

**SARGENT®**

**ASSA ABLOY**

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# MPower 4000

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Low Energy Door Operator



COMPLIES WITH ADA ACCESSIBILITY GUIDELINES

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## MPower 4000 Door Operator

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### 10 Times ANSI/BHMA Testing Standards!

ANSI/BHMA A 159.19 standards require 300,000 power open cycles. Recently concluded testing has determined that MPower™ achieved 3,009,000 cycles exceeding the minimum standard by ten times.

The 4000 Series meets the need for barrier-free door control, satisfying the demands of most architectural barrier code requirements. Utilizing external controls for actuation, these units provide a powered opening with hydraulic closing, solving problems caused by heavy doors or high draft conditions.

#### Durability—Convenience—Innovation

MPower combines hydraulic pump/manifold with sophisticated electronics into a single device that automatically opens and closes doors with a low energy operating force. Constructed from heavy-duty cast aluminum, MPower fully complies with ADA and ANSI A156.19 requirements, including the low energy operator requirements of ADA's accessibility guidelines. The door operator is also UL and cUL listed for fire and smoke barrier assemblies.

MPower remains functional during power outages and can be operated by "Push and Go" activation or by optional push plates and RF devices. MPower is also simple and easy to install.

#### Product Applications:

- Executive offices
- ADA compliant dorm/hotel rooms, auxiliary entrances and accessible restrooms
- Retirement homes
- Educational facilities
- Office/warehouse corridor doors
- Fire/smoke ventilation doors
- Hospital corridor doors

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### On the Cover

4060 

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ASSA ABLOY, the global leader in door opening solutions

# Overview and Features


## Mpower 4000 Door Operator

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The SARGENT  is a low energy power door operator designed to automatically open and close doors with a lower energy opening force.

The following chart can be used as a guide for suitability of the door operator to various applications:

Operator Type	Common Applications	Safety Equipment Required
 Low Energy	LOW TO MODERATE TRAFFIC Executive Offices, ADA Dorm Rooms, ADA Hotel Rooms, Retirement Homes, Educational or Assisted Living Facilities, Office/Warehouse Corridor Doors, ADA Auxiliary Entrances, ADA Accessible Restrooms, Fire Doors, Smoke Ventilation Doors	Signage
Besam High Energy Door Operators or Equivalent	HIGH TRAFFIC Hospital Emergency Entrances & Operating Rooms, Airport Entrances, Large Office Building or Dept. Store Entrances	Guide Rails, Safety Mats, Sensors & Signage

The Americans with Disabilities Act (ADA) is a law administered by the U.S. Department of Justice. Its guidelines under ADA Regulation are detailed on the ADA website: [www.ada.gov](http://www.ada.gov).

The SARGENT Mpower fully complies with ADA and ANSI A156.19 requirements. It functions using an A/C motor and hydraulic pump to activate a heavy-duty hydraulic door closer controlled by an Electronic Limit Switch (ELS) circuit board that limits the degree of door swing.

Features include:

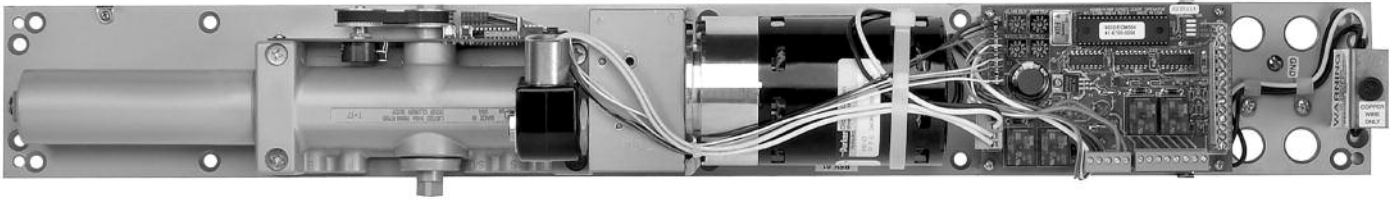
- Ease of installation and setup
  - Simple instructions
  - Uses push-button settings for door open and door close positions
- Application versatility and ease of adjustment
  - Push side or pull side mounting units available
  - Power Operator function can be configured during installation
  - Interfaces with electric hardware and integrates with access control systems
  - Blow Open Function for smoke ventilation
- Operates as mechanical surface closer during close cycles or if power is turned off
  - Critical for fire rated doors
  - Spring force provides the feel of a normal manual door closer
  - Door can be opened manually if desired
- Operation startup options
  - Wall switches
  - Radio frequency device
  - Push and Go
- Hold Open options
  - 0-30 seconds (5 seconds minimum required for ADA and ANSI A156.19)
  - Choice of indefinite hold open features
- Obstruction Detection
  - Door closes if it hits an obstruction while opening
  - Door re-opens once if it hits an obstruction while closing

# Functions, Electrical Data and Certifications

## Mpower 4000 Door Operator

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MP4000 Unit shown (without cover)



### Functions

- Heavy Duty series door closer
  - Adjustable spring power
  - Backcheck valve
  - Backcheck Position valve
  - Door Closing Speed valve
  - Latch Speed valve
  - Opening Speed Control valve
  - Opening Force Adjustment valve
- Low Ceiling or standard ceiling applications accommodated by ordering same handed unit
- Push Side or Pull Side applications
- Power Assist selector switch
- Push and Go selector switch
- Open/Close Obstruction Detection
- Motor startup delay adjustment
- Vestibule Function Delay adjustment (For sequencing two or more units)
- Door Hold Open Delay adjustment
- Single pole double throw (SPDT) relay output
- SPDT Relay Output time adjustment
- SPDT Alarm Output
- Blow Open Function for smoke ventilation
- Indefinite Hold Open function
- Presence Detector input
- 24 VDC (unregulated) @ 500 mA output
- Selector Mode Switch (3 position)
  - OFF – Turns unit off
  - ON – Turns unit on
  - HOLD OPEN – Activates the unit to the hold open position indefinitely

### Electrical Data

- Power Input: 120 VAC, 60 Hz (+10%, -15%)
- Current Draw 2 amp
- Auxiliary Output 24 VDC (unregulated) @ 500 mA
- SPDT relay output for controlling electric strikes or electric locks not to exceed 5 amp @ 24 VDC
- External 24 VDC regulated and filtered power supply needed for 56- latch retraction applications

