting and can be ordered with surface mount housings (HP2-SURFACE).

When a beam is interrupted, the Control Module signals the door to open. In the event of a power loss to the AccuGuard HP2, it will also signal the door to open, thus providing a failsafe system.

The AccuGuard HP2 can be used in both new and retrofit installations with minimal door preparation. The beam heads are available for recess mounting into a 1/2" diameter hole or for surface mounting to any surface. Wiring instructions are printed on the control module housing and the software provides automatic set up.

Meet ANSI A156.10 safety requirements for automatic sliding doors by installing a HP2-SURFACE on the sliding door panel side of the entrance and a HP2 on the fixed sidelight side of the entrance.

ANSI A156.10 SLIDING DOOR SAFETY BEAM REQUIREMENTS



Technical Data
- Intelligent Control Module automatically programs itself for one or two beam sets (two sets come with unit)
- Microprocessor controlled to minimize interference with other equipment or voltage oscillations
- Several units can be used in close proximity to each other
- Fuse protected and compact
- Automatic beam sensitivity adjustment on openings 36" and wider
- Independent sensitivity adjustment for each beam at the control module on openings less than 36"
- Beam range 0-16 ft.
- Excellent resistance to natural and artificial light sources, water and humidity
- No false activation from rain or insects
- Beam head cables are plugable allowing for easy replacement
- Wire connections at the control module are external screw-type terminals
- Cables are color coded: transmitter=gray, receiver=blue

SPECIFICATIONS

Model	HP2 & HP2-SURFACE
Detection Method	Active Infrared Beam Interrupt
Detection Range	6 to 32 feet
Power Requirements	12V to 24V AC or DC (No Polarity Requirements)
Light Resistance	Sun—150,000 LUX Artificial—50,000 LUX
Power Consumption	Standby 75mA, Active 100mA
Relay Contacts	Form C Contacts Rated @ 1 Amp (Resistive Loads Only)
Relay Activation Time	10 ms
Relay Hold Time	500 ms
Status LED	Solid Red = Beam Continuity Flashing Red = Beam Interrupt
Temperature	-4°F to 140°F (-20°C to 60°C)

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AccuGuard HP2
Modular Safety Beam System

Mounting

Control Module: Any Available Door Header Space

Recessed Mount Beam Heads: 1/2" Dia. Hole 1" Deep

Surface Mount Beam Heads: Any Available Surface

APPLICABLE STANDARDS

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

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

MS SEDCO, Inc. guarantees this product to be free from manufacturing defects for one year from date of installation. Unless MS SEDCO is notified of the date of installation, the warranty will be in effect for one year from the date of shipment from our factory. If, during the first year, this product fails to operate and has not been tampered with or abused, the unit can be returned prepaid to the factory and be repaired free of charge. After one year, the unit will be repaired for a nominal service charge. **Limited warranty is in lieu of all other warranties, expressed or implied, including any implied warrantability of merchantability. No representative or person is authorized to assume for MS SEDCO any other liability in connection with the sale of our products. All warranties are limited to the duration of this written limited warranty. In no event shall MS SEDCO be liable for any special, incidental, consequential or other damage arising from any unclaimed breach of warranty as to its products or services.**

Maintenance

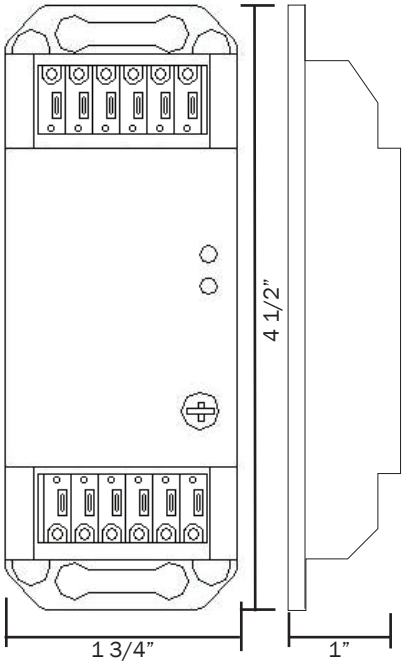
MS SEDCO recommends that all maintenance and adjustments be performed by an AAADM Certified Technician.

Technical Services

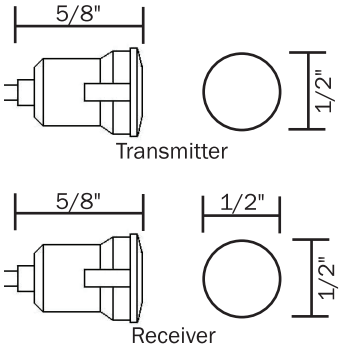
MS SEDCO's staff of factory trained sales and service personnel offer design assistance and technical support. Local distributors are also available to assist in selecting appropriate devices for specific uses and to provide onsite installation.

DIMENSIONS

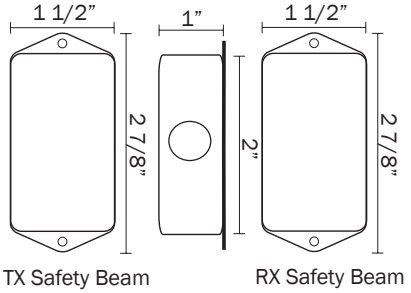
Control Module



Beam Heads—Recess Mount



Beam Heads—Surface Mount



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ENGINEERED FOR MOTION

AccuGuard GD11S
Surface Mount Safety Beam



Product Name
AccuGuard GD11S
Surface Mount Safety Beam

Contact Information
MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

Product Description
BASIC USE
The GD11S is a self-contained surface mount active infrared safety beam system for interior or exterior use on any automatic pedestrian door, industrial door or gate.

When the infrared beam is interrupted, the GD11S' relay output signals an industrial door or gate control to open, stop or reverse. On pedestrian swing doors, the GD11S is mounted on the guide rails. When the door is closing and the overhead safety sensor is locked out, interrupting the GD11S beam will bring this sensor protecting the swing side of the door back into the safety circuit thus inhibiting the door from reopening. This is now a requirement of ANSI A156.10 2005.

In the event of a power loss to the GD11S, the relay changes state (failsafe). The GD11S can be ordered with the GDB quick mounting brackets for easy installation on industrial doors and gates.

