8400 SERIES
LOW ENERGY POWER OPERATOR
### Headliners
- Ideal for manual openings that occasionally require an automatic opening
- Push or pull side mounting
- Quiet operation eliminates noise in sensitive areas
- Activated manually via wall switches or radio frequency devices

### Features
- Single person installation
- Pre-drilled mounting holes for ease of installation
- Built-in adjustable door stop for protection against wind or abusive environments
- Interfaces with electric door hardware
- Operates as a mechanical closer if power is disconnected
- Obstacle recognition upon opening and closing
- Onboard power supply
- Blow open function for smoke ventilation
- Boost on close - selectable on/off
- Onboard programmer allows easy field adjustment
- Adjustable opening force

### Applications
- Libraries
- Retail Buildings
- Medical Buildings
- Schools and Universities
- Assisted Living Facilities

### Models
<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8418</td>
<td>Single Operator. (Handed)</td>
</tr>
<tr>
<td>8419</td>
<td>Simultaneous Pair – 2 units, 1 controller – doors operate at the same time.</td>
</tr>
<tr>
<td>8420</td>
<td>Independent Pair – 2 units, 2 controllers – doors operate independently from each other.</td>
</tr>
<tr>
<td>8421</td>
<td>Double Egress Simultaneous Pair – 2 units, 1 controller – doors swing in opposite direction at same time.</td>
</tr>
<tr>
<td>8422</td>
<td>8422 Double Egress Independent Pair – 2 units, 2 controllers – doors swing in opposite direction at different times.</td>
</tr>
<tr>
<td>8423</td>
<td>8423 Single Operator paired with 5100 Series Mechanical Closer for inactive door. (Handed)</td>
</tr>
</tbody>
</table>

* Note: * Must specify push or pull side mount for all operators except double egress applications.
  * Specify handing when ordering the 8418 and 8423.

### Specifications

#### Electrical
- Power requirements: 115 VAC 60 HZ
- Current draw: 3.0A
- Auxiliary output voltage: 24 VDC 500mA
- Fuse type: 2.0A, 5 x 20mm, Slo-Blo
- Electric lock relay type: Form "C" SPDT
- Lock relay rating: 5.0A @ 28 VDC

#### Dimensions
- Size: 5"h x 4-1/2"d x Door Opening Width + 3"
- Reveal: Up to 12" standard (push side), 6" standard (pull side)
- Max door weight: 350 lbs
- Standard door sizes:
  - Single: 36" - 48"
  - Double: 60" - 96"

#### Parameters
- Hold open time: 5 sec to continuous
- Built-in-stop: Manual swing to 180 degrees
- Fire alarm input: FA input shunts swing activations until FACP is manually reset
- Internal display: LCD Programmer
- Battery backup size: Min 1500VA
- Memory type: Flash upgradeable
- Adjustable swing degree: 80 degrees to 180 degrees

#### Certifications
- ANSI: Meets A156.19
- Warranty: 2 years
- UL/cUL: Listed for up to 3 hours
- UL10C: Positive pressure rated

#### Finishes
- ALM: Aluminum
- DBZ: Dark Bronze
Actuator Features
- Hard wired and wireless (Hard wired standard)
- Beveled edges
- Graphics embossed onto the faceplate for durability
- 304 grade stainless steel finish - scratch resistant

1.5" x 4.75" Jamb Actuator
- 2-659-0175: Push to Open text and logo
- 2-659-0176: Handicap logo only
- 2-659-0177: Surface Mount Box

Bollard Posts
- 2-659-0180: Black Powder Coat
- 2-659-0181: Bronze Powder Coat
- 2-659-0182: Silver Powder Coat

6" Square Actuator
- 2-659-0169: Push to Open text and logo
- 2-659-0170: Handicap logo only
- 2-659-0171: Surface Mount Box

4.5" Square Actuator
- 2-659-0172: Push to Open text and logo
- 2-659-0173: Handicap logo only
- 2-659-0174: Surface Mount Box

6" Round Actuator
- 2-659-0161: Push to Open text and logo
- 2-659-0162: Handicap logo only
- 2-659-0163: Surface Mount Box
- 2-659-0164: Weather Ring

4.5" Round Actuator
- 2-659-0165: Push to Open text and logo
- 2-659-0166: Handicap logo only
- 2-659-0167: Surface Mount Box
- 2-659-0168: Weather Ring

36" Low Profile Actuator
- 2-659-0178: Push to Open text and logo - Wireless
- 2-659-0179: Push to Open text and logo - Hard wired

4.75" Vestibule Actuator
- 2-659-0242: Push to Open text and logo
- 2-659-0243: Surface Mount Box

Transmitter Features
- Transmitters can be programmed to multiple receivers
- Optional delay - no delay programming
- Toggle or pulse mode selectable by DIP switch
- Red LED on receiver verifies transmission and delivers troubleshooting assistance
- Red LED on transmitter ensures transmission and battery life

2-659-0184
- 3-Volt Hard Wired, One Button Transmitter

2-659-0185
- 9-Volt Hard Wired, One Button Transmitter

2-659-0186
- Wireless, One Button Transmitter

2-659-0240
- Programmable Relay and Door Sequencer

2-659-0183
- 433MHz Receiver

2-659-0232
- Cover for Single Operator

2-659-0234
- Cover for Dual Operators

2-659-0230
- Drop Plate

2-659-0236
- Power Supply

2-659-0237
- Relay Board