### Certifications

- UL and cUL for use on fire and smoke barrier doors
- Meets requirements for UL10C and UBC 7.2 for positive pressure
- 2-year warranty (as per current price list, terms and conditions at time of purchase)
- Americans with Disabilities Act (ADA)
- BHMA 156.19 for Low Energy and Power Assist operated doors

## Low Energy and High Energy Door Operator Summary

Operator Type	Common Applications	Safety Equipment Required	Door Width*/Weight	Opening Speed (Seconds) Max	Hold Open Delay (Seconds) Min**	Closing Speed (Seconds) Min	Complete Cycle (Seconds) Min	Max. Force to Stop Door
Low Energy	Executive Offices, ADA Dorm Rooms, ADA Hotel Rooms, Retirement Homes, Educational or Assisted Living Facilities, Office/Warehouse Corridor Doors, ADA Auxiliary Entrances, ADA Accessible Restrooms, Fire Doors, Smoke Ventilation Doors	Signage	36"/125lbs (91cm / 56kg)	5	5	5	15	15lbs
			48"/200lbs (122cm / 91kg)	7	7	7	19	
High Energy	(HIGH TRAFFIC) Hospital Emergency Entrances & Operating Rooms, Airport Entrances, Large Office Building or Dept. Store Entrances	Guide Rails, Safety Mats, Sensors & Signage	36"/125lbs (91cm / 56kg)	3	3	3	11.5	40lbs
			48"/125lbs (122cm / 91kg)	3	3	3	13	

Note: \*Minimum and maximum door width for single door, hung on butt hinges

\*\*Maximum delay is 30 seconds

### Typical Door Traffic Categories

APPLICATION	DAILY AVERAGE	YEARLY AVERAGE	USAGE	OPERATOR	
Executive Office	Up to 100	Up to 22,000	Low	MP3000 or MP4000 Low Energy	
ADA Dorm Room					
ADA Hotel or Retirement Home Room					
Assisted Living Common Area Door					
Office/Warehouse Door					
ADA Auxiliary Entrance					
ADA Accessible Restroom					
Government/Public Restroom	300	108,000	Moderate	MP4000 Low Energy	
Hospital Corridor Door	600	220,000			
Office Building Entrance	1,200	450,000	Moderate		
Airport Entrance			High		Besam High Energy Door Operator
Large Office Building Entrance					
Large Dept. Store Entrance					

\* Represents 'powered' cycles

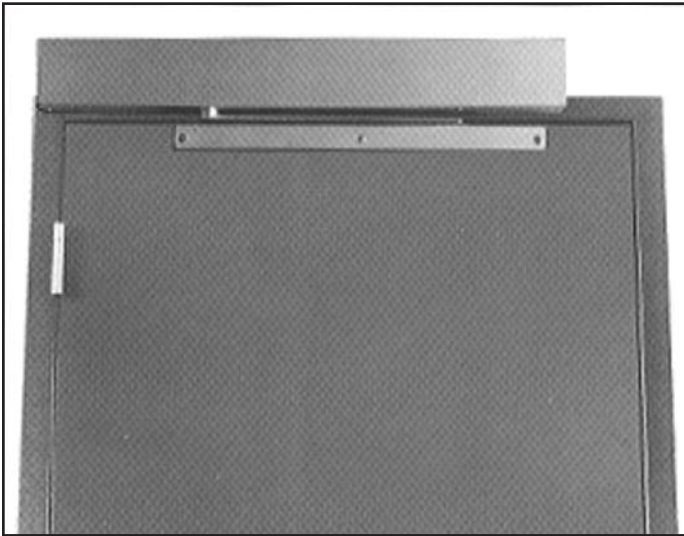
**Note: The above applications and data are examples for guidance only. Contact your ASSA ABLOY Door Security Solutions® Sales Representative or SARGENT Technical Consultant to confirm the suitability of your specification and system design.**

# 4060/4067 Operators for Pull Side

Mpower 4000 Door Operator

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### CL-4060 RIGID ARM AND SLIDE TRACK

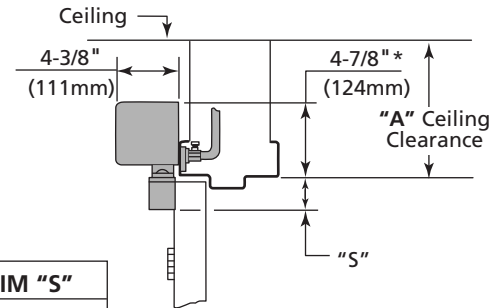
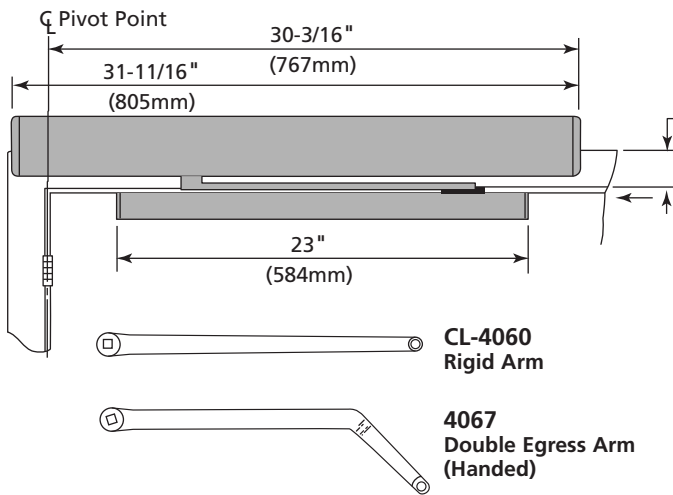
- 85° to 110° templated door openings in 5° increments
- 1/8" (3mm) maximum frame reveal
- Energy absorbing shock spring standard

### 4067 DOUBLE EGRESS ARM AND SLIDE TRACK

- From 1/8" to 3" (3 to 76mm) frame reveal
- Specify hand when ordering
- Energy absorbing shock spring standard

An auxiliary stop is suggested where severe conditions exist.