Technical Data
- Economical
- Easy To Install and Maintain
- Simple To Align
- 12V To 24V AC or DC Operation
- Pulsed IR Emitter For High Immunity To Ambient Light
- Built-In Time Delay
- Weather Resistant Enclosure
- Rugged Construction
- Quick Mount GDB Bracket Available

SPECIFICATIONS

Model	GD11S
Physical Dimensions	5 3/4"L x 1 1/2"W x 1 1/2"D
Detection Method	Active Infrared Beam Interrupt
Detection Range	0 to 40 feet
Power Requirements	12V to 24V AC or DC
Current Draw	
RX	75mA @ 12V DC
TX	60mA @ 12V DC
RX	100mA @ 24V DC
TX	60mA @ 24V DC
Power Consumption	
RX	2.4 Watts Max. @ 24V DC
TX	1.5 Watts Max. @ 24V DC
Relay Contacts	Form C Contacts Rated @ 1 Amp
Relay Activation Time	0.05 seconds
Relay Hold Time	0.5 to 5.0 sec.
Temperature	0°F to 140°F (-18°C to 60°C)

DIMENSIONS
See Reverse

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

Installation
Refer to MS SEDCO Installation Instructions.

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

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

Warranty
MS SEDCO, Inc. guarantees this product to be free from manufacturing defects for one year from date of installation. Unless MS SEDCO is notified of the date of installation, the warranty will be in effect for one year from the date of shipment from our factory. If, during the first year, this product fails to operate and has not been tampered with or abused, the unit can be returned prepaid to the factory and be repaired free of

AccuGuard GD11S
Surface Mount Safety Beam

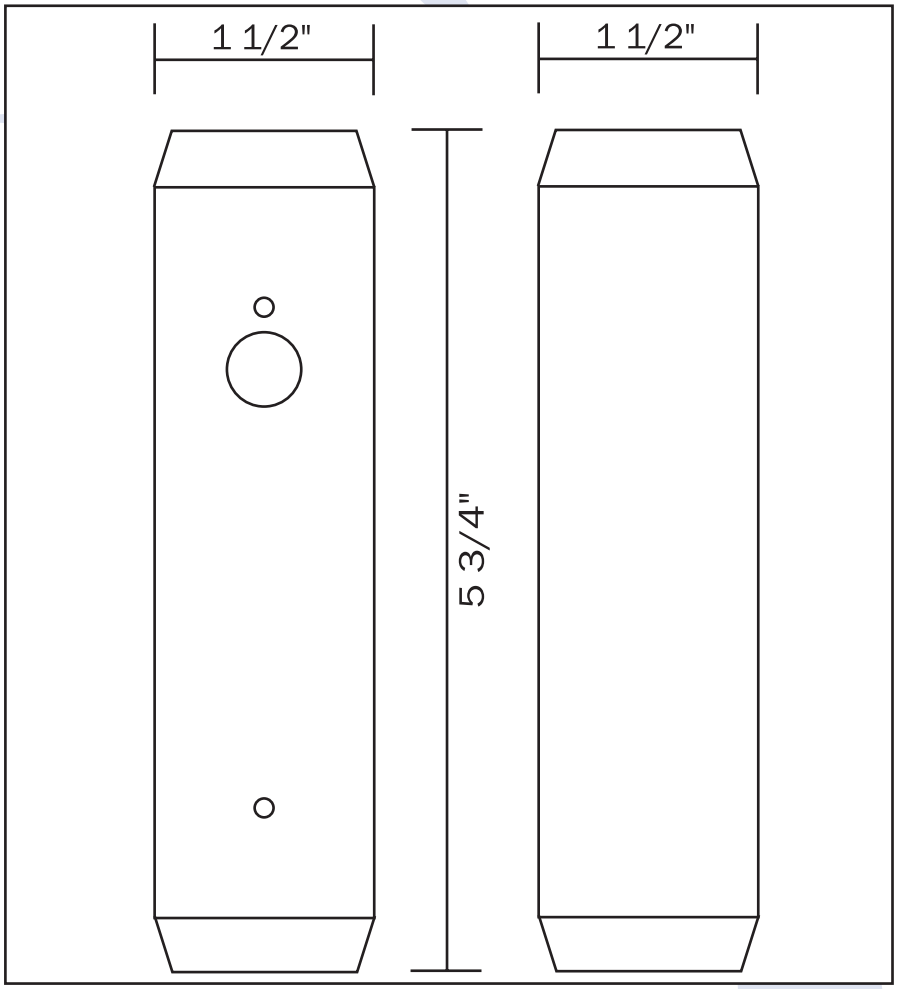
ENGINEERED FOR MOTION

Warranty (continued)
charge. After one year, the unit will be repaired for a nominal service charge. **Limited warranty is in lieu of all other warranties, expressed or implied, including any implied warrantability of merchantability. No representative or person is authorized to assume for MS SEDCO any other liability in connection with the sale of our products. All warranties are limited to the duration of this written limited warranty. In no event shall MS SEDCO be liable for any special, incidental, consequential or other damage arising from any unclaimed breach of warranty as to its products or services.**

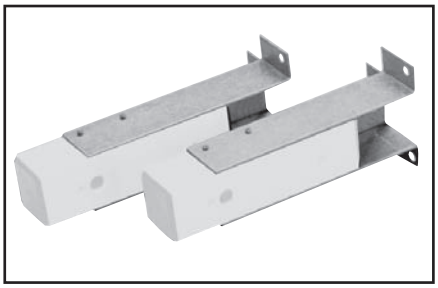
Maintenance
MS SEDCO recommends that all maintenance and adjustments be performed by an AAADM Certified Technician.

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.

DIMENSIONS



GDB BRACKET



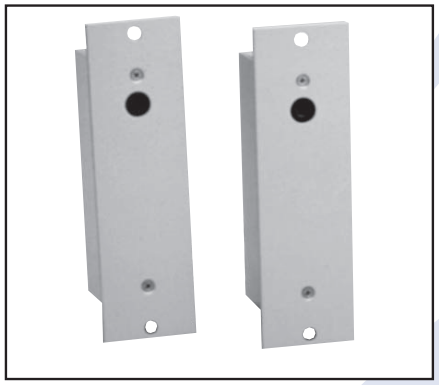
Ordering Options:
GD11-GDB
(Includes GD11S & GDB)
GD11S Only
GDB Only

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ENGINEERED FOR MOTION

AccuGuard DB11
Recess Mount Safety Beam



Product Name
AccuGuard DB11
Recess Mount Safety Beam

Contact Information
MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

Product Description
BASIC USE
The DB11 is a self-contained recess mount active infrared safety beam system for use on any automatic door.