## Standard Application



MODEL	DIM "S"
CL-4060	1-3/4" (44mm)
4067	2-3/8" (60mm)

DOOR SWING	85°	90°	95°	100°	105°	110°
MINIMUM DOOR WIDTH (mm)	32" (813)	31" (787)	30" (762)	30" (762)	29" (737)	29" (737)

Minimum door width for all double egress applications is 29" (737mm)

**Note:** Contact factory for use on doors exceeding 250lbs (113kg)

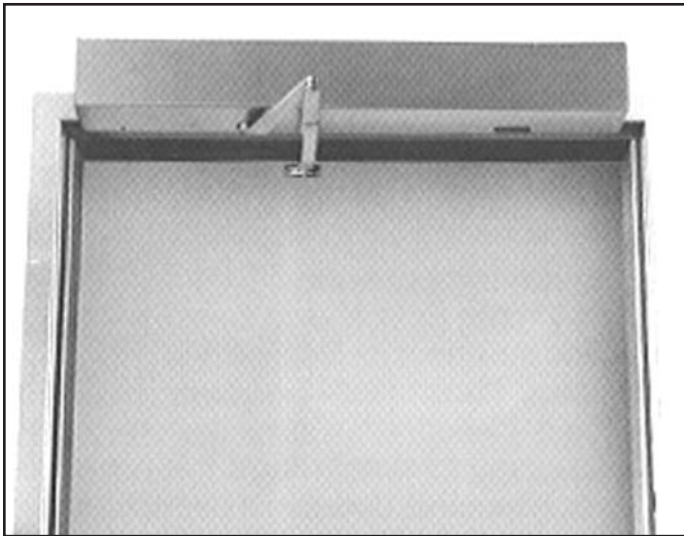
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# 4051/4052 Operators for Push Side

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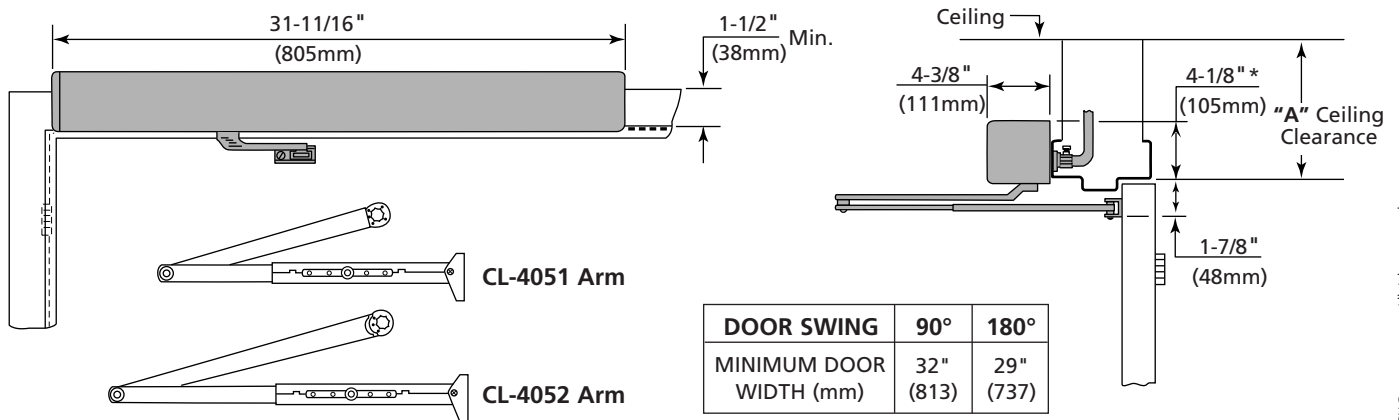
**CL-4051/4052**  
STOP (PUSH) SIDE OF DOOR

**STANDARD DUTY DOUBLE LEVER ARM**

- Frame reveals 2-3/4" to 7" (70 to 178mm)
- An auxiliary door stop is required for these applications.
- Specify hand when ordering

MODEL	DOOR OPENING
CL-4051	Up to 110°
CL-4052	From 110° to 180°

**Standard Push Side Application**



DOOR SWING	90°	180°
MINIMUM DOOR WIDTH (mm)	32" (813)	29" (737)

If dimension "A" less than 5" (127mm), use 4001D for 4051, 4002D for 4052 drop bracket (Drop Application); see page 6 and handed unit with CL prefix.

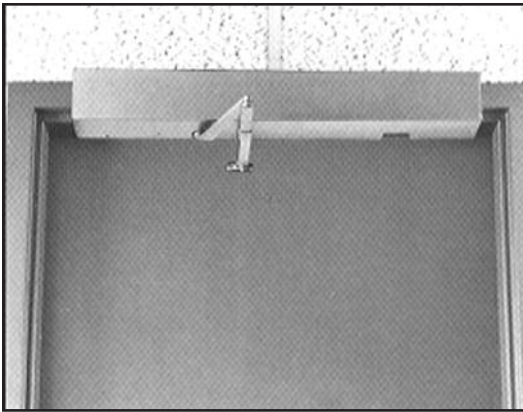
**Note: Contact factory for use on doors exceeding 250lbs (113kg)**

# Drop Bracket Applications

MPower 4000 Door Operator

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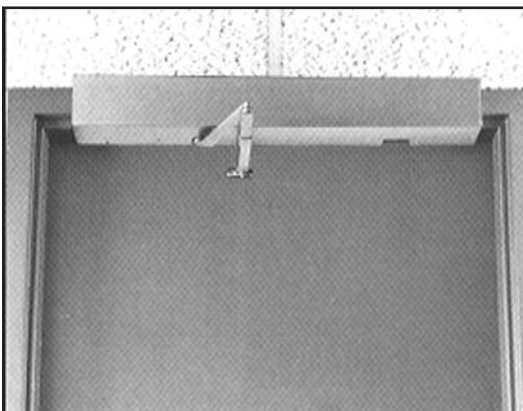


LH Shown

## CL-4051 with 4001D Drop Bracket

**STOP (PUSH) SIDE OF DOOR – UP TO 110° DOOR OPENING**

- Double lever arm
- Frame reveals 2-3/4" to 7" (70 to 178mm)
- 110° maximum door opening
- Auxiliary door stop is required for this application
- Minimum door width is 33" (838mm)