When the infrared beam is interrupted, the DB11's relay output signals an automatic sliding door control to open or reverse when closing. The DB11 can be recess mounted into tubular guide rails on pedestrian swing doors. When the door is closing and the overhead safety sensor is locked out, interrupting the DB11 beam will bring this sensor protecting the swing side of the door back into the safety circuit thus inhibiting the door from reopening. This is now a requirement of ANSI A156.10 2005.

In the event of a power loss to the DB11, the relay changes state (failsafe).

Technical Data
- 12V to 24V AC or DC Operation
- Pulsed IR Emitter For High Immunity To Ambient Light
- Form C Relay (N.O. or N.C.)
- Recessed (Flush) Mounting
- Variable Time Delay
- Easy To Align
- Molex Connectors Provided For Easy Wiring

SPECIFICATIONS

Model	DB11
Physical Dimensions	5"L x 1 1/2"W x 1 1/2"D
Detection Method	Active Infrared Beam Interrupt
Detection Range	0 to 40 feet
Power Requirements	12V to 24V AC or DC
Current Draw	
RX	75mA @ 12V DC
TX	60mA @ 12V DC
RX	100mA @ 24V DC
TX	60mA @ 24V DC
Power Consumption	
RX	2.4 Watts Max. @ 24V DC
TX	1.5 Watts Max. @ 24V DC
Relay Contacts	Form C Contacts Rated @ 1 Amp
Relay Activation Time	0.05 seconds
Relay Hold Time	0.5 to 5.0 sec.
Temperature	0°F to 140°F (-18°C to 60°C)

DIMENSIONS
See Reverse

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

Installation
Refer to MS SEDCO Installation Instructions.

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

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

Warranty
MS SEDCO, Inc. guarantees this product to be free from manufacturing defects for one year from date of installation. Unless MS SEDCO is notified of the date of installation, the warranty will be in effect for one year from the date of shipment from our factory. If, during the first year, this product fails to operate and has not been tampered with or abused, the unit can be returned prepaid to the factory and be repaired free of charge. After one year, the unit will be repaired for a nominal service charge. **Limited warranty is in lieu of all other warranties, expressed or implied, including**

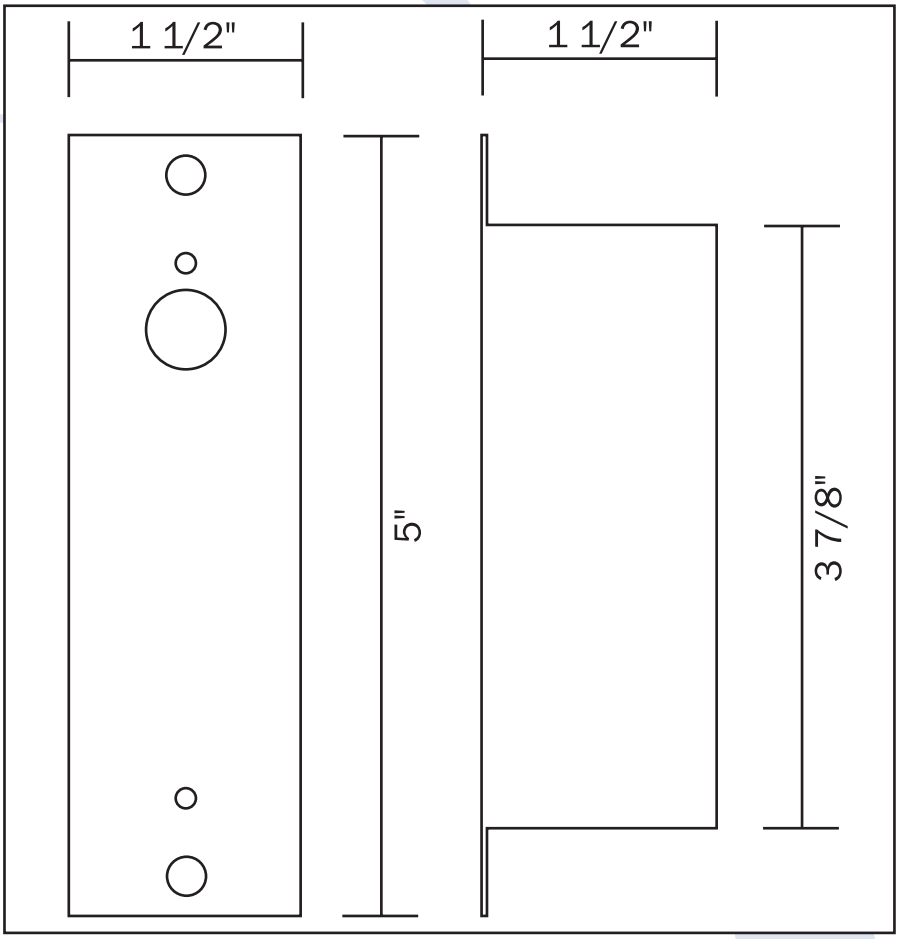
ENGINEERED FOR MOTION

Warranty (continued)
any implied warrantability of merchantability. No reqresentative or person is authorized to assume for MS SEDCO any other liability in connection with the sale of our products. All warranties are limited to the duration of this written limited warranty. In no event shall MS SEDCO be liable for any special, incidental, consequential or other damage arising from any unclaimed breach of warranty as to its products or services.

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.