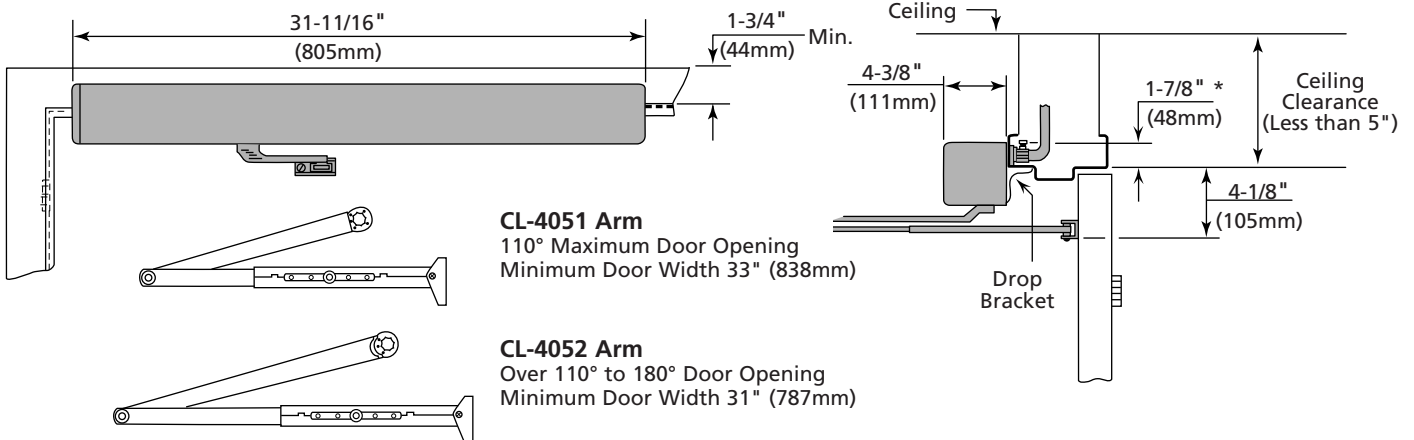
LH Shown

## CL-4052 with 4002D Drop Bracket Kit

**STOP (PUSH) SIDE OF DOOR – 110° TO 180° DOOR OPENING  
STANDARD DUTY DOUBLE LEVER ARM**

- Double lever arm
- Frame reveals 2-3/4" to 7" (70 to 178mm)
- Specify for maximum door opening angles between 110° and 180°
- Auxiliary door stop is required for this application
- Minimum door width is 31" (787mm)

## Typical Application



**NOTE: Contact factory for use on doors exceeding 250lbs. (113kg)**

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# Typical System Applications

## Mpower 4000 Door Operator

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### MAGNETIC LOCK

**Opening Description:** Fail Safe ADA Opening  
- Magnetic Lock & Door Operator

#### Application

Non-Fire Rated Glass Door - Interior or Exterior Office or Main Entrance Openings

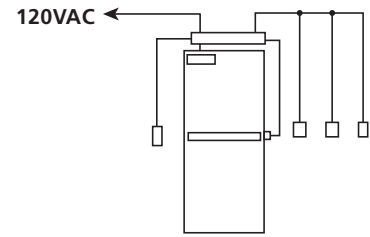
#### Operation

- Lock or unlock system by a key control switch at all times
- Free ingress & egress using the door operator or manually when unlocked
- Outside door switch will be inactive denying ingress other than by card when locked
- To exit, inside door switch will unlock magnetic lock and open the door or manually push bar to exit

- Door operator acts as standard door closer when entering or exiting manually

#### Material

- SARGENT Mpower 4000 Door Operator
- SARGENT 1584 Electromagnetic Lock
- McKINNEY QC Electric Hinge
- SARGENT 55-8895 Mechanical Touch Bar with Request to Exit Switch
- 2-SARGENT 4296HP Door Switches
- SARGENT 4370L Maintained Key Switch
- SARGENT 4301 Card Reader



### ELECTRIC STRIKES

**Opening Description:** Fail Secure ADA Opening  
- Double Electric Strike & Door Operators on Pair of Doors

#### Application

Interior, Non-Fire Rated Wood or Metal Doors  
- Corridor or Emergency Room Openings

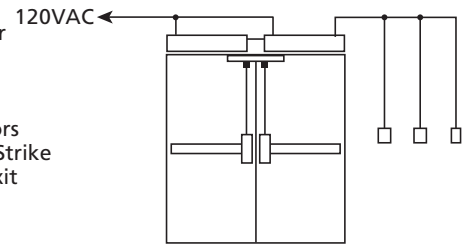
#### Operation

- Doors are to be closed and latched at all times
- Key Switch activates and deactivates door switches to signal door operators
- Active door switch will energize the electric strike and automatically open doors

- Access manually from the push side only when door switches are inactive
- Door operators will act as standard door closers when door switches are inactive

#### Material

- 2-SARGENT Mpower 4000 Door Operators
- FOLGER ADAM 310-4-1 Double Electric Strike
- 2-SARGENT 8700 Surface Vertical Rod Exit Devices
- 2-SARGENT 4396HP Door Switches
- SARGENT 4370L Maintained Key Switch



### VESTIBULE

**Opening Description:** Vestibule – Two Single Doors & Operators

#### Application

Interior or Exterior Non-Rated Glass, Wood or Metal Doors – Hospitals, College Dorms, Hotels and other Public Buildings

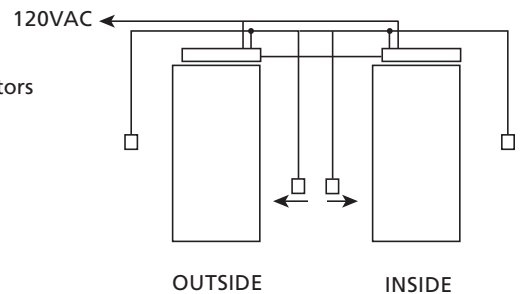
#### Operation

- Doors are closed but not latched at all times when not activated
- 2 door switches outside of vestibule operate closest door first, then second door

- 2 door switches inside vestibule operate closest door only

#### Material

- 2-SARGENT Mpower 4000 Door Operators
- 4-SARGENT 4396HP Door Switches



### VESTIBULE (TWO PAIR)

**Opening Description:** Vestibule – Two Pairs of Doors & Operators

#### Application

Exterior Non-Rated Glass Doors – Hospitals, College Dorms, Large Hotels, Convention Centers and other Public Buildings

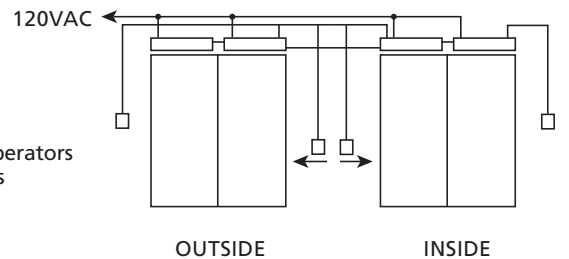
#### Operation

- Doors are closed but not latched at all times when not activated

- 2 door switches outside of vestibule operate closest door first then other door
- 2 door switches inside vestibule operate closest door only

#### Material

- 4-SARGENT Mpower 4000 Door Operators
- 4-SARGENT 4296HP Door Switches



# Typical System Applications

## MPower 4000 Door Operator

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### WITH ACCESS CONTROL

#### FOR ENTRY

**Opening Description:** Fail Secure ADA Opening – Electric Strike & Door Operator

#### Application

Rated or Non-Fire Rated Metal Door – Interior or Exterior Office, Main Entrance or Stairwell Openings

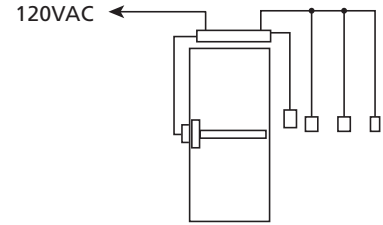
#### Operation

- Activate or deactivate system by a key control switch
- When outside, door switch is inactive, ingress will be by card only
- Inside door switch will unlock and open the door automatically

- Push exit device bar to exit at all times
- Door operator acts as standard door closer when entering or exiting manually
- Recommend: HES Electric Strikes

#### Material

- SARGENT MPower 4000 Door Operator
- SARGENT 8900 Mortise Exit Device
- 2-SARGENT 4396HP Door Switches
- SARGENT 4370L Maintained Key Switch
- SARGENT 4301 Card Reader
- HES 1006 Electric Strike



### SMOKE VENTILATION

**Opening Description:** Fail Secure “Blow Open” Opening – Latch Retraction & Door Operators on Pair of Doors

#### Application

Exterior Metal Doors – Emergency Ventilation Type Openings

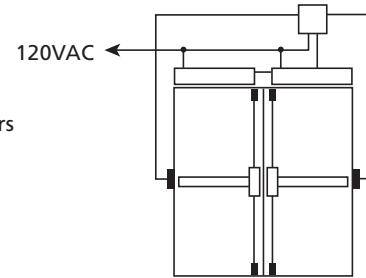
#### Operation

- Doors are to be closed and latched at all times
- Fire Alarm system sends signal to activate door operators and latch retraction devices

- Doors open when activated and stay open until loss of power or until fire alarm is reset
- Door operators act as standard door closers during normal use

#### Material

- 2-SARGENT MPower 4000 Door Operators
- 2-SARGENT 56-8700 Latch Retraction Vertical Rod Exit Devices
- 1-SARGENT 3540, 2amp, 24 VDC regulated and filtered power supply
- 2-McKINNEY QC Electric Hinges



### LATCH RETRACTION

**Opening Description:** Vestibule – Two Single Doors & Operators

#### Application

Interior or Exterior Rated & Non-Rated Glass, Wood or Metal Doors – Hospitals, College Dorms, Hotels and other Public Buildings

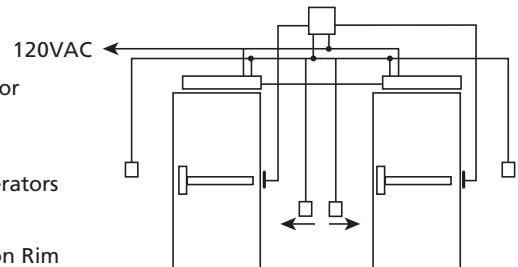
#### Operation

- Doors are closed and latched at all times
- When activated, latch bolts are retracted and door(s) will automatically open
- 2 door switches outside of vestibule operates closest door first then second door

- 2 door switch inside vestibule operate closest door only
- Recommend: 56- Latch Retraction Exit Devices
- Non-rated devices can be dogged for push/pull operation

#### Material

- 2-SARGENT MPower 4000 Door Operators
- 4-SARGENT 4396HP Door Switches
- 2-McKINNEY QC Electric Hinges
- 2-SARGENT 56-8888 Latch Retraction Rim Exit Devices
- 1-SARGENT 3540, 2amp, 24 VDC regulated and filtered power supply



### MAGNETIC LOCKS (INTERLOCK)

**Opening Description:** Vestibule Interlock – Two Pairs of Doors & Operators

#### Application

Interior or Exterior Rated & Non-Rated Glass, Wood or Metal Doors – ICU Rooms at Hospitals, Research Labs, Clean Rooms & other Environmentally Controlled Applications

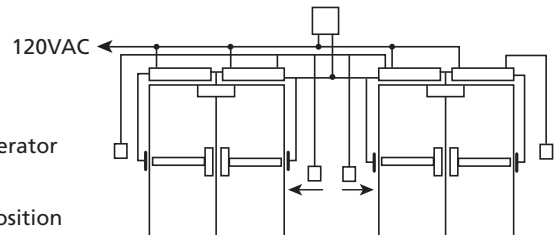
#### Operation

- Doors are closed and secure by electromagnetic locks
- Only one pair of doors may be open at a time before the opposite doors can open
- When activated, magnetic locks unlock and door(s) will automatically open

- Door switch outside of vestibule operates closest pair of doors
- Either door switch in vestibule operates closest pair of doors when all doors are closed