DIMENSIONS

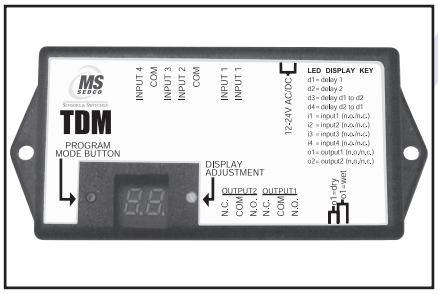


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ENGINEERED FOR MOTION

The Commander™ Series

TDM Universal Time Delay Module



Product Name
TDM
Universal Time Delay Module

Contact Information
MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

Product Description
BASIC USE
The TDM is a multipurpose micro-processor based timing module that can be used for a variety of applications. Its unique design and open architecture allows the TDM to be used in any type of application that requires timing control of up to two outputs with up to four inputs.

Common Applications include:
- Using the TDM to provide a simple time delay of 0-99 seconds.
- Using the TDM as a make/ break relay to eliminate mechanical binding of the electrical locking mechanism on an automatic door. The make relay can even be configured as a wet output to directly apply power to the electric locking device.
- Using the TDM to sequence vestibule doors. One unit is capable of sequencing the vestibule doors from both directions.

The four inputs on the TDM allow sequencing or independent operation of the two outputs.
- Input 1 will sequence Output 1 then 2.
- Input 2 will sequence Output 2 then 1.
- Input 3 will operate Output 1 independently.
- Input 4 will operate Output 2 independently.

Both outputs on the TDM are programmable for “on time” duration as well as the delay time between the two outputs from 0 to 99 seconds

Technical Data
SPECIFICATIONS

Model	TDM
Power	12 to 24 V AC or DC
Power Consumption	2W Maximum
Output Contact	Form C, Rated At 3 Amps
Temperature	-22°F to 158°F (-30°C to 70°C)
Color	Flat Black
Enclosure	ABS Plastic
Weight	0.25 lb.
Physical Size	4 3/4"L x 2 1/4"W x 3/4"H

Special Functions
Wet Output
- Allows installer to apply power directly to an electric locking device (eliminating need for separate transformer)

Pushbutton Fault Indicator
- Provides valuable diagnostic information to installer

Preprogrammable
- Easily set-up on site or in advance using the LED Display
- Settings are stored in memory so TDM remembers settings (even after power failure)

APPLICABLE STANDARDS
American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.

Installation
SETUP AND ADJUSTMENT
The TDM is easily mounted in the door header or control box. The LED Display allows for ease in programming. The installer uses the Program Mode Button to adjust each of the four time delays and select the input and output settings.

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 distributor.

The Commander™ Series

TDM Universal Time Delay Module

MS SEDCO

ENGINEERED FOR MOTION

Warranty

MS SEDCO, Inc. guarantees this product to be free from manufacturing defects for one year from date of installation. Unless MS SEDCO is notified of the date of installation, the warranty will be in effect for one year from the date of shipment from our factory. If, during the first year, this product fails to operate and has not been tampered with or abused, the unit can be returned prepaid to the factory and be repaired free of charge. After one year, the unit will be repaired for a nominal service charge. **Limited warranty is in lieu of all other warranties, expressed or implied, including any implied warrantability of merchantability. No representative or person is authorized to assume for MS SEDCO any other liability in connection with the sale of our products. All warranties are limited to the duration of this written limited warranty. In no event shall MS SEDCO be liable for any special, incidental, consequential or other damage arising from any unclaimed breach of warranty as to its products or services.**

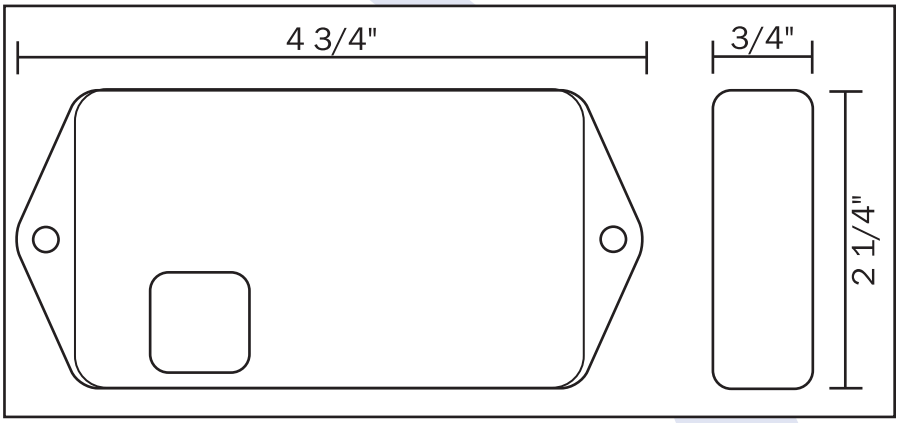
Maintenance

MS SEDCO recommends that all maintenance and adjustments be performed by an AAADM Certified Technician.

Technical Services

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DIMENSIONS



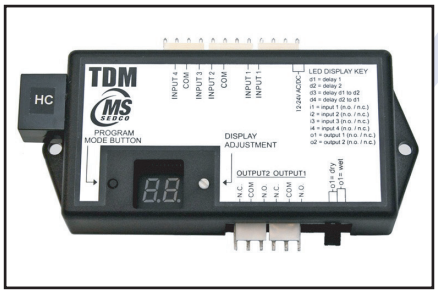
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ENGINEERED FOR MOTION

The Commander™ Series

TDM-HC

High Current Universal Time Delay Module



Product Name

TDM-HC

High Current Universal Time Delay Module

Contact Information

MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

Product Description

BASIC USE

The TDM-HC is a multipurpose microprocessor based timing module that can be used for a variety of applications. Its unique design and open architecture allows the TDM-HC to be used in any type of application that requires timing control of up to two outputs with up to four inputs.

The first output of the TDM-HC has a capacity of 20 amps, making it compatible with every electronic locking device, including electric-latch-retraction exit devices.

Common Applications include:

- Using the TDM-HC to provide a simple time delay of 0-99 seconds.
- Using the TDM-HC as a make/ break relay to eliminate mechanical binding of the electrical locking mechanism on an automatic door.
- Using the TDM-HC to sequence vestibule doors. One unit is capable of sequencing the vestibule doors from both directions.

The four inputs on the TDM-HC allow sequencing or independent operation of the two outputs.

- Input 1 will sequence Output 1 then 2.
- Input 2 will sequence Output 2 then 1.
- Input 3 will operate Output 1 independently.
- Input 4 will operate Output 2 independently.

Both outputs on the TDM are programmable for “on time” duration as well as the delay time between the two outputs from 0 to 99 seconds

Technical Data

SPECIFICATIONS

Model	TDM-HC
Power	12 to 24 V AC or DC
Power Consumption	2W Maximum
Output Contact	Form C, Rated At 20 Amps
Temperature	-22°F to 158°F (-30°C to 70°C)
Color	Flat Black
Enclosure	ABS Plastic
Weight	0.25 lb.
Physical Size	5"L x 2 1/8"W x 3/4"H

Special Functions

Pushbutton Fault Indicator

- Provides valuable diagnostic information to installer

Preprogrammable

- Easily set-up on site or in advance using the LED Display
- Settings are stored in memory so TDM-HC remembers settings (even after power failure)

APPLICABLE STANDARDS

American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.

Installation

SETUP AND ADJUSTMENT

The TDM-HC is easily mounted in the door header or control box. The LED Display allows for ease in programming. The installer uses the Program Mode Button to adjust each of the four time delays and select the input and output settings.

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 distributor.

The Commander™ Series

TDM-HC

High Current Universal Time Delay Module

ENGINEERED FOR MOTION

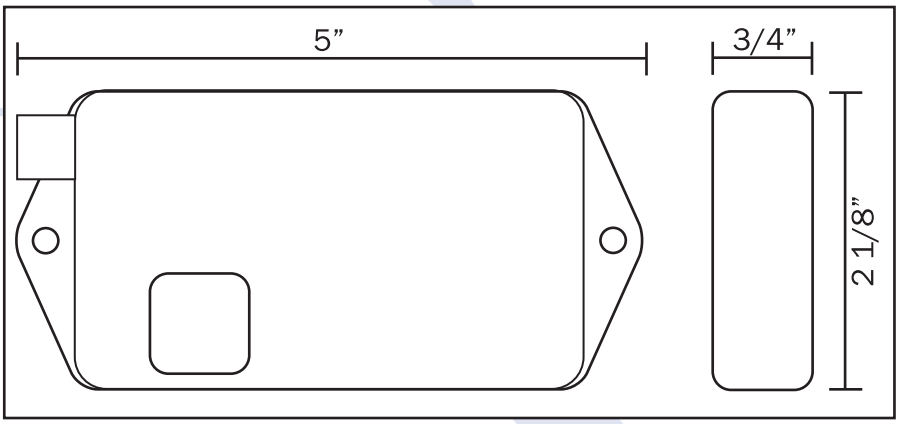
Warranty

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Technical Services

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DIMENSIONS



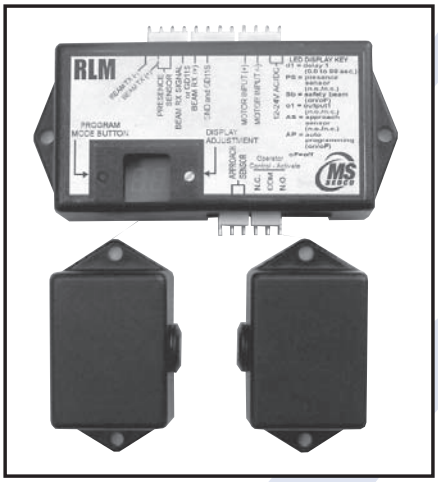
8701 Castle Park Drive ■ Indianapolis, Indiana 46256 ■ Telephone: (317) 842-2545 ■ Fax: (317) 849-3387
www.mssedco.com ■ custsvc@mssedco.com

MS SEDCO

ENGINEERED FOR MOTION

The Commander™ Series

RLM Relay Lockout Module with Safety Beams



Product Name

RLM

Relay Lockout Module with Safety Beams

Contact Information

MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

Product Description

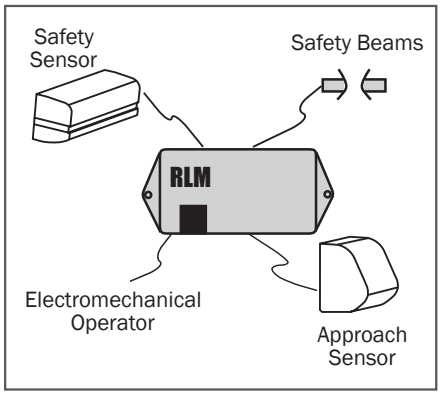
BASIC USE

The RLM is a microprocessor based relay lockout module with safety beams designed to meet the ANSI A156.10 2005 requirements that one-way traffic power operated pedestrian swing doors (typically supermarket doors) have an additional safety device installed when the overhead safety sensor is prevented from providing a safety signal during the closing cycle.

The RLM is equipped with Intelligent Door Position™ monitoring circuitry that will automatically identify a swing door's open and closed positions and determine its closing time. The RLM then controls the approach sensor, overhead safety sensor and safety beams. The proprietary software monitors the door's position and controls when to inhibit the signal from the overhead safety sensor during the closing cycle while simultaneously monitoring the safety beams and when to prevent reactivaiton of the approach sensor. By providing a single-source control for the approach sensor, overhead safety sensor and safety beams, the RLM streamlines installations by eliminating products and speeds up installation time by ending "trial and error" manual adjustments.

The RLM can also be used on operators not equipped with a safety circuit providing a more economical upgrade alternative to replacing expensive operator controls.

The RLM is for use on electromechanical operators only.



Technical Data

SPECIFICATIONS

Model	RLM
Power	12 to 24 V AC or DC
Power Consumption	<1W
Output Contact	Form C, Rated At 3 Amps
Temperature	-22°F to 158°F (-30°C to 70°C)
Color	Flat Black
Enclosure	ABS Plastic
Weight	0.25 lb.
Physical Size	
Control Module:	4 3/4"L x 2 1/4"W x 3/4"H
Safety Beams:	2 7/8"L x 1 1/2"W x 1"H

APPLICABLE STANDARDS

American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.

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 distributor.