#### Material

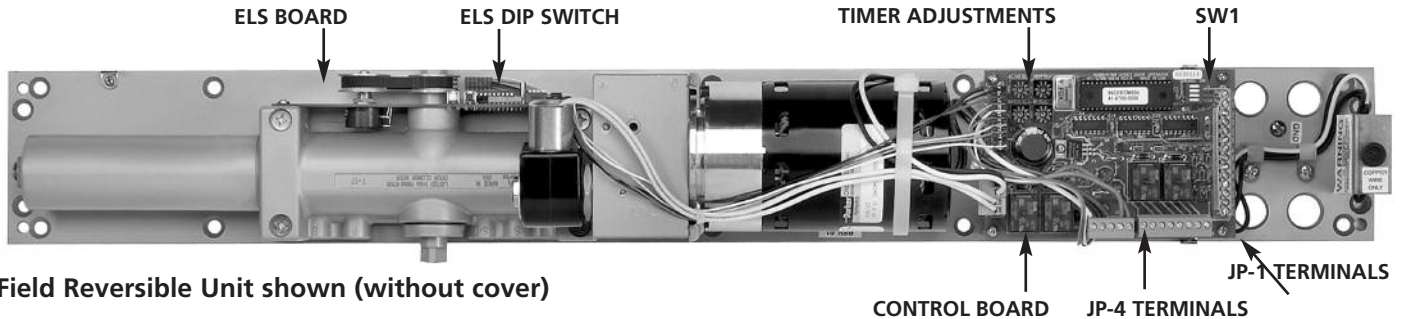
- 4-SARGENT MPower 4000 Door Operator
- 4-SARGENT 4396HP Door Switches
- 2-SECURITRON DM625C Double Electromagnetic Locks with Door Position Switch
- 4-McKinney QC Electric Hinges
- 4-SARGENT 55-8895 Mechanical Touch Bar with Request to Exit Switch
- 1-SARGENT 3540, 2amp, 24 VDC regulated and filtered power supply



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### Adjustment and Terminal Locations

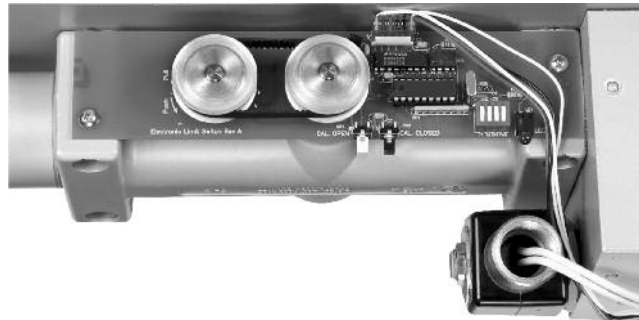


Field Reversible Unit shown (without cover)

### ELS - Electronic Limit Switch

Used for open/closed door setting, push and go selection, obstruction timing and Power Operator/Power Assist Function.

- WHT Button - Used for Door Open setting
- BLK Button - Used for Door Closed setting



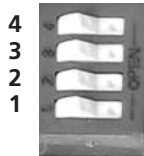
#### Dip Switch Settings

- 1 - Obstruction Detection Delay
- 2 - Obstruction Detection Delay
- 3 - Activation Mode (Push and Go)
- 4 - Power Assist/Power Operator Mode

### Control Board Dip Switch and Timer Adjustments

#### SW1 DIP Switches

- 1 - P/A - Door Operator Function Switch - OFF position selects Operator Mode. ON position selects the Assist Mode.
- 2 - A/D - Alarm Delay Timer - OFF = 30 second delay. ON = 60 second delay. Used with terminal JP1-1
- 3 - Not used - OFF
- 4 - Not used - OFF



#### TIMER ADJUSTMENTS

- SW2 - Motor Delay - Delays motor start-up to allow unlocking of electric hardware.
- SW3 - Solenoid Delay - sets the length of time that the relay will stay energized or de-energized. Used for JP4-3, 4 and 5 relay. Allows electric hardware to stay energized long enough for automatic door opening.
- SW4 - Vestibule Delay - Sets the length of time between receipt of the Vestibule signal and the motor start-up.
- SW5 - Hold Open Delay/Assist Delay - Sets length of time door holds open at the fully open position for operator function. Sets length of time motor and pump assembly will operate to reduce opening force of door for assist function. When time elapses the door will operate as a standard door closer.

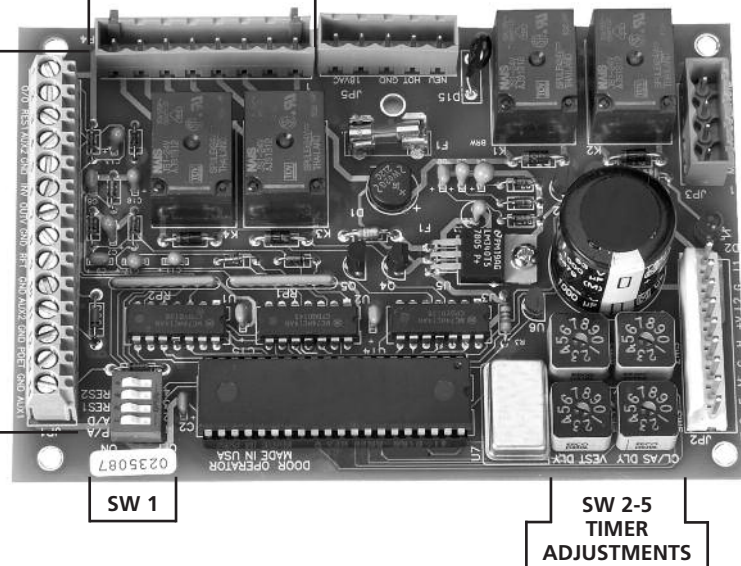


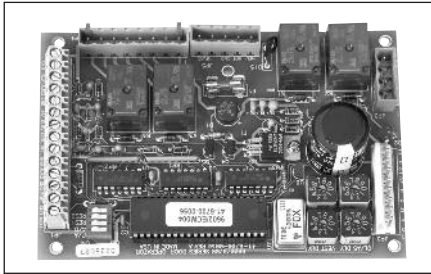
### Control Board JP-1 Terminal: (Input Controls) - wall switches, motions sensors, 2nd M-Power, etc.