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The Commander™ Series

RLM

Relay Lockout Module with Safety Beams

ENGINEERED FOR MOTION

Warranty

MS SEDCO, Inc. guarantees this product to be free from manufacturing defects for one year from date of installation. Unless MS SEDCO is notified of the date of installation, the warranty will be in effect for one year from the date of shipment from our factory. If, during the first year, this product fails to operate and has not been tampered with or abused, the unit can be returned prepaid to the factory and be repaired free of charge. After one year, the unit will be repaired for a nominal service charge. **Limited warranty is in lieu of all other warranties, expressed or implied, including any implied warrantability of merchantability. No representative or person is authorized to assume for MS SEDCO any other liability in connection with the sale of our products. All warranties are limited to the duration of this written limited warranty. In no event shall MS SEDCO be liable for any special, incidental, consequential or other damage arising from any unclaimed breach of warranty as to its products or services.**

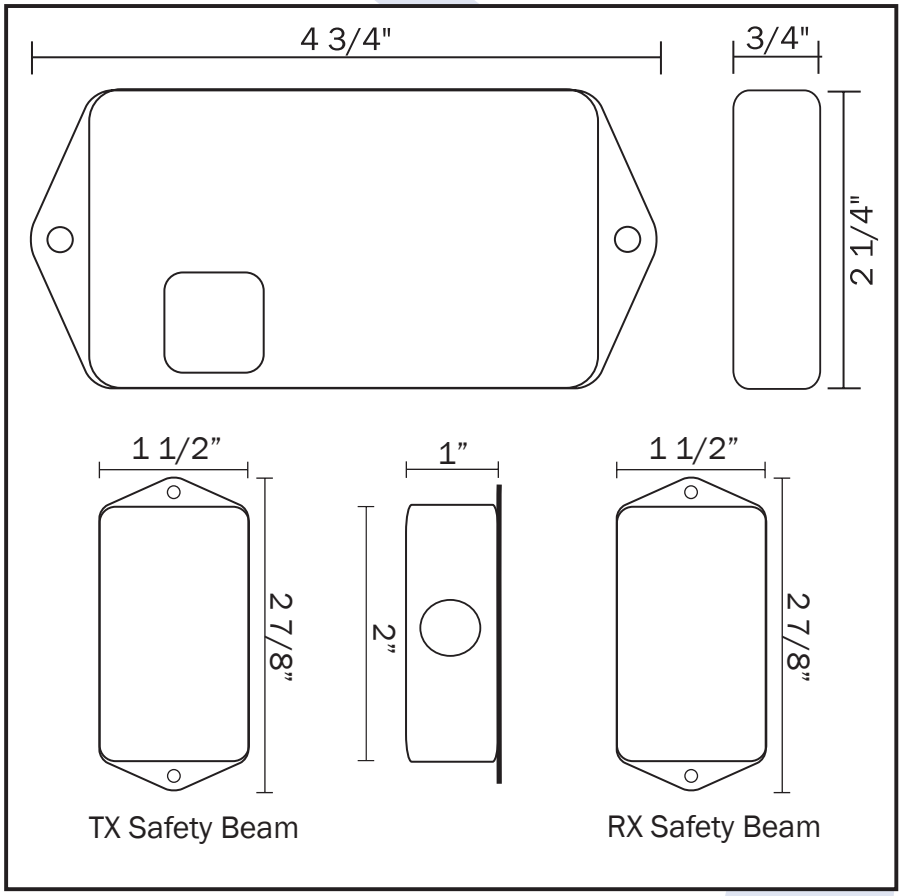
Maintenance

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.

DIMENSIONS

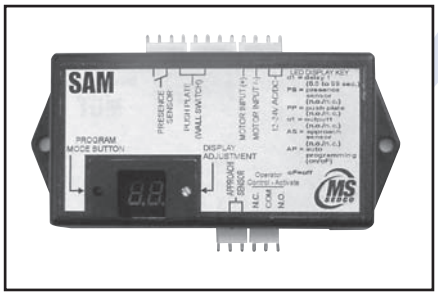


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ENGINEERED FOR MOTION

The Commander™ Series

SAM Secondary Activation Module



Product Name
SAM
Secondary Activation Module

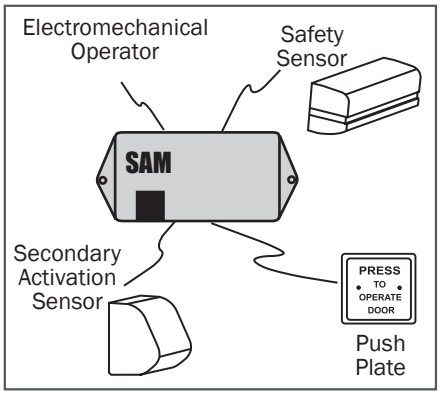
Contact Information
MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

Product Description
BASIC USE
The SAM is a microprocessor based secondary activation timing module designed to meet the ANSI A156.10 2005 requirements that knowing act power operated pedestrian swing doors (typically hospital corridor doors) include an approach sensor on the non-swing side of the door that is only active while the door is open or in its closing cycle.

The SAM is equipped with Intelligent Door Position™ monitoring circuitry that will automatically identify a swing door's open and closed positions and determine its closing time. The SAM then controls the push plate wall switch (knowing act), approach sensor (secondary activation) and overhead safety sensor. The proprietary software monitors the door's position and controls when to turn on and off the approach sensor after the push plate is activated while simultaneously monitoring the overhead safety sensor and locking out its signal during the door's closing cycle. By providing single source control for the push plate, secondary activation sensor and overhead safety sensor, the SAM streamlines installations by eliminating products and speeds up installation time by ending "trial and error" manual adjustments.

The SAM can also be used on operators not equipped with a safety circuit providing a more economical upgrade alternative to replacing expensive operator controls.

The SAM is for use on electromechanical operators only.



Technical Data
SPECIFICATIONS

Model	SAM
Power	12 to 24 V AC or DC
Power Consumption	<1W
Output Contact	Form C, Rated At 3 Amps
Temperature	-22°F to 158°F (-30°C to 70°C)
Color	Flat Black
Enclosure	ABS Plastic
Weight	0.25 lb.
Physical Size	4 3/4"L x 2 1/4"W x 3/4"H

APPLICABLE STANDARDS
American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19.

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 distributor.

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Warranty

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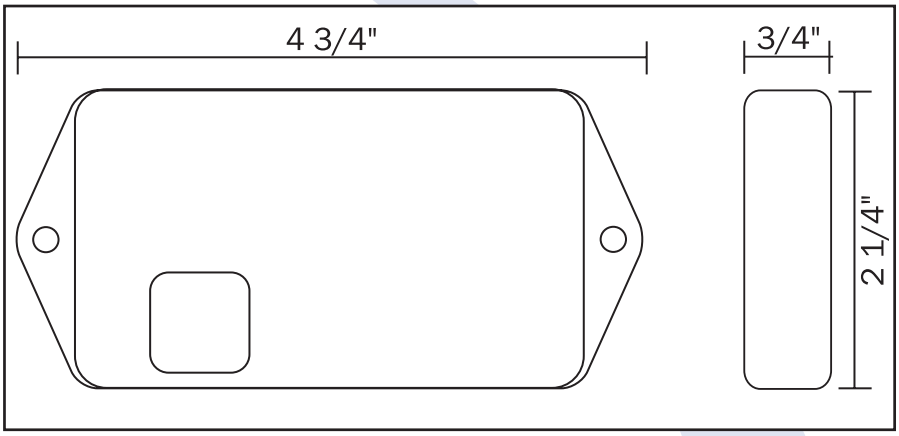
Maintenance

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.

DIMENSIONS



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MS SEDCO

ENGINEERED FOR MOTION

The Commander™ Series

PTM

Privacy Timing Module



Product Name

PTM

Privacy Timing Module

Contact Information

MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (317) 842-2545
www.mssedco.com

Product Description

BASIC USE

The PTM is a timing module that allows users to control an automatic door operator for a room where privacy is a concern, such as a washroom, restroom, clean room, or photo development room. From the outside of the room, users are able to activate the door. Once inside, users are able to lock the door which prevents access from the outside "push to open" button. When egress is desired, the user presses an inside "push to open" button which deactivates the lock and activates the door. A keyswitch override is present on the exterior, as well as LEDs to indicate if the room is occupied. Green indicates available while red indicates occupied.

The delay time between deactivating the lock and activating the door, as well as the "on time" for door activation are fully programmable.

Technical Data

SPECIFICATIONS

Model	PTM
Input Power	12-24V AC or DC
Power Consumption	2 W Maximum
Output Contacts	Form C, Rated at 3 Amps
Relay Contact Rating	3A:120V AC; 3A:60V DC
Temperature	-22°F to 158°F (-30°C to 70°C)
Weight	<0.25 lb.

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 distributor.s

Warranty

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Maintenance

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Technical Services

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The Commander™ Series

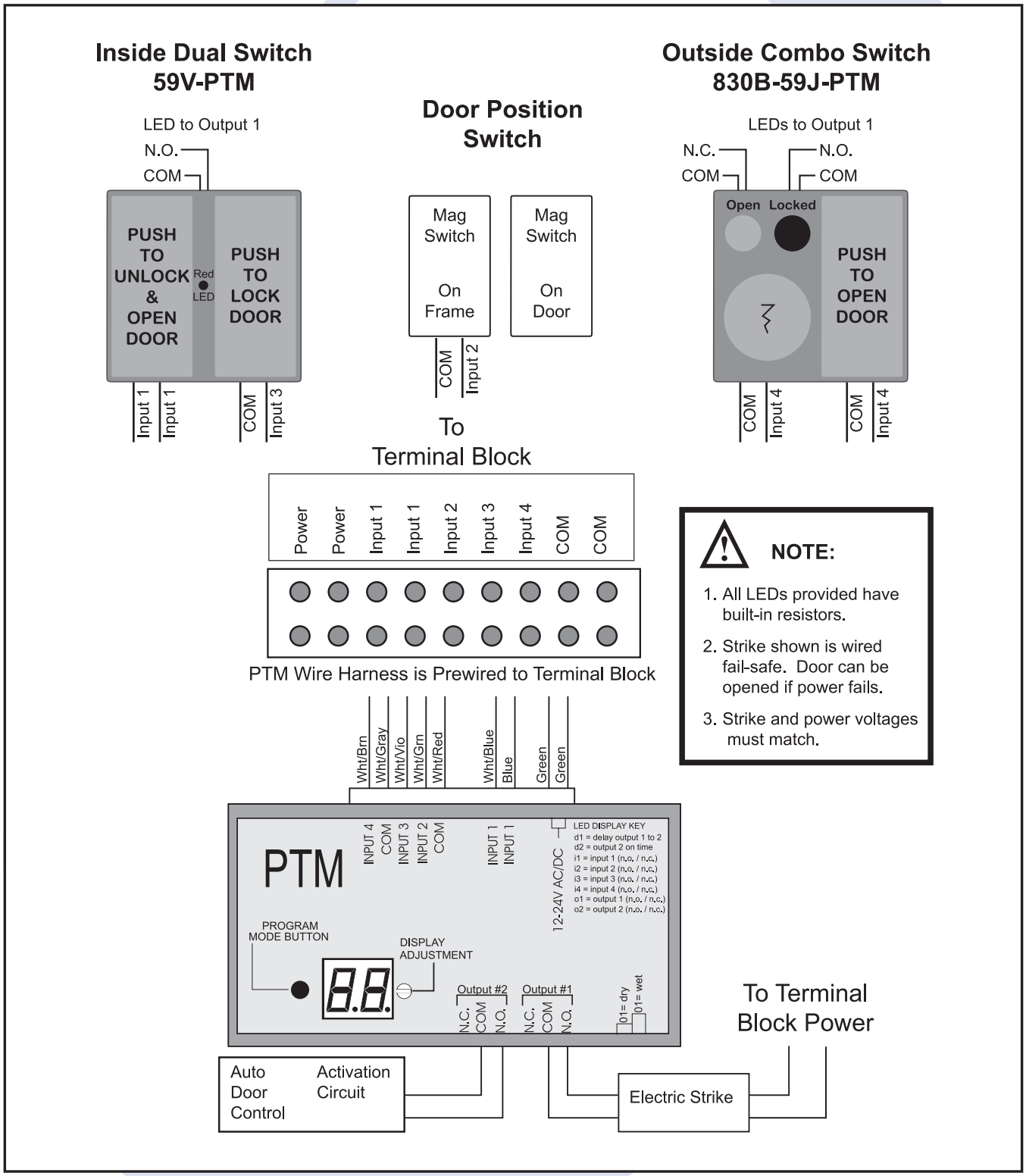
PTM

Privacy Timing Module

MS SEDCO

ENGINEERED FOR MOTION

PTM Installation Diagram



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MS SEDCO

Engineered for Motion

ANSI Compliant
Door Safety Decals

Product Name
ANSI Compliant
Door Safety Decals

Contact Information
MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
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www.mssedco.com

Product Description
Self-sticking, exterior grade decals meet the requirements of ANSI A156.10 & A156.19.