- 1 - O/O - Override Open - Input for blow open or smoke ventilation application - Upon initiation of a closed signal from a fire/smoke alarm panel, the door will open and remain open until signal is terminated. Use with any JP-1 ground.
- 2 - RES 1 - Not used
- 3 - AUX2 - Auxiliary Two - This is one of two secondary initiating switch input contacts (JP-10 is the other.) Use with any JP-1 ground to initiate operation.
- 4 - GND - Ground
- 5 - INV - IN Vestibule - Used for vestibule function. This contact must be connected to the JP-1-6 terminal from another unit to receive an initiating signal. Use this contact with any JP-1 ground.
- 6 - OUTV - Out Vestibule - Used for vestibule function - This contact must be connected to terminal JP-5 of another unit to send an initiating signal. Use this contact with any JP-1 ground.
- 7 - GND - Ground
- 8 - RFT - Toggle (Maintained Hold Open) This input can be used with any normally open switch. The first initiation of this contact will open door and hold it open. A second initiation of this contact will release and close the door. Use with any JP-1 ground.
- 9 - GND - Ground
- 10 - AUX2 - Auxiliary Two - Same as JP1-3 above.
- 11 - GND - Ground
- 12 - PDET - Presence Detector - Permits wiring of a sensor to prevent a closed door from opening or a door that is fully open from closing. Use with any JP-1 ground.
- 13 - GND - Ground
- 14 - AUX1 - Auxiliary One - Primary initiating switch contact. Initiates door power cycle. For vestibule function, the switch on the initiating side of door is connected to this terminal. Use with any JP-1 ground.

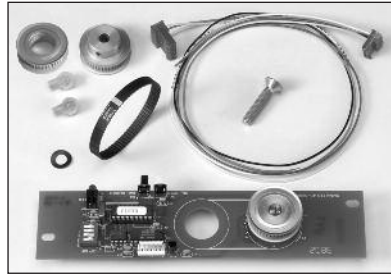
### JP-4 Terminal: (Output Controls) - electric strikes, latch retraction exit devices, mag locks, etc.

- 1 - GND - Ground
- 2 - + 24VDC
- 3 - NO1 - Relay Contact - Normally open relay dry contact that is switched when any auxiliary inputs are initiated. Delay can be set for up to 12 seconds. Use with JP4-4 CO-1.
- 4 - CO1 - Relay Contact - Common relay contact for use with terminals JP4-3 and JP4-5.
- 5 - NC1 - Relay Contact - Normally closed relay contact that is switched when any auxiliary inputs are initiated. Delay can be set for up to 12 seconds. Use with JP4-4 CO1.
- 6 - NO2 - Alarm Delay - Normally open dry relay contact that is switched when any auxiliary inputs are initiated. The relay will stay switched for 30 or 60 seconds (selected by dip switch SW1-2 A/D).
- 7 - CO2 - Alarm Delay - Common contact for use with terminals JP4-6 and JP4-8.
- 8 - NC2 - Alarm Delay - Normally closed dry contact that is switched when any auxiliary inputs are initiated. The relay will stay switched for 30 or 60 seconds (selected by dip switch SW1-2 A/D).

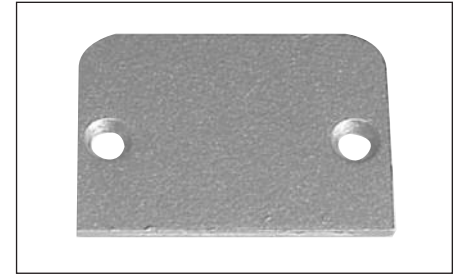




63-4205 Control Board



63-4179 Repair Kit ELS Board



63-0709 Security Plate - Conceals the ON/OFF/HOLD OPEN switch to deter tampering, supplied with operator

63-4188 Operational Signs (kit contains 7 signs) – Supplied with operator



2 per



1 per



1 per



2 per



1 per



1 per



2 per

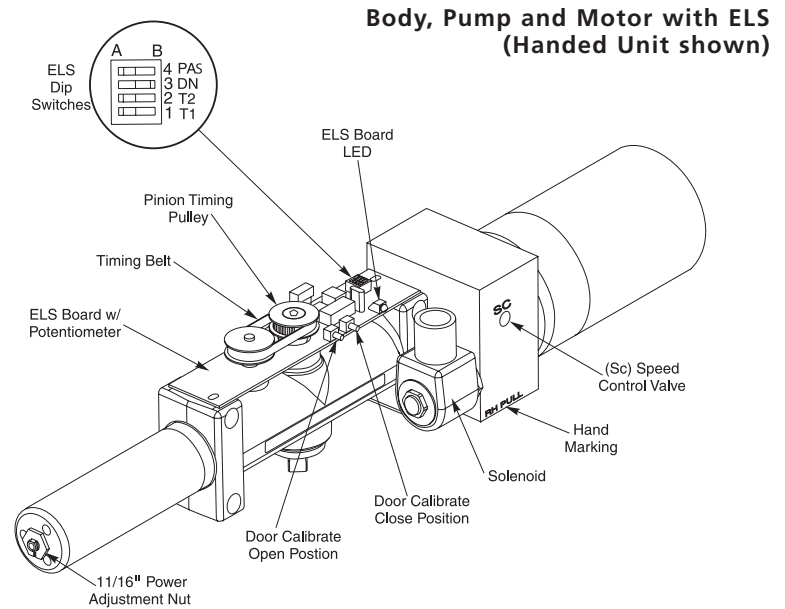
## Accessories

SARGENT MODEL	DESCRIPTION	VIEW	NOTES
4396HP	6" x 6" Square wall switch with handicap logo & "Press to Open"		<ul style="list-style-type: none"> <li>• Momentary SPDT contacts rated at 500ma @ 12 VDC or 24VAC</li> <li>• Mounts in standard single or double gang electrical box or in 6-1/2" x 6-1/2" x 1-3/4" surface mount box provided</li> <li>• <b>Wireless Switch Option:</b> <ul style="list-style-type: none"> <li>- Operators at 433MHz</li> <li>- Operator requires RF receiver (#RFR2)</li> <li>- Switch is to be surface mounted in box provided</li> <li>- Specify "RF" to switch number to order (Ex: 4395HPRF)</li> </ul> </li> </ul>
4396P	6" x 6" Square wall switch with "Press to Open"		
4395HP	6" Round wall switch with handicap logo & "Press to Open"		
4395P	6" Round wall switch with "Press to Open"		
FOB1	Key Fob Transmitter		<ul style="list-style-type: none"> <li>• 433MHz Key Fob used with RF Receiver</li> </ul>
RFR2	RF Receiver		<ul style="list-style-type: none"> <li>• 433 MHz Radio Frequency (RF) Receiver Kit: Field-installed RF Receiver used in conjunction with RF transmitter above (FOB1) and all RF wireless wall switches</li> </ul>
4397HP	Narrow type switch		<ul style="list-style-type: none"> <li>• Mounts flush through a 1-3/4" x 2-7/8" cutout in jamb or in the 4-3/4" x 2" x 1-7/8" box provided</li> <li>• Momentary SPDT contacts rated at 500ma @ 12 VDC or 24VAC</li> </ul>
4341	1" x 3/4" Surface Mount Pushbutton		<ul style="list-style-type: none"> <li>• Surface mount push button</li> <li>• Momentary DPST contacts rated at 3 Amps</li> </ul>
4399	2" Square Green Pushbutton		<ul style="list-style-type: none"> <li>• Single gang push button with green LED</li> <li>• Momentary SPDT contacts rated at 10 Amps</li> </ul>