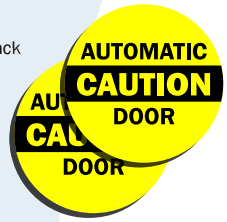
Two sided decals are depicted with opposite side partially shown.

DOOR DECALS: ENGLISH

MSS-1
Blue & White



MSS-2
Yellow & Black



MSS-3
Green, Black & White



MSS-4
Red, Black & White
Green, Black & White



MSS-5
White & Blue



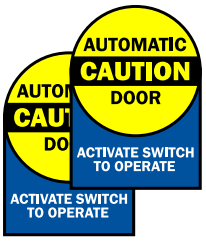
MSS-6
Red & White



MSS-13
Red & White



MSS-15
Yellow, Black & Blue



DOOR DECALS: ENGLISH/SPANISH

MSS-7
Blue & White



MSS-8
Yellow & Black



MSS-9
Green, Black & White



MSS-10
Red, Black & White
Green, Black & White



MSS-11
White & Blue



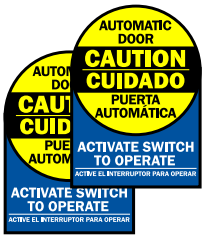
MSS-12
Red & White



MSS-14
Red & White



MSS-16
Yellow, Black & Blue



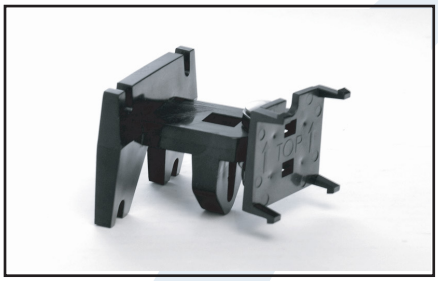
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Email: custsvc@mssedco.com
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ACCESSORY #1



Product Name
MS-BDB Optional Mounting Bracket

Product Description
The MS-BDB is an optional mounting device that allows the installer to elevate and rotate the microstar-M for special configurations.

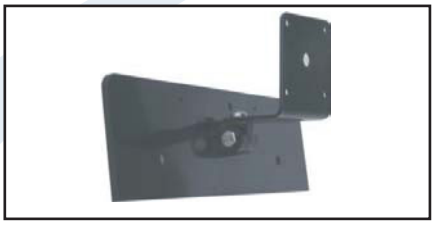
ACCESSORY #2



Product Name
MSRC (Optional Rain Cover)

Product Description
The MSRC is a rain cover designed for use with the microStar-M sensors on installations that require protection from direct rainfall. The MSRC is made of black polycarbonate plastic..

ACCESSORY #3



Product Name
DH97-BDB Bracket/Backplate
DH97-MP Mounting Plate without Swivel Bracket

Product Description
BASIC USE
The DH97-BDB is an optional bracket used to swivel mount the DH97 sensor for unique or industrial door applications.

The DH97-MP is an optional mounting plate that will adapt the DH97 for mounting to a 1 3/4" door header.

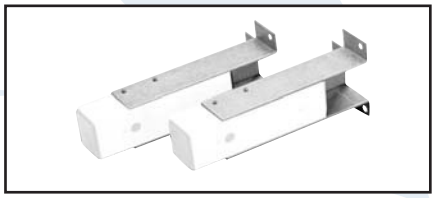
ACCESSORY #4



Product Name
DHRC Rain Cover

Product Description
BASIC USE
The DHRC is a rain cover designed for use with the DH-series sensors on installations that require protection from direct rainfall. The DHRC is made of tinted plastic.

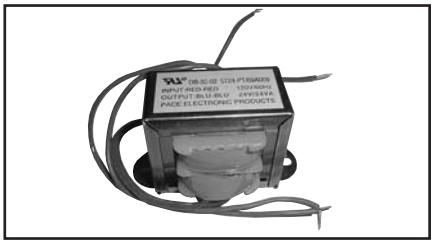
ACCESSORY #5



Product Name
GDB Bracket
(Pictured With GD11S)

Product Description
BASIC USE
The GDB is an optional stand-off type bracket designed to allow our GD11S surface mount beams to clear garage door track hardware (shown with GD11S).

ACCESSORY #6



Product Name
12024 Open Frame 24V AC Transformer

Product Description
BASIC USE
The 12024 transformer is a screw mount type transformer used to convert a 120V AC power supply to 24V AC low voltage.

Technical Data
- Screw Mount
- Open Frame
- 2 Wire Type
- Listing: UL recognized component

Specifications
Primary Rated Voltage/Frequency:
120V AC/60Hz

012015

No Load Secondary Voltage:	24V AC
Power:	24VA
Tolerance:	±-0.5V
Thermal Cutoff:	125°C, 2A, 250V
Weight:	1.46 lbs. (663g)
Size:	2 1/4"W x 2 1/4"D x 2"H

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

MS Sedco, Inc. guarantees this product to be free from manufacturing defects for one year from date of installation. Unless MS Sedco is notified of the date of installation, the warranty will be in effect for one year from the date of shipment from our factory. If, during the first year, this product fails to operate and has not been tampered with or abused, the unit can be returned prepaid to the factory and be repaired free of charge. After one year, the unit will be repaired for a nominal service charge. **Limited warranty is in lieu of all other warranties, expressed or implied, including any implied warrantability of merchantability, no representative or person is authorized to assume for MS Sedco any other liability in connection with the sale of our products. All warranties are limited to the duration of this written limited warranty. In no event shall MS Sedco be liable for any special, incidental, consequential or other damage arising from any unclaimed breach of warranty as to its products or services.**

Maintenance

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Technical Services

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Filing Systems

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

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