### Body Pump and Motor Assemblies

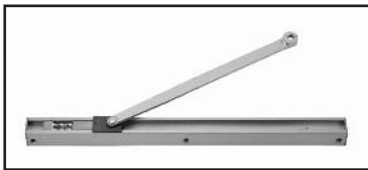
**63-4160 (CL-4060, 4067)**  
**63-4163 (CL-4051, CL-4052)**  
 Right Hand Body Pump and Motor Assembly

**63-4161 (CL-4060, 4067)**  
**63-4164 (CL-4051, CL-4052)**  
 Left Hand Body Pump and Motor Assembly



### Arm and Track Assemblies

#### CL-4060 Rigid Arm and Slide Track



**63-4168** - Arm and Track Assembly  
**63-4167** - Arm Assembly  
**63-4166** - Track Assembly

#### 4067 Double Egress Arm and Slide Track



**63-4175** - Arm and Track Assembly (LH)  
**63-4177** - Arm and Track Assembly (RH)  
**63-4174** - Arm Assembly (LH)  
**63-4176** - Arm Assembly (RH)  
**63-4166** - Track Assembly

#### CL-4051 Arm (Up to 110° Opening)



**63-4171** - Arm Assembly  
**63-4170** - Main Arm and Rod  
**63-4169** - Foot Assembly

#### CL-4052 Arm (110° to 180° Opening)



**63-4173** - Arm Assembly  
**63-4172** - Main Arm and Rod  
**63-4169** - Foot Assembly

### 2.0 Low Energy Door Operators

- A. Low energy door operators shall be MPower 4000™ Series by SARGENT Manufacturing Company, New Haven, CT.
- B. Low energy door operators shall meet ANSI/BHMA A156.19 requirements.
- C. Low energy door operators shall meet UL, cUL, UL10C, and UL10B standards for use on fire doors.
- D. Low energy door operators shall have the following adjustments:
  - 1. Motor assist shall be adjustable from 0 to 30 seconds in 5 second increments.
  - 2. Door control shall be adjustable to provide compliance with the requirements of the Americans with Disabilities Act (ADA).
  - 3. Door closing force and backcheck shall be adjustable.
  - 4. Motor start up delay.
  - 5. Vestibule interface delay.
  - 6. Electric lock delay.
  - 7. Door hold open delay up to 30 seconds.
- E. Operator units shall provide conventional door closer opening and closing forces unless the power operator motor is activated by an initiating device.
- F. Operator units shall have a three position selector mode switch that shall permit units to be switched "ON" to monitor for function activation, "HO" for indefinite hold open function, or "OFF" which shall deactivate all control functions but will allow standard door operation by means of the internal mechanical closer.
- G. Operators shall have push and go function to activate power operator or power assist functions.
- H. Operator units shall have door closer assembly with adjustable spring size, backcheck valve, sweep valve, latch valve, speed control valve, and pressure adjustment valve to control door closing.
- I. Operator units shall have inputs for smoke ventilation doors, which allow doors to power open upon fire alarm activation and hold open indefinitely or until fire alarm is reset.
- J. Operator units shall have a presence detector input to prevent a closed door from opening or a door that is fully opened from closing.
- K. Operator units shall have a hold open toggle input to allow remote activation for indefinite hold open; door shall close the second time the input is activated.
- L. Operator units shall have vestibule inputs to allow sequencing operation of two units.
- M. Operators shall have a SPDT relay for interfacing with latching or locking devices.

### How To Order

Specify	Note	Example
Quantity	Number Ordered	<b>1 Qty.</b>
Product Series	MPower 40	<b>1 Qty. CL-40</b>
Application	See Types of Applications	<b>1 Qty. CL-4060</b>
Hand	Specify Hand	<b>1 Qty. CL-4060 R</b>
Finish	See Finishes	<b>1 Qty. CL-4060 R EN</b>
Additional Information	Item/Heading Number x Door number	<b>1 Qty. CL-4060 R EN x Item 01 x DR201</b>

### Types of Applications

#### HINGE (PULL) SIDE OF DOOR

- 60 – Rigid Arm & Slide Track 110° Maximum Door Swing Maximum Reveal 1/8" (3mm)
- 67 – Double Egress Arm & Slide Track 110° Maximum Door Swing for Reveals 1/8" to 3" (3 to 76mm)  
(Specify hand when ordering)

#### STOP (PUSH) SIDE OF DOOR

- 51 – Standard Duty Double Lever Arm 110° Maximum Door Swing Reveals 2-3/4" to 6-7/8" (70 to 175mm)
- 52 - Standard Duty Double Lever Arm 180° Maximum Door Swing Reveals 2-3/4" to 6-7/8" (70 to 175mm)

### FINISHES

Product will be sprayed with a combination of waterborne acrylic and polyester powder coat. Closers will withstand 100 hours of salt spray.

SARGENT FINISH	BHMA FINISH	DESCRIPTION
EN	689	Sprayed aluminum
EB	690	Sprayed bronze to match 10B
EAB	696	Sprayed brass

**Note: Door switches and sensors are not included with operator. These items must be ordered separately.**

SARGENT Manufacturing Company  
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800-727-5477 • [www.sargentlock.com](http://www.sargentlock.com)

Founded in the early 1800s, SARGENT<sup>®</sup> is a market leader in locksets, cylinders, door closers, exit devices, electro-mechanical products and access control systems for new construction, renovation, and replacement applications. The company's customer base includes commercial construction, institutional, and industrial markets.

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ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience.