**ELECTROMECHANICAL AUTOMATIC OPERATORS**

LCN’s electromechanical products are designed primarily for automatic opening applications that occasionally require manual opening. A control box provides all electrical functions. These self-contained units are suitable for use on single leaf doors or pair of doors. These products combine all the control and power elements into a single operator package, only some actuators are required to complete the system.

- Surface mounted and overhead concealed mountings available.
- Available in two standard anodized finishes – Aluminum and Dark Bronze.

**LOW ENERGY ELECTROMECHANICAL POWER OPERATORS**

- Complies with ANSI 156.19.
- Opening time from full close to backcheck is no faster than 3 seconds.
- Less than 15 lbs of force to open door manually.

**STANDARDS, LISTINGS & APPROVALS**

- UL listed for self-closing doors without hold open. UL 325.
- Tested and certified under ANSI.
- ADA Compliant.
- Wiring is compliant with both UL 325 and the NEC. Separation of high and low voltage.
- Consult the factory for other listings.

**WARRANTY**

- 2 year limited warranty. See General Information Section for complete details.

**MAINTENANCE**

Low Energy Electromechanical Power Operators

- Operators mounted according to the LCN Installation instructions require no periodic maintenance or adjustments.
- Periodic visual inspections are recommended.
- No service contracts.
This page illustrates examples of typical Electromechanical LCN systems. Please consult your local SSC representative of LCN for assistance with specific installations and material requirements.

**SINGLE DOOR SYSTEMS**

- An interior door
- Guide rails or safety devices not required
- Free swinging (or dogged) door

**How It Works:**
- Wireless actuators with receiver, powered by the transformer allows for easy installation
- For automatic door operation, touching either actuator signals the receiver and power operator to open the door to 90 degrees
- The door is held there until the system times out
- Door closes via spring return
- Door opening speed, closing speed and hold open time is adjustable on the control box
- If not actuated, the power operator functions as a manual door

**Bill Of Materials:**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>9531</td>
<td>Automatic Operator (RH)</td>
</tr>
<tr>
<td>2</td>
<td>8310-3853WS</td>
<td>Wireless Actuators</td>
</tr>
<tr>
<td>1</td>
<td>8310-865</td>
<td>Wireless Receiver</td>
</tr>
</tbody>
</table>

**VESTIBULE ENTRY OPERATION**

- Exterior & vestibule doors
- Sequential operation
- Guide rails or safety devices not required
- Controlled access, free egress

**How It Works:**
- This installation provides both accessibility and security for building occupants
- It allows for the integration of multiple automatic operators, a card reader and electric strike
- A sequencer allows sequential operation of the two automatic operators
- Vestibule actuators allow single door ingress/ egress from the vestibule as needed
- If not actuated the power operator functions as a manual door

**Bill Of Materials:**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>9542</td>
<td>Automatic operator (RH)</td>
</tr>
<tr>
<td>1</td>
<td>9531</td>
<td>Automatic operator (RH)</td>
</tr>
<tr>
<td>3</td>
<td>8310-853</td>
<td>Wall Plate Actuators</td>
</tr>
<tr>
<td>1</td>
<td>8310-849</td>
<td>Sequencer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Other products from Von Duprin and Schlage Electronics</td>
</tr>
</tbody>
</table>
CONTROL BOX - 2800, 9500 SERIES

1. Control Box, 115 VAC 60 Hz, or 240 VAC 50/60 Hz
2. Seven Segment Display
3. Power Indicator
4. Factory Default Push Button
5. Model Identification Label
6. 6-Pin Connector for Master Motor
7. 3-Pin Connector for 3 Position Switch
8. Breakaway Jumper Cable
9. 2-Pin Connector for Breakaway Switch
10. Accessory Direct Connect Diagram
11. 6-Pin Connector for Companion Motor (supply only w/ simultaneous pairs)
12. Value Adjustment Push Buttons
13. Setting Adjustment Menu
14. Function Adjustment Push Buttons
15. Closing Speed Adjustment Dial (Master)
16. Closing Speed Adjustment Dial (Companion)
17. 3-Pin Connector for AC power
ElectromechanicalPowered Systems

STANDARD CONTROL BOX - 9100 SERIES

For clarity, not all components are shown on the control box PC board.

J8, 10-position Control Box Power Cable
J1, 6-position Main Power Cable
J5, 2-position Motor Power Cable
J3, 4-position Hall Effect Cable

Plug cables into these receptacles

24VDC - [Red DC+]
24VDC +
Safety Sen
Safety GND
Common GND
N/O Strike Relay
N/C Strike Relay
Aux GND
Aux ACT
3 Way HO
3 Way GND
3 Way OFF
Main Act
Main Act

Electric Lock, Electric Strike, etc.

Black DC-

N.O. or N.C. Depending on Device

Connect
Fail Safe to N/C
Fail Secure to N/O

Optional 3 Position Switch

Disabled when optional 3 position switch is in Off position

Activation Device
N.O. Dry Contacts

Multiple activation devices should be connected in parallel

Multiple activation devices should be connected in parallel

For clarity, not all components are shown on the control box PC board.

J8, 10-position Control Box Power Cable
J1, 6-position Main Power Cable
J5, 2-position Motor Power Cable
J3, 4-position Hall Effect Cable

Plug cables into these receptacles

24VDC - [Red DC+]
24VDC +
Safety Sen
Safety GND
Common GND
N/O Strike Relay
N/C Strike Relay
Aux GND
Aux ACT
3 Way HO
3 Way GND
3 Way OFF
Main Act
Main Act

Electric Lock, Electric Strike, etc.

Black DC-

N.O. or N.C. Depending on Device

Connect
Fail Safe to N/C
Fail Secure to N/O

Optional 3 Position Switch

Disabled when optional 3 position switch is in Off position

Activation Device
N.O. Dry Contacts

Multiple activation devices should be connected in parallel

For clarity, not all components are shown on the control box PC board.

J8, 10-position Control Box Power Cable
J1, 6-position Main Power Cable
J5, 2-position Motor Power Cable
J3, 4-position Hall Effect Cable

Plug cables into these receptacles

24VDC - [Red DC+]
24VDC +
Safety Sen
Safety GND
Common GND
N/O Strike Relay
N/C Strike Relay
Aux GND
Aux ACT
3 Way HO
3 Way GND
3 Way OFF
Main Act
Main Act

Electric Lock, Electric Strike, etc.

Black DC-

N.O. or N.C. Depending on Device

Connect
Fail Safe to N/C
Fail Secure to N/O

Optional 3 Position Switch

Disabled when optional 3 position switch is in Off position

Activation Device
N.O. Dry Contacts

Multiple activation devices should be connected in parallel
GENERAL ELECTRICAL DATA
1. The 115/240 volt power supply must be a dedicated circuit from the main circuit breaker panel and must not be connected into a building lighting system operating fluorescent lights.
2. Location of conduits determined by mounting. See installation instructions for location.

2800, 9500, SERIES
Electrical Data
1. 120 VAC 60Hz input @ 2.5 amps (2800 and 9500 Series).
2. 240 VAC 50/60 Hz @ 2.5 amps (2800, and 9500 Series).
3. 24 V AC output @ 1.5 amps (protected by self-resetting thermal fuse).
4. 24 V DC available with SO kit included.

9100, SERIES
Electrical Data
1. 120 VAC input @ 1 amp.
2. 24 VDC output @ 2.5 amps.
**On-Board Power Supply**
Provides 24V DC output to power card readers, manual actuators and other peripherals.

**Electronic Circuit Protection**
Fused input circuit protection and fused output protection for 24 VDC peripherals.

**Visual Function Indicators**
There are 2 LED's for installation and trouble shooting feedback. The motor LED will illuminate when the motor drive circuit energizes. This is when the operator is activated it will remain on only during the opening of the door and the power LED this will illuminate when power is applied to the board and remains illuminated as long as there is power applied to the board.

**Programming Mode**
Allow tailoring of the following functions to meet specific site conditions:
- Power Boost
- Opening Speed
- Backcheck Speed
- Hold Open Time Delay
- Backcheck Position
- Closing Speed
- Latch Position
- Push 'N Go
- Delayed Activation
The 9130 BENCHMARK by LCN is an electrically powered low-energy operator. It provides easy access for people with disabilities, or the elderly. Designed primarily for automatic opening applications that occasionally require manual opening. The BENCHMARK is a cost-effective solution for retrofitting an activated or manual door.

**Certifications**
Grade 1 - A156.19, UL325, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act

**Handing**
Non-Handed

**Door Width**
- 30” - 48”
- 30” minimum door width for 27”
- 36” door width only for full length pull operator

**Warranty**
2 years

**Cover**
- Metal 27”, standard
- Metal 36”, optional

**Fasteners**
Wood and machine screws

**Mounting**
Single interior door, surface mount, offset pivot / butt hinge (Pull Side)

**Arms**
Standard arm and track

**Finishes/Colors/Powder Coat**
- Anodized aluminum, standard
- Dark bronze, optional

Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.

Special Templates
### Mounting details

#### Top Jamb Single Door Mounting

- **Butt Hinges**: Should not exceed 5˝ (127 mm) in width
- **Reveal**: Should not exceed 1/8˝ (3 mm)
- **Head Frame**: Minimum 2˝ (51 mm)
- **Top Rail**: Minimum 2˝ (51 mm)
- **Opening and Closing Time**: Variable by adjustments to the electronic control module located on the operator assembly. Maximum hold open time adjustable up to approximately 30 seconds
- **System Diagram**: See “AUTOMATIC OPERATORS” section page 51 for typical system wiring and page 53 for electrical data
- **Maximum Opening**: Template allows 90 degree power opening and 90 degree manual opening

**Notes:**
- Push 'N Go permits non-switch activation with a microprocessor control box that ensures reliability and maintains customer settings
- Power boost allows for increased closing force near latch
- On/off switch is included as standard
- All potentiometers are clearly labeled with their functions
- LED lights indicate power to control box and motor gearbox
**Motor Gearbox**

- **9130-3454S**
  - Motor Gearbox Assembly
  - Driving mechanism for operator (switch included)
  - For 27” unit

**Control Box**

- **9130-3454**
  - Motor Gearbox Assembly (W/O Switch)
  - Driving mechanism for operator (switch not included)
  - For full length 36” unit

- **9130-3462**
  - Control Box (120v)
  - Electronic controlling device with power supply output and power boost feature for Benchmark

**Brackets**

- **9130-3018**
  - Mounting Bracket
  - Standard

- **9130-3351-2**
  - Switch Bracket
  - 41” cable
  - Bracket used to locate switch at end of cover on full length unit

**Covers**

- **9130-72MC**
  - Metal Cover
  - Non-handed
  - 27”
  - Extruded aluminum
  - Standard

- **9130-72FC**
  - Full Metal Cover
  - Non-handed
  - 36”
  - Extruded aluminum

- **9130-163**
  - Cover Insert
  - Used to cover operator shaft opening (includes 2 pieces)

- **9130-163-1**
  - Cover End Cap Insert
  - Used to cover switch hole opening

- **9130-334**
  - Cover End Cap
  - Black plastic
  - Includes 9130-163-1 cover and cap insert
**9130 Series Benchmark**

**Tracks**

- **9130-3038 Standard Track**
  - Non-handed
  - Standard

- **9130-73 Track End Cap**
  - Black plastic

- **9130-3034 Roller Assembly**
  - Quiet low friction

**Arms**

- **9130-3077T Standard Arm**
  - Non-handed
  - Track roller not included

- **9130-3077PLCM Standard Arm**
  - Non-handed
  - Standard non-handed track
How-to-order 9130 Series closers

Specify Finish
☐ Standard Anodized Finish __________
   Aluminum or Dark Bronze

Operator options

Cover
☐ 36” Full Cover

Operator will be shipped with:
- Standard motor gearbox
- Standard control box
- Mounting bracket
- 27” metal cover
- Standard arm (3077t)
- Standard track w/track roller
- Wood and machine screw pack
   unless options listed below are selected

Table of sizes

<table>
<thead>
<tr>
<th>Door width</th>
<th>30”</th>
<th>48”</th>
</tr>
</thead>
<tbody>
<tr>
<td>762mm</td>
<td></td>
<td>1219mm</td>
</tr>
</tbody>
</table>

9131

Minimum door width

Indicates recommended range of door width for operator.

NOTE: For All Benchmark Series.
30” minimum door width for 27” pull operator.
36” door width only for full length pull operator.
The 9140 BENCHMARK by LCN is an electrically powered low-energy operator. It provides easy access for people with disabilities, or the elderly. Designed primarily for automatic opening applications that occasionally require manual opening. The BENCHMARK is a cost-effective solution for retrofitting an activated or manual door.

<table>
<thead>
<tr>
<th>Certifications</th>
<th>Grade 1 - ANSI A156.19, UL325/228, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handing</td>
<td>Non-Handed</td>
</tr>
<tr>
<td>Door Width</td>
<td>26” - 48”</td>
</tr>
<tr>
<td></td>
<td>26” minimum door width for 27”</td>
</tr>
<tr>
<td></td>
<td>36” door width only for full length pull operator</td>
</tr>
<tr>
<td>Warranty</td>
<td>2 years</td>
</tr>
<tr>
<td>Fasteners</td>
<td>Wood and machine screws</td>
</tr>
<tr>
<td>Mounting</td>
<td>Single interior door, surface mount, offset pivot / butt hinge (Push Side)</td>
</tr>
<tr>
<td>Arms</td>
<td>Regular arm</td>
</tr>
<tr>
<td>Finishes/Colors/Powder Coat</td>
<td>Anodized aluminum, standard</td>
</tr>
<tr>
<td></td>
<td>Dark bronze, optional</td>
</tr>
</tbody>
</table>

Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.

**Features**

- **Templates**
  - Customized installation templates or products may be available to solve unusual applications.
  - Contact LCN Product Support for assistance.
Top Jamb Single Door Mounting

**Butt Hinges**: Should not exceed 5” (127 mm) in width

**Reveal**: Push installations should not exceed 6” (152 mm) for REGULAR ARM and 9-3/4” (248 mm) for LONG ARM

**Head Frame**: Minimum 2” (51 mm)

**Top Rail**
- Minimum 2” (51 mm)
- Flush ceiling installation requires 5-1/4” (133 mm) minimum

**Opening and Closing Time**
- Variable by adjustments to the electronic control module located on the operator assembly
- Maximum hold open time adjustable up to approximately 30 seconds

**System Diagram**: See "AUTOMATIC OPERATORS" section pages 54 for typical system wiring and page 55 for electrical data

**Maximum Opening**: Template allows 90 degree power opening and 90 degree manual opening

**Notes:**
- Push 'N Go permits non-switch activation with a microprocessor control box that ensures reliability and maintains customer settings
- Power boost allows for increased closing force near latch
- On/off switch is included as standard
- All potentiometers are clearly labeled with their functions
- LED lights indicate power to control box and motor gearbox
Motor Gearbox

9140-3454S
Motor Gearbox Assembly
- Driving mechanism for operator (switch included)
- For 27” unit

9140-3454
Motor Gearbox Assembly (W/O Switch)
- Driving mechanism for operator (switch not included)
- For full length unit (36”)

Control Box

9130-3462
Control Box (120v)
- Electronic controlling device with power supply output and power boost feature for Benchmark

Brackets

9140-3018
Mounting bracket
- Standard

9140-3351-1
Switch Bracket
- 29” cable
- Used with a 36” door
- Used to locate switch at end of cover on full length unit

Covers

9140-72MC
Metal Cover
- Non-handed
- 27”
- Extruded aluminum cover
- Standard

9140-72FC
Full Metal Cover
- Non-handed
- 36”
- Extruded aluminum cover

9140-163
Cover Insert
- Used to cover operator shaft opening (includes 2 pieces)

9140-163-1
Cover End Cap Insert
- Used to cover switch hole opening

9140-334
Cover End Cap
- Black plastic
- Includes 9130-163-1 cover and cap insert
9140 Series Benchmark

Accessories

Arms

9140-3077
Regular arm
- Non-handed

9140-3077L
Long push arm
- Non-handed

9140-79
Rod and shoe
- For use with regular arm

9140-79LR
Long rod and shoe
- Used with long arm, for deep reveals
How-to-order 9140 Series closers

Specify Finish
☐ Standard Anodized Finish __________
   Aluminum or Dark Bronze

Operator options

Cover
☐ 36” Full Cover

Arm
☐ Long Arm (3077L) (reveals 6” to 9-3/4”)

Operator will be shipped with:
- Standard motor gearbox
- Standard control box
- Mounting bracket
- 27” metal cover
- Standard arm (3077)
- Standard track w/track roller
- Wood and machine screw pack
  unless options listed below are selected

Table of sizes

<table>
<thead>
<tr>
<th>Door width</th>
<th>26” 660mm</th>
<th>48” 1219mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>9142</td>
<td>Minimum door width</td>
<td></td>
</tr>
</tbody>
</table>

Indicates recommended range of door width for operator.

NOTE: For All Benchmark Series.
30” minimum door width for 27” pull operator.
36” door width only for full length pull operator.
The 9150 BENCHMARK by LCN is an electrically powered low-energy operator. It provides easy access for people with disabilities, or the elderly. Designed primarily for automatic opening applications that occasionally require manual opening. The BENCHMARK is a cost-effective solution for retrofitting an activated or manual door.

<table>
<thead>
<tr>
<th>Certifications</th>
<th>Grade 1 - ANSI A156.19, UL325/228 ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handing</td>
<td>Non-Handed</td>
</tr>
<tr>
<td>Templating</td>
<td>Peel-n-Stick templates - 2-3/8” x 6-3/4” Mounting Hole Pattern</td>
</tr>
</tbody>
</table>
| Door Width     | Minimum door width 52” - 96”  
|                | 72” door width only for full length double operator                                              |
| Warranty       | 2 years                                                                                           |

| Cover          | Metal, standard                                                                                  |
| Fasteners      | Wood and machine screws                                                                           |
| Mounting       | Pair of doors, surface mount, offset pivot / butt hinges (Push Side)                              |
| Arms           | Regular arms                                                                                      |
| Finishes/Colors/Powder Coat | Anodized aluminum, standard                                                                 |
|                | Dark bronze, optional                                                                             |

Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.
Top jamb, Independent/ Simultaneous Pair Mounting

**Mounting details**

**Butt Hinges**
- Should not exceed 5” (127 mm) in width

**Reveal**
- Push installations should not exceed 6” (152 mm) for REGULAR ARM and 9-3/4” (248 mm) for LONG ARM

**Head Frame**
- Minimum 2” (51 mm)

**Top Rail**
- Minimum 2” (51 mm)
- Flush ceiling installation requires 5-1/4” (133 mm) minimum

**Opening and Closing Time**
- Variable by adjustments to the electronic control module located on the operator assembly
- Maximum hold open time adjustable up to approximately 32 seconds

**System Diagram**
- See “AUTOMATIC OPERATORS” section pages 54 for typical system wiring and page 55 for electrical data

**Maximum Opening**
- Template allows 90 degree power opening and 90 degree manual opening

**Notes:**
- Determined by wiring
- Push N’ Go permits non-switch activation with a microprocessor control box that ensures reliability and maintains customer settings
- Power boost allows for increased closing force near latch
- All potentiometers clearly labeled with their functions
- LED lights indicate power to control box and motor gearbox

---

**Offset pivot/butt hinge, center pivot, push**
Motor Gearbox

9150-3454S
Motor Gearbox Assembly
- Driving mechanism for operator (switch included)

Control Box

9150-3462
Control Box (120v)
- Electronic controlling device with power supply output and power boost feature for Benchmark

Brackets

9150-3018
Mounting Bracket
- Standard

Covers

9150-72MC
Metal Cover
- Non-handed
- 72”
- Extruded aluminum cover
- Standard

9150-163
Cover Insert
- Used to cover operator shaft opening (includes 2 pieces)

9150-163-1
Cover End Cap Insert
- Used to cover switch hole opening

9150-334
Cover End Cap
- Black plastic
- Includes 9130-163-1 cover and cap insert

Arms

9150-3077
Regular arm
- Non-handed

9150-3077L
Long arm
- Non-handed

9150-79
Rod and shoe
- For use with regular arm

9150-79LR
Long rod and shoe
- Used with long arm, for deep reveals
How-to-order 9150 Series closers

Specify Finish
☐ Standard Anodized Finish
     Aluminum or Dark Bronze

Operator options

Arm
☐ Long Arm (3077L) (Reveals 6˝ to 9-3/4˝)

Operator will be shipped with:
- Standard motor gearbox (2 ea)
- Standard control box (2 ea)
- Mounting bracket (2 ea)
- 72˝ metal cover
- Standard arm (2 ea)
- Wood and machine screw pack
unless options listed below are selected

Table of sizes

Notes:
• For 9150 Benchmark Series
• 72˝ door width only for full length push double door operator.
Digital Control Suite
Provides exceptionally precise control of a large range of built-in functions combined with superior durability and performance. Visual indications and digital readouts of all control function settings and activity make adjustments easy, fast and accurate.

Dual Independent Program Memories
Each unit is pre-programmed to factory default settings. The installer can adjust the unit to meet the job site requirements. These field settings are locked into the computer’s memory. Any subsequent field adjustments replace the original field adjustments. The factory settings are always retained in memory and can be recalled to replace the field settings in just seconds, restoring the unit to its original programming.

On-Board Diagnostics
Sophisticated built-in diagnostics program monitors the system microprocessor, power supplies, drive systems, actuators and safety circuits. Reduces the time required to make sure the installation is complete and correct.

On-Board Power Supply
Provides 24V AC output or 24V DC output with rectifier to power card readers, manual actuators and other peripherals.

Plug and Play Sensors
Motion sensors and safety sensors feature a “plug and play” concept allowing fast and accurate wiring connections in only seconds.

Electronic Circuit Protection
High voltage (primary AC input) is protected by replaceable fuse. Low voltage (secondary AC output) is protected by self-resetting fuses.

Visual Function Indicators
LED Display allows direct observation of these inputs while in visual function indicator mode:
- Key switch- set to Auto, OFF or HOLD
- Activate
- DMSS approach
- DMSS safety
- Bodyguard
- Power Boost Disable

Programming Mode
Allows tailoring the following functions to meet specific site conditions:
- Opening Speed
- Backcheck Speed
- Backcheck Position
- Hold Open Delay
- Latch Position
- Auto Reverse - Closing
- Electric Lock Delay
- Power Boost
- Push N’ Go
- Alternate Action
- Safety Slow/Stop
- Slow Down Disable

Push ‘N Go
Allows pedestrians to walk up to the door and push it open as if it were a manual door. After the door is manually opened approximately 5 degrees, the Push ‘N Go feature takes over and continues to open the door – slowly and automatically to the full open position. With Push ‘N Go, the door will stay fully open from one to 30 seconds, depending on the time delay chosen.

Auto Reverse
A safety feature that reverses the direction of the door when it comes into contact with an object during either opening or closing.

Safety Slow/ Stops Function
Once the door starts opening, any person or object entering the swing area will cause the door to go into a safety slow speed. This function can be set to allow for a short stop once a person or object is sensed.

Power Boost
Adds an additional latching force to ensure secure latching in severe wind or stack conditions. Power Boost is also ideal for overcoming slowing obstacles such as electric strikes. Provides approximately 25 lbs. of total closing force.

Microprocessor
Control unit allows for quiet efficiency in operation. Combined with the all electromechanical unit, it eliminates unnecessary wear and prolongs the life of the unit.

Electric Lock Delay
Causes a 1 second delay between activate signal and door opening to allow time for most electric locks to disengage before operator opens door.
The 2810 SENIOR SWING by LCN is an ADA door operator that is a two-in-one swing door operator. SENIOR SWING operator when activated, opens doors automatically for wheelchair access, yet allows for manual operation for regular pedestrian traffic.

<table>
<thead>
<tr>
<th>Certifications</th>
<th>Grade 1 - ANSI A156.19, UL325, UL1998, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handing</td>
<td>Handed</td>
</tr>
<tr>
<td>Door Width</td>
<td>Minimum door width 33&quot; - 48&quot; 49&quot; with finger guard. Note: Single door width per leaf 33&quot; minimum, 48&quot; maximum</td>
</tr>
<tr>
<td>Warranty</td>
<td>2 years</td>
</tr>
</tbody>
</table>

**Fasteners**
- Wood and machine screws

**Mounting**
- Single door, overhead concealed, center pivot, offset pivot, butt hinge

**Arms**
- Center Pivot Arm or Offset Pivot Arm

**Finishes/Colors/Powder Coat**
- Anodized Aluminum
- Anodized Dark Bronze

---

**Features**

### Special Templates

Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.

---

**Available**

- Surface Mount Single Door
- Surface Mount Simultaneous Pair
- Concealed Single Door
- Concealed Simultaneous Pair
- Handed
- Non-Handed
- Standard Anodized
- Standard Single Lever
- Standard Double Lever
- Regular (Double Lever / Push / Pull)
- Offset Pivot Butt Hinge Arm
- Center Pivot Arm

**Not Available**

- Surf Ace Mount Single Door
- Surf Ace Mount Simultaneous Pair
- Surf Ace Mount Independent Pairs
- Concealed Single Door
- Concealed Simultaneous Pair
- Concealed Independent Pairs
- Available

---

**2810 Series**

**Senior Swing**

---

LCN Door Control Catalog
Concealed Single Door Mounting

Head Frame
Minimum 36” (L) x 5-3/4” (H) x 4-1/2” (W) (914 mm x 146 mm x 114 mm)

Top Rail
Minimum 2” (51 mm)

Opening and Closing Time
- Variable by adjustments to the electronic control box
- Maximum hold open time adjustable up to approximately 32 seconds

Door Stop
Required for each door panel

System Diagram
See “AUTOMATIC OPERATORS” section page 51 for typical system wiring and page 53 for electrical data

Maximum Opening
Template allows 90 degree power opening and 90 degree manual opening
- Minimum header length 33” with applied stop by others and 36” with LCN fixed or breakaway stop

Notes:
- Push N' Go permits non-switch activation
- Power boost provides additional latch forcing for electromechanical unit with microprocessor control
- Double door header available up to 98”, specify length 49” to 98” maximum (Consult factory regarding this option)
- Fixed (positive) or breakaway stop available with center pivot arm
- Adjustable hold open time of 1-32 seconds
### Concealed Single Door Mounting

**Mounting details**

<table>
<thead>
<tr>
<th>Component</th>
<th>Minimum Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Head Frame</td>
<td>33˝ (L) x 5-3/4˝ (H) x 4-1/2˝ (W)</td>
</tr>
<tr>
<td>Top Rail</td>
<td>2˝</td>
</tr>
<tr>
<td>Opening and Closing Time</td>
<td>Variable by adjustments to the electronic control box</td>
</tr>
<tr>
<td></td>
<td>Maximum hold open time adjustable up to approximately 32 seconds</td>
</tr>
<tr>
<td>Door Stop</td>
<td>Required for each door panel</td>
</tr>
<tr>
<td>System Diagram</td>
<td>See &quot;AUTOMATIC OPERATORS&quot; section page 51 for typical system wiring and page 53 for electrical data</td>
</tr>
<tr>
<td>Maximum Opening</td>
<td>Template allows 90 degree power opening and 90 degree manual opening</td>
</tr>
</tbody>
</table>

- Minimum header length 33˝
- Installations require bottom pivot and two intermediate pivots

**Notes:**

- Push N’ Go permits non-switch activation
- Power boost provides additional latch forcing for electromechanical unit with microprocessor control
- Double door header available up to 98˝; specify length 49˝ to 98˝ maximum (Consult factory regarding this option)
- Fixed (positive) or breakaway stop available with center pivot arm
- Adjustable hold open time of 1-32 seconds
### Motor Gearbox

- **2810-3454**
  - Motor Gearbox
  - Senior swing
  - Handed
  - Driving mechanism for operator
  - Provides maximum 15 lbs opening force

### Mount Brackets

- **2810-375**
  - Mounting Bracket
  - Motor gearbox mounting bracket for 3-3/4” offset pivot, butt hinge or center pivot with finger guard installations
  - Front bracket

- **2810-275**
  - Mounting Bracket
  - Motor gearbox mounting bracket for 2-3/4” center pivot installations
  - Front bracket

- **2810-3018**
  - Rear Mounting Bracket
  - Motor gearbox mounting bracket
  - Rear bracket

### Control Box

- **2810-3462**
  - Control Box
  - Senior swing
  - Electronic controlling device for Senior Swing

### Headers

- **2810-3572HL**
  - Header
  - Standard
  - Single door, single operator
  - Specify length 33” to 49” maximum

- **2810-3572DD**
  - Header
  - Standard
  - Double door, single operator
  - Specify length 49” to 98” maximum

### End Cap

- **2810-334**
  - Header End Caps
  - Wth openings for wiring

### Arms

- **2810-3077CP**
  - Center Pivot Arm
  - Center pivot installations only
  - Used with overhead concealed operators and center pivoted doors

- **2810-3077OP**
  - Offset Pivot Arm
  - Offset pivot or butt hung installations only
  - Used with overhead concealed operators

- **2810-3077 OPCM**
  - Offset Pivot Arm Assembly
  - Offset arm with track and concealing channel (includes 3072 concealing channel, 168 slide channel and 3077OP offset pivot arm)
### Channels

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2810-3072</td>
<td>Concealing Channel &lt;ul&gt;&lt;li&gt;Used to conceal arm in overhead concealed applications&lt;/li&gt; &lt;li&gt;For offset pivot installations only&lt;/li&gt; &lt;li&gt;If ordering separately specify length and hand&lt;/li&gt;&lt;/ul&gt;</td>
</tr>
<tr>
<td>2810-168</td>
<td>Slide channel &lt;ul&gt;&lt;li&gt;Offset pivot or butt hinge installations only&lt;/li&gt; &lt;li&gt;Mounts in top rail of door&lt;/li&gt; &lt;li&gt;Allows arm to slide&lt;/li&gt;&lt;/ul&gt;</td>
</tr>
</tbody>
</table>

### Installation Accessories

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2810-384B</td>
<td>Door Stop Breakaway &lt;ul&gt;&lt;li&gt;Allows in-swinging door to swing out in case of emergency&lt;/li&gt; &lt;li&gt;Disables operator in breakaway mode&lt;/li&gt; &lt;li&gt;For center pivot installations only&lt;/li&gt;&lt;/ul&gt;</td>
</tr>
<tr>
<td>2810-384F</td>
<td>Door Stop Fixed &lt;ul&gt;&lt;li&gt;Prevents out-swinging door from swinging in&lt;/li&gt; &lt;li&gt;For center pivot installations only&lt;/li&gt;&lt;/ul&gt;</td>
</tr>
</tbody>
</table>

### Pivots

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2810-3107</td>
<td>Bottom Pivot Assembly &lt;ul&gt;&lt;li&gt;Includes pivot body, pivot post and bottom pivot plate&lt;/li&gt; &lt;li&gt;For overhead concealed, center pivoted installations&lt;/li&gt; &lt;li&gt;Includes: 2810-107, 2810-110 and 2810-117&lt;/li&gt;&lt;/ul&gt;</td>
</tr>
<tr>
<td>2810-107</td>
<td>Bottom Pivot Body &lt;ul&gt;&lt;li&gt;For center pivot installations&lt;/li&gt;&lt;/ul&gt;</td>
</tr>
<tr>
<td>2810-107</td>
<td>Bottom Pivot Body &lt;ul&gt;&lt;li&gt;For center pivot installations&lt;/li&gt;&lt;/ul&gt;</td>
</tr>
<tr>
<td>2810-110</td>
<td>Pivot Post &lt;ul&gt;&lt;li&gt;Connects pivot body to bottom pivot plate for center pivot installations&lt;/li&gt;&lt;/ul&gt;</td>
</tr>
<tr>
<td>2810-117</td>
<td>Bottom Pivot Plate &lt;ul&gt;&lt;li&gt;Applied to floor for center pivot installations&lt;/li&gt;&lt;/ul&gt;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2810-12</td>
<td>Filler Plate Blank &lt;ul&gt;&lt;li&gt;Completes length of header box&lt;/li&gt;&lt;/ul&gt;</td>
</tr>
</tbody>
</table>
How-to-order 2810 Series

Select installation type
☐ 2811

Specify arm
☐ 3-3/4˝ (Offset pivoted) Arm (3077OP)
☐ 2-3/4˝ (Center pivoted) Arm (3077CP)
☐ 3-3/4˝ (Center pivoted) Arm (3077CP)

Specify hand
☐ RH
☐ LH

Specify header/length
☐ HL__ (Specify length 33˝ to 49˝ offset pivot)
☐ HL__ (Specify length 36˝ to 49˝ center pivot)
☐ DD__ (Specify length 49˝ to 98˝)

Specify finish
☐ Standard Anodized Finish ______________
☐ Aluminum or Dark Bronze

Operator options

Stops
☐ Positive Mechanical Stop (POS)
☐ Panic Breakaway Stop (BKY)
*Available with Center Pivot installations only

Table of sizes

<table>
<thead>
<tr>
<th>Door width</th>
<th>33˝</th>
<th>48˝</th>
</tr>
</thead>
<tbody>
<tr>
<td>838mm</td>
<td></td>
<td>1219mm</td>
</tr>
</tbody>
</table>

2811

Minimum door width

Indicates recommended range of door width for operator.

NOTE: For all Senior Swing Series
  Single Door - Width per leaf 33˝ minimum, 48˝ maximum
The 2850 SENIOR SWING by LCN is an ADA door operator that is a two-in-one swing door operator. SENIOR SWING operator when activated, opens doors automatically for wheelchair access, yet allows for manual operation for regular pedestrian traffic.

<table>
<thead>
<tr>
<th>Certifications</th>
<th>Grade 1 - ANSI A156.19, UL325, UL1998, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluid</td>
<td>All Weather Fluid</td>
</tr>
<tr>
<td>Handing</td>
<td>Handed</td>
</tr>
<tr>
<td>Door Width</td>
<td>- Combined width min 52” - 96”&lt;br&gt;- Simultaneous pair - width per leaf 26” minimum to 48” maximum</td>
</tr>
<tr>
<td>Warranty</td>
<td>2 years</td>
</tr>
</tbody>
</table>

| Fasteners       | Wood and machine screw pack                                                                      |
| Mounting        | Double door, overhead concealed, center pivot, offset pivot, butt hinge                         |
| Arms            | Offset Pivot Arm or Center Pivot Arm                                                             |
| Finishes/Colors/Powder Coat | Anodized Aluminum  
|                  | Anodized Dark Bronze                                                                            |

Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.

**Features**

- Special Templates
- AVAILABLE
- NOT AVAILABLE

* For double egress only.
2850 Series Senior Swing

Mounting details

Concealed Simultaneous Pair

### Head Frame
- Minimum 52” (L) x 5-3/4” (H) x 4-1/2” (W) (1524 mm x 146 mm x 114 mm)

### Top Rail
- Minimum 2” (51 mm)

### Opening and Closing Time
- Variable by adjustments to the electronic control box
- Maximum hold open time adjustable up to approximately 32 seconds.

### Door Stop
- Required for each door panel

### System Diagram
- See “AUTOMATIC OPERATORS” section page 51 for typical system wiring and page 53 for electrical data

### Maximum Opening
- Template allows 90 degree power opening and 90 degree manual opening

---

**Notes:**
- Push N’ Go permits non-switch activation with power boost providing additional latching force
- Electromechanical unit with microprocessor control
- 36” header length is standard, specify length 33” - 49” max
- Double header available 98”, specify length 49” - 98” max
- Fixed (positive) or breakaway stop available with center pivot arm
- Adjustable hold open time of 1-32 seconds
- Actuators available separately, see pages 115-131

---

**Center pivot, emergency breakaway, pull**
- Shown w/ 3-3/4” pivot

---

**Center pivot, fixed stop, push**
- Shown w/ 3-3/4” pivot
### Head Frame
Minimum 52½" (L) x 5-3/4" (H) x 4-1/2" (W) (1324 mm x 146 mm x 114 mm)

### Top Rail
Minimum 2" (51 mm)

### Opening and Closing Time
- Variable by adjustments to the electronic control box
- Maximum hold open time adjustable up to approximately 32 seconds

### Door Stop
Required for each door panel

### System Diagram
See “AUTOMATIC OPERATORS” section page 51 for typical system wiring and page 53 for electrical data

### Maximum Opening
Template allows 90 degree power opening and 90 degree manual opening

**Notes:**
- Push N’ Go permits non-switch activation with power boost providing additional latching force
- Electromechanical unit with microprocessor control
- 36” header length is standard, specify length 33” - 49” max
- Double header available 98”, specify length 49” - 98” max
- Fixed (positive) or breakaway stop available with center pivot arm
- Adjustable hold open time of 1-32 seconds
- Actuators available separately, see pages 115-131

**Offset pivot or butt hinge, slide arm, push**
*Shown w/ 3-3/4” pivot*
## 2850 Series
### Senior Swing

### Accessories

<table>
<thead>
<tr>
<th><strong>Motor Gearbox</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2850-3454</strong></td>
</tr>
<tr>
<td>Motor Gearbox</td>
</tr>
<tr>
<td>Senior swing</td>
</tr>
<tr>
<td>Driving mechanism for operator</td>
</tr>
<tr>
<td>Provides maximum 15 lbs opening force</td>
</tr>
<tr>
<td>Handed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Mount Brackets</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2850-375</strong></td>
</tr>
<tr>
<td>Mounting Bracket</td>
</tr>
<tr>
<td>Motor gearbox mounting bracket for 3-3/4” offset pivot, butt hinge or center pivot with finger guard installations</td>
</tr>
<tr>
<td>Front bracket</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Control Box</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2850-3462</strong></td>
</tr>
<tr>
<td>Control box</td>
</tr>
<tr>
<td>Senior swing</td>
</tr>
<tr>
<td>Electronic controlling device for Senior Swing</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Header</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2850-3572HL</strong></td>
</tr>
<tr>
<td>Header</td>
</tr>
<tr>
<td>Mounting header</td>
</tr>
<tr>
<td>Pair door, two operators</td>
</tr>
<tr>
<td>Specify length 52” to 98” maximum</td>
</tr>
<tr>
<td>Standard</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>End Cap</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2850-334</strong></td>
</tr>
<tr>
<td>Header End Caps</td>
</tr>
<tr>
<td>End cap with openings for wiring</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Arms</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2850-3077CP</strong></td>
</tr>
<tr>
<td>Center pivot arm</td>
</tr>
<tr>
<td>Center pivot installations only</td>
</tr>
<tr>
<td>Used with overhead concealed operators and center pivoted doors</td>
</tr>
</tbody>
</table>

| **2850-3077OP**  |
| Offset pivot arm |
| Offset pivot or butt hung installations only |
| Handed |
| Used with overhead concealed operators |

| **2850-3077OPCM**  |
| Offset Pivot Arm Assembly |
| Offset arm with track and concealing channel |
| Includes 3072 Concealing Channel, 168 Slide Channel and 30770P offset pivot arm |

---

*LCN Door Control Catalog*
Channels

2850-3072 Concealing Channel
- Used to conceal arm in overhead concealed applications
- For offset pivot installations only
- If ordering separately specify length and hand

2850-168 Slide Channel
- Offset pivot or butt hinge installations only
- Mounts in top rail of door
- Allows arm to slide

2810 Series

Installation Accessories

2850-384B Door Stop Breakaway
- Allows in-swinging door to swing out in case of emergency
- For center pivoted installations only

2850-384F Door Stop Fixed
- Prevents out-swinging door from swinging in
- For center pivoted installations only

Pivots

2850-3107 Bottom Pivot Assembly
- Includes pivot body, pivot post and bottom pivot plate
- For overhead concealed, center pivoted installations
- Includes: 2850-107, 2850-110 and 2850-117

2810-107 Bottom Pivot Body
- Pivot body for center pivoted installations

2850-12 Filler Plate Blank
- Completes length of header box

2850-11A Spindle Plate
- Hides bottom of motor gearbox
- Completes header box
- Cutout allows for motor gearbox shaft
- For 2-3/4˝ center pivot installations

2850-110 Pivot Post
- Connects pivot body to bottom pivot plate for center pivoted installations

2850-117 Bottom Pivot Plate
- Applied to floor for center pivoted installations

2850-11B Spindle Plate
- Hides bottom of motor gearbox
- Completes header box
- Cutout allows for motor gearbox shaft
- For 3-3/4˝ offset pivot, butt hinge or center pivot with finger guard installations

2850 Series
Senior Swing
Accessories
How-to-order 2850 Series

Select installation type
- 2853

Specify arm
- 3-3/4” (Offset pivoted) Arm (3077OP)
- 2-3/4” (Center pivoted) Arm (3077CP)
- 3-3/4” (Center pivoted) Arm (3077CP)

Specify hand
- RH
- LH

Specify header/length
- HL (Specify length 52” to 98”)

Specify finish
- Standard Anodized Finish ______________
  - Aluminum or Dark Bronze

Operator options

Stops*
- Pair Positive Mechanical Stop (POS)
- Pair Panic Breakaway Stop (BKY)

*Available with Center Pivoted installations only

Table of sizes

<table>
<thead>
<tr>
<th>Door width</th>
<th>Minimum door width</th>
</tr>
</thead>
<tbody>
<tr>
<td>52”</td>
<td>1524mm</td>
</tr>
<tr>
<td>96”</td>
<td>2438mm</td>
</tr>
</tbody>
</table>

Indicates recommended range of door width for operator.

NOTE: For all Senior Swing Series
Simultaneous Pair – Width per leaf 26” minimum to 48” maximum.
The 2860 SENIOR SWING by LCN is an ADA door operator that is a two-in-one swing door operator. SENIOR SWING operator when activated, opens doors automatically for wheelchair access, yet allows for manual operation for regular pedestrian traffic.

<table>
<thead>
<tr>
<th>Certifications</th>
<th>Grade 1 - ANSI A156.19, UL325/228, UL1998, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handing</td>
<td>Handed</td>
</tr>
</tbody>
</table>
| Door Width              | - Minimum combined door with 52” - 96”  
                          - Simultaneous pair - width per leaf 26” minimum to 48” maximum                           |
| Warranty                | 2 years                                                                                           |
| Fasteners               | Wood and machine screw packs                                                                     |
| Mounting                | Independent pair, overhead concealed, center pivot, offset pivot, butt hinge                     |
| Arms                    | Offset Pivot Arm or Center Pivot Arm                                                              |
| Finishes/Colors/Powder Coat |  
                          - Anodized Aluminum  
                          - Anodized Dark Bronze                                                                             |

**Features**

- **Templates**: Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.

- **Special Templates**

- **MOUNTING**
  - Surface Mount Single Door
  - Surface Mount Simultaneous Pair
  - Concealed Simultaneous Pair
  - Concealed Independent Pair

- **HANDING**
  - Handed
  - Non-Handed

- **FINISH**
  - Standard Anodized
  - Standard (Single Lever)
  - Regular (Double Egress/Push/Pull)

- **COVER**
  - Center Pivot Arm

- **ARM FUNCTION**
  - Offset Pivot Butt Hinge Arm

* For double egress only.
**2860 Series Senior Swing**

**Concealed Independent Pair**

**Mounting details**

**Head Frame**
- Minimum 65” (L) x 5 3/4” (H) x 4 1/2” (W) (1651 mm x 146 mm x 114 mm)

**Top Rail**
- Minimum 2” (51 mm)

**Opening and Closing Time**
- Variable by adjustments to the electronic control box
- Maximum hold open time adjustable up to approximately 32 seconds.

**Door Stop**
- Required for each door panel

**System Diagram**
- See "AUTOMATIC OPERATORS" section page 51 for typical system wiring and page 53 for electrical data

**Maximum Opening**
- Template allows 90 degree power opening and 90 degree manual opening

---

**Note:**
- Push N' Go permits non-switch activation with power boosts providing additional latching force
- Electromechanical unit with microprocessor control
- Digital keypad for easy setup
- 72” header length is standard. Specify other length 65” - 98” max. Consult factory with this option
- Adjustable hold time of 1-32 seconds
- Actuators available separately, see pages 115-131
2860 Series
Senior Swing

Mounting details

Concealed Independent Pair

**Head Frame**
Minimum 65” (L) x 5-3/4” (H) x 4-1/2” (W) (1651 mm x 146 mm x 114 mm)

**Top Rail**
Minimum 2” (51 mm)

**Opening and Closing Time**
- Variable by adjustments to the electronic control box
- Maximum hold open time adjustable up to approximately 32 seconds

**Door Stop**
Required for each door panel

**System Diagram**
See “AUTOMATIC OPERATORS” section page 51 for typical system wiring and page 53 for electrical data

**Maximum Opening**
Template allows 90 degree power opening and 90 degree manual opening

**Notes:**
- Offset pivot installations require a bottom pivot and two intermediate pivots
- Push N’ Go permits non-switch activation with power boosts providing additional latching force
- Electromechanical unit with microprocessor control
- Digital keypad for easy setup
- 72” header length is standard. Specify other length 65” - 98” max. Consult factory with this option
- Optional fixed (POS) or breakaway stop (BKY) available (center pivot arm)
- Header lengths 70” - 98” max with either POS or BKY
- Adjustable hold time of 1-32 seconds
- Actuators available separately, see pages 115-131
### Motor Gearbox
- **2860-3454 Motor gearbox**
  - Senior swing
  - Handed
  - Driving mechanism for operator
  - Provides maximum 15 lbs opening force

### Mount Brackets
- **2860-375 Mounting Bracket**
  - Motor gearbox mounting bracket for 3-3/4” offset pivot, butt hinge or center pivot with finger guard installations
  - Front bracket

- **2860-275 Mounting Bracket**
  - Motor gearbox mounting bracket for 2-3/4” center pivot installations
  - Front bracket

- **2860-3018 Rear Mounting Bracket**
  - Motor gearbox mounting bracket
  - Rear bracket

### Control Box
- **2860-3462 Control box**
  - Electronic controlling device for Senior Swing

### Header
- **2860-3572HL Mounting Header**
  - Pair door, two operators
  - Specify length 65” to 98” maximum
  - Standard

### End Cap
- **2860-334 Header End Caps**
  - With openings for wiring

### Arms
- **2860-3077CP Center Pivot Arm**
  - Center pivot installations only
  - Used with overhead concealed operators and center pivoted doors

- **2860-3077OP Offset Pivot Arm**
  - Offset pivot or butt hung installations only
  - Used with overhead concealed operators

- **2860-3077OPCM Offset Pivot Arm Assembly**
  - Offset arm with track and concealing channel
  - Includes 3072 Concealing Channel, 168 Slide Channel and 3077OP offset pivot arm
## Channels

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2860-3072</td>
<td>Concealing Channel</td>
</tr>
<tr>
<td></td>
<td>Used to conceal arm in overhead concealed applications</td>
</tr>
<tr>
<td></td>
<td>For offset pivot installations only</td>
</tr>
<tr>
<td></td>
<td>If ordering separately specify length and hand</td>
</tr>
<tr>
<td>2860-168</td>
<td>Slide Channel</td>
</tr>
<tr>
<td></td>
<td>Offset pivot or butt hinge installations only</td>
</tr>
<tr>
<td></td>
<td>Mounts in top rail of door</td>
</tr>
<tr>
<td></td>
<td>Allows arm to slide</td>
</tr>
</tbody>
</table>

## Installation Accessories

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2860-384B</td>
<td>Door Stop Breakaway</td>
</tr>
<tr>
<td></td>
<td>Allows in-swinging door to swing out in case of emergency</td>
</tr>
<tr>
<td></td>
<td>For center pivoted installations only</td>
</tr>
<tr>
<td>2860-384F</td>
<td>Door Stop Fixed</td>
</tr>
<tr>
<td></td>
<td>Prevents out-swinging door from swinging in</td>
</tr>
<tr>
<td></td>
<td>For center pivoted installations only</td>
</tr>
</tbody>
</table>

## Pivots

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2860-3107</td>
<td>Bottom Pivot Assembly</td>
</tr>
<tr>
<td></td>
<td>Includes pivot body, pivot post and bottom pivot plate</td>
</tr>
<tr>
<td></td>
<td>For overhead concealed, center pivoted installations</td>
</tr>
<tr>
<td></td>
<td>Includes: 2860-107, 2860-110 and 2860-117</td>
</tr>
<tr>
<td>2860-107</td>
<td>Bottom Pivot Body</td>
</tr>
<tr>
<td></td>
<td>Pivot body for center pivoted installations</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2860-110</td>
<td>Pivot Post</td>
</tr>
<tr>
<td></td>
<td>Connects pivot body to bottom pivot plate for center pivoted installations</td>
</tr>
<tr>
<td>2860-117</td>
<td>Bottom Pivot Plate</td>
</tr>
<tr>
<td></td>
<td>Applied to floor for center pivoted installations</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2860-11A</td>
<td>Spindle Plate</td>
</tr>
<tr>
<td></td>
<td>Hides bottom of motor gearbox</td>
</tr>
<tr>
<td></td>
<td>Completes header box</td>
</tr>
<tr>
<td></td>
<td>Cutout allows for motor gearbox shaft</td>
</tr>
<tr>
<td></td>
<td>For 2-3/4” center pivot installations</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2860-11B</td>
<td>Spindle Plate</td>
</tr>
<tr>
<td></td>
<td>Hides bottom of motor gearbox</td>
</tr>
<tr>
<td></td>
<td>Completes header box</td>
</tr>
<tr>
<td></td>
<td>Cutout allows for motor gearbox shaft</td>
</tr>
<tr>
<td></td>
<td>For 3-3/4” offset pivot, butt hinge or center pivot with finger guard installations</td>
</tr>
</tbody>
</table>
2860 Series
Senior Swing
Ordering Information

How-to-order 2860 Series

Select installation type
☐ 2863

Specify arm
☐ 3-3/4” (Offset pivoted) Arm (3077OP)
☐ 2-3/4” (Center pivoted) Arm (3077CP)
☐ 3-3/4” (Center pivoted) Arm (3077CP)

Specify hand
☐ RH
☐ LH

Specify header/length
☐ HL__ (Specify length 65” to 98”)

Specify finish
☐ Standard Anodized Finish ______________
   Aluminum or Dark Bronze

Operator options

Stops*
☐ Pair Positive Mechanical Stop (POS)
☐ Pair Panic Breakaway Stop (BKY)
*Available with Center Pivoted installations only

Select installation type
☐ 2863

Specify arm
☐ 3-3/4” (Offset pivoted) Arm (3077OP)
☐ 2-3/4” (Center pivoted) Arm (3077CP)
☐ 3-3/4” (Center pivoted) Arm (3077CP)

Specify hand
☐ RH
☐ LH

Specify header/length
☐ HL__ (Specify length 65” to 98”)

Specify finish
☐ Standard Anodized Finish ______________
   Aluminum or Dark Bronze

Operator will be shipped with:
- Standard motor gearbox (1 LH & 1 RH)
- Standard control box (2 ea)
- Header (at specified length - 72” standard)
- 2-3/4” pivot point
- Wood and machine screw pack
  unless options listed below are selected.

Table of sizes

<table>
<thead>
<tr>
<th>Door width</th>
<th>Minimum door width</th>
</tr>
</thead>
<tbody>
<tr>
<td>65” 1651mm</td>
<td>2863</td>
</tr>
<tr>
<td>96” 2438mm</td>
<td></td>
</tr>
</tbody>
</table>

Indicates recommended range of door width for operator.

NOTE: For all Senior Swing Series
Independent Pair – Width per leaf 32-1/2” minimum to 48” maximum
The 9530 SENIOR SWING by LCN is an ADA door operator that is a two-in-one swing door operator. SENIOR SWING operators when activated, opens doors automatically for wheelchair access, yet allows for manual operation for regular pedestrian traffic.

**Certifications**
- Grade 1 - ANSI A156.19, UL325/228, UL1998, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act

**Fluid**
- All Weather Fluid

**Handing**
- Handed

**Door Width**
- Minimum 33” – 48”
- Single door - width per leaf 33” minimum, 48” maximum

**Warranty**
- 2 years

**Fasteners**
- Machine screw pack

**Mounting**
- Single door, surface mount, offset pivot. butt hinge, pull side

**Arms**
- Standard arm (3077T)

**Finishes/Colors/ Powder Coat**
- Anodized Aluminum
- Anodized Dark Bronze

---

**Features**

**Templates**
Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.
**9530 Series Senior Swing**

**Top Jamb Single Door Mounting**

**Mounting details**

**Offset pivot/butt hinge, center pivot, pull**

*NOTE: Cannot be used with swing clear hinges, pocket pivots or balanced doors.*

The 18 plate is 6-3/4" thick and will need to be ordered 3-1/2" longer than the header to allow for mounting the angle brackets to the vertical side jambs. See illustration below.

**Butt Hinges**

Should not exceed 5" (127 mm) in width

**Reveal**

Should not exceed 4" (102 mm)

**Head Frame**

Minimum 1-3/4" (44 mm). Face frame 6-3/4" (171 mm) total operator clearance

**Top Rail**

Minimum 2-3/4" (70 mm)

**Opening and Closing Time**

- Variable by adjustments to the electronic control box
- Maximum hold open time adjustable up to approximately 32 seconds

**System Diagram**

See "AUTOMATIC OPERATORS" section page 51 for typical system wiring and page 53 for electrical data

**Maximum Opening**

Template allows 90 degree power opening and 90 degree manual opening

Notes:
- Push N' Go permits non-switch activation with a power boost providing additional latching force
- Electromechanical unit with microprocessor control
- Digital keypad for easy setup
- 36" header length is standard. Specify 33" - 48" max
- Double door header available up to 98", specify other length 49" - 98" max
- Consult factory regarding this option
- Adjustable hold open period of 2 - 32 seconds in automatic or manual mode
- Actuators available separately, see pages 115-131

---

**INCOMING**

4-3/4" 121 mm

5-3/4" 146 mm

1-3/4" 44 mm

1" 25 mm

6-3/4" 171 mm

4-3/4" 121 mm

11-1/2" 297 mm

2-3/4" 70 mm

1-15/16" 49 mm

1-3/4" 44 mm

17-3/8" 446 mm

2-1/2" 64 mm

48" Door Opening (Max.)

Swing Operator

Butt Hinges

Offset Pivot or Butt Hinges

Pull Arm Assembly

Left Hand INCOMING

The length of universal 18 plate will need to be ordered 3-1/2" longer than the supplied header.

Install the plate securely to the frame using field generated mounting holes.

**Hollow metal frame**

Suggested Installation.

**Pull Arm Assembly**

48" Door Opening (Max.)

Swing Operator

Pull Arm Assembly

Offset Pivot or Butt Hinges

Left Hand INCOMING

1-3/4" 44 mm

Shim behind plate by others

Swing Operator

4-1/2"

Hollow Metal Frame

1-3/4"

Pull Channel

Swing Direction

Door

Universal 18 plate

Bottom of frame rabbet & bottom of 18 plate

The 18 plate is 6-3/4" thick and will need to be ordered 3-1/2" longer than the header to allow for mounting the angle brackets to the vertical side jambs. See illustration below.

**Notes:**
- Push N' Go permits non-switch activation with a power boost providing additional latching force
- Electromechanical unit with microprocessor control
- Digital keypad for easy setup
- 36" header length is standard. Specify 33" - 48" max
- Double door header available up to 98", specify other length 49" - 98" max
- Consult factory regarding this option
- Adjustable hold open period of 2 - 32 seconds in automatic or manual mode
- Actuators available separately, see pages 115-131
9530 Series
Senior Swing
Accessories

Motor Gearbox

9530-3454 Motor Gearbox
- Senior swing
- Handed
- Driving mechanism for operator
- Provides maximum 15 lbs opening force

Mount Brackets

9530-275 Mounting Bracket
- Motor gearbox mounting bracket for 2-3/4” offset pivot or butt hinge installations
- Front bracket

9530-3018 Rear Mounting Bracket
- Motor gearbox mounting bracket
- Rear bracket

9530-334-1 Angled Bracket
- Mounting bracket for surface applications (includes 2 mounting brackets)

Control Box

9530-3462 Control Box
- Electronic controlling device for Senior Swing

Headers

9530-3572HL Header
- Standard
- Single door, single operator
- Specify length 33” to 48” maximum

9530-3572DD Header
- Standard
- Double door, single operator
- Specify length 49” to 98” maximum

End Caps

9530-334 Header End Caps
- With openings for wiring

9530-334-2 End Dress Plate
- Metal finish end cap
9530 Series
Senior Swing

Accessories

Arms

9530-3077PLCM
Standard Arm Assembly
- Handed
- Track roller included (includes 3038, 3077T, 3034 & 73)

9530-3077T
Standard Arm
- Handed
- Track roller not included

Tracks

9530-3038
Track
- Non-handed
- Includes 3034 & 73

9530-73
Track End Cap
- Black plastic end caps

9530-3034
Roller
- Quiet low friction roller assembly

Installation Assembly

9530-11A
Spindle Plate
- Hides bottom of motor gearbox
- Completes header box
- Cutout allows for motor gearbox shaft
- For 2-3/4˝ offset pivot or butt hinge installations

9530-12
Filler
- Plate blank
- Completes length of header box (specify Length)

9530-18
Mounting Plate
- Optional mounting plate for standard hollow metal door frames
- Specify length 36-1/2˝ to 101-1/2˝ maximum, when angle brackets
- Specify length 33˝ to 98˝ maximum when using end dress plates

NOTE: The length of a universal 18 plate will need to be ordered 3-1/2˝ longer than the supplied header when using angle brackets.
How-to-order 9530 Series closers

Specify hand
- RH
- LH

Specify header/length
- HL __ (Specify length 33” to 48”)
- DD __ (Specify length 49” to 98”)

Specify finish
- Standard Anodized Finish ____________
  Aluminum or Dark Bronze

Operator options

Mounting plate
- Plate ___ (Specify Length 33” to 101-1/2”)

Operator will be shipped with:
- Standard motor gearbox
- Standard control box
- Header (at specified length, 36” standard)
- Standard arm (3077T)
- 2-3/4” pivot point
- Standard track w/track roller
- Machine screw pack

unless options listed below are selected

Table of sizes

<table>
<thead>
<tr>
<th>Door width</th>
<th>33”</th>
<th>48”</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>838mm</td>
<td>1219mm</td>
</tr>
</tbody>
</table>

NOTE: For all Senior Swing Series.
Single Door - Width per leaf 33” minimum, 48” maximum.
The 9540 SENIOR SWING by LCN is an ADA door operator that is a two-in-one swing door operator. SENIOR SWING operators when activated, opens doors automatically for wheelchair access, yet allows for manual operation for regular pedestrian traffic.

<table>
<thead>
<tr>
<th>Certification</th>
<th>Grade 1 - ANSI A156.19, UL325/228, UL1998, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluid</td>
<td>All Weather Fluid</td>
</tr>
<tr>
<td>Handing</td>
<td>Handed</td>
</tr>
<tr>
<td>Door Width</td>
<td>- Minimum door width 33” - 48”&lt;br&gt;- Single door - width per leaf 33” minimum, 48” maximum</td>
</tr>
<tr>
<td>Warranty</td>
<td>2 years</td>
</tr>
</tbody>
</table>

| Fasteners     | Machine screw pack                                                                               |
| Mounting      | Single door, surface mount, offset pivot, butt hinge (Push Side)                                 |
| Arms          | Regular Arm (3077)                                                                               |
| Finishes/Colors/Powder Coat | Anodized Aluminum  
|                | Anodized Dark Bronze                                                                           |

**Special Templates**

Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.
9540 Series
Senior Swing

Mounting details
Top Jamb Single Door Mounting

Butt Hinges
Should not exceed 5˝ (127 mm) in width

Reveal
Push installations should not exceed 10˝ (254 mm) for REGULAR ARM and 20˝ (508 mm) for LONG ARM

Head Frame
Minimum 1-3/4˝ (44 mm). Face frame 6-3/4˝ (171 mm) total operator clearance

Top Rail
Minimum 2-3/4˝ (70 mm)

Opening and Closing Time
- Variable by adjustments to the electronic control box
- Maximum hold open time adjustable up to approximately 32 seconds

System Diagram
See "AUTOMATIC OPERATORS" section page 51 for typical system wiring and page 53 for electrical data

Maximum Opening
Template allows 90 degree power opening and 90 degree manual opening

Notes:
- Push N’ Go permits non-switch activation with a power boost providing additional latching force
- Electromechanical unit with microprocessor control
- Digital keypad for easy setup
- 36˝ header length is standard. Specify 33˝ - 48˝ max
- Double door header available up to 98˝, specify other length 49˝ - 98˝ max
- Adjustable hold open period of 2 - 32 seconds in automatic or manual mode
- Actuators available separately, see pages 115-131

The 18 plate is 6-3/4˝ thick and will need to be ordered 3-1/2˝ longer than the header to allow for mounting the angle brackets to the vertical side jambs. See illustration below.

Hollow metal frame
Suggested Installation.
### Motor Gearbox
- **9540-3454 Motor Gearbox**
  - Senior swing
  - Handed
  - Driving mechanism for operator
  - Provides maximum 15 lbs opening force

### Mount Brackets
- **9540-275 Mounting Bracket**
  - Motor gearbox mounting bracket for 2-3/4” offset pivot or butt hinge installations
  - Front bracket
- **9540-301B Rear Mounting Bracket**
  - Motor gearbox mounting bracket
  - Rear bracket
- **9540-334-1 Angled Bracket**
  - Mounting bracket for surface applications (includes 2 mounting brackets)

### Control Box
- **9540-3462 Control Box**
  - Electronic controlling device for Senior Swing

### Headers
- **9540-3572HL Header**
  - Single door, single operator
  - Specify length 33” to 48” maximum
  - Standard
- **9540-3572DD Header**
  - Double door, single operator
  - Specify length 49” to 98” maximum
  - Standard

### End Caps
- **9540-334 Header End Caps**
  - With openings for wiring
- **9540-334-2 End Dress Plate**
  - Metal finish end cap
9540 Series
Senior Swing

Accessories

Arms

9540-3077
Regular Arm Assembly
- Handed
- Includes 77 main arm assembly and 79 linkage assembly

9540-3077L
Regular Long Arm Assembly
- Handed
- Includes 77 main arm assembly and 79LR linkage assembly

9540-77
Main Arm
- Handed
- Attaches to motor gearbox

Tracks

9540-79
Linkage Assembly - 15”
- Threaded rod attaches to door
- Extends from main arm

9540-79LR
Linkage Assembly - 32”
- Threaded long rod attaches to door
- Extends from main arm.
- Used for reveal 10” to 20”

Installation Accessories

9540-11A
Spindle Plate
- Hides bottom of motor gearbox
- Completes header box
- Cutout allows for motor gearbox shaft
- For 2-3/4” offset pivot or butt hinge installations

9540-12
Filler Plate Blank
- Completes length of header box (specify length)

9540-18
Mounting Plate
- For standard hollow metal door frames
- Specify length 55-1/2” to 101-1/2” maximum when using angle brackets
- Specify length 52” to 98” maximum when using dress plates
- Optional

NOTE: The length of a universal 18 plate will need to be ordered 3-1/2” longer than the supplied header when using angle brackets.
9540 Series
Senior Swing

How-to-order 9540 Series closers

Specify hand
☐ RH
☐ LH

Specify header/length
☐ HF __ (Specify length 33” to 48”)
☐ DD __ (Specify length 49” to 98”)

Specify finish
☐ Standard Anodized Finish ______________
  Aluminum or Dark Bronze

Operator options

Mounting plate
☐ Plate ___. (Specify Length 33” to 101-1/2”)

Arm
☐ Long Arm (3077L)

Table of sizes

<table>
<thead>
<tr>
<th>Door width</th>
<th>33” (838mm)</th>
<th>48” (1219mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9542</td>
<td>Minimum door width</td>
<td></td>
</tr>
</tbody>
</table>

Indicates recommended range of door width for operator.

NOTE: For all Senior Swing Series.
Single Door - Width per leaf 33” minimum, 48” maximum.
The 9550 SENIOR SWING by LCN is an ADA door operator that is a two-in-one swing door operator. SENIOR SWING operators when activated, opens doors automatically for wheelchair access, yet allows for manual operation for regular pedestrian traffic.

**Certifications**
Grade 1 - ANSI A156.19, UL325/228, UL1998, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act

**Handing**
Handed

**Door Width**
- Minimum combined door width 52” - 98” (push)
- Minimum combined door width 60” - 98” (pull; double egress)
- Simultaneous pair - width per leaf 30” minimum - 48” maximum

**Warranty**
2 years

**Fasteners**
Machine screw pack

**Mounting**
Simultaneous pair, surface mount, pull side, push side, double egress

**Arms**
- 2 Regular Arms (push)
- 2 Standard Arms (pull)
- 1 Regular and 1 Standard (double egress)

**Finishes/Colors/Powder Coat**
- Anodized Aluminum
- Anodized Dark Bronze

**Special Templates**
Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.

### Features

<table>
<thead>
<tr>
<th>MOUNTING</th>
<th>HANDBING</th>
<th>FINISH</th>
<th>COVER</th>
<th>ARM FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Mount Single Door</td>
<td>Handed</td>
<td>Standard Anodized</td>
<td>Standard Pivot Arm</td>
<td>Available</td>
</tr>
<tr>
<td>Surface Mount Simultaneous Pair</td>
<td>Non-Handed</td>
<td>Standard Metal</td>
<td>Offset Pivot Arm</td>
<td>Not Available</td>
</tr>
<tr>
<td>Concealed Single Door</td>
<td></td>
<td>Regular (Double Lever)</td>
<td>Center Pivot Arm</td>
<td></td>
</tr>
<tr>
<td>Concealed Simultaneous Pair</td>
<td></td>
<td>Regular (Single Lever)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
9550 Series
Senior Swing

Mounting details
Top Jamb Simultaneous Pair Mounting

Offset pivot/butt hinge, center pivot, push
Consult factory for all balanced door installations.

Offset pivot/butt hinge, center pivot, pull
NOTE: Cannot be used with swing clear hinges, pocket pivots or balanced doors.

Butt Hinges
Should not exceed 5” (127 mm) in width

Reveal for push
Should not exceed 10” (254 mm) for REGULAR ARM and 20” (508 mm) for LONG ARM

Reveal for pull
Should not exceed 4” (102 mm)

Reveal
Double egress installations should not exceed 4” (102 mm)

Head Frame
- Minimum 1-3/4” (44 mm)
- Face frame 6-3/4” (171 mm) total operator clearance

Top Rail
Minimum 2-3/4” (70 mm)

Opening and Closing Time
- Variable by adjustments to the electronic control box
- Maximum hold open time adjustable up to approximately 32 seconds.

Door Stop
Required for each door panel

System Diagram
See “AUTOMATIC OPERATORS” section page 51 for typical system wiring and page 53 for electrical data

Maximum Opening
Template allows 90 degree power opening and 90 degree manual opening

Notes:
- Push N’ Go permits non-switch activation with a power boost providing additional latching force
- Electromechanical unit with microprocessor control
- Digital keypad for easy setup
- 72” header length is standard. Specify other length 52” - 98” (push), specify other length 60” - 98” (pull; double egress). Consult factory regarding this option
- Adjustable hold open period of 2 - 32 seconds in automatic or manual mode
- Actuators available separately, see pages 115-131
RH double egress

Double egress applications with safety sensors require LCN 9560 series.

NOTE: Cannot be used with swing clear hinges, pocket pivots or balanced door.

The 18 plate is 6-3/4” thick and will need to be ordered 3-1/2” longer than the header to allow for mounting the angle brackets to the vertical side jambs. See illustration below.

### Hollow metal frame

**Suggested Installation.**

- **Butt Hinges**
  - Should not exceed 5” (127 mm) in width

- **Reveal for push**
  - Should not exceed 10” (254 mm) for REGULAR ARM and 20” (508 mm) for LONG ARM

- **Reveal for pull**
  - Should not exceed 4” (102 mm)

- **Reveal**
  - Double egress installations should not exceed 4” (102 mm)

- **Head Frame**
  - Minimum 1-3/4” (44 mm)
  - Face frame 6-3/4” (171 mm) total operator clearance

- **Top Rail**
  - Minimum 2-3/4” (70 mm)

- **Opening and Closing Time**
  - Variable by adjustments to the electronic control box
  - Maximum hold open time adjustable up to approximately 32 seconds.

- **Door Stop**
  - Required for each door panel

- **System Diagram**
  - See "AUTOMATIC OPERATORS" section page 51 for typical system wiring and page 53 for electrical data

- **Maximum Opening**
  - Template allows 90 degree power opening and 90 degree manual opening

**Notes:**
- Push N' Go permits non-switch activation with a power boost providing additional latching force
- Electromechanical unit with microprocessor control
- Digital keypad for easy setup
- 72” header length is standard. Specify other length 52” - 98” (push), specify other length 60” - 98” (pull; double egress). Consult factory regarding this option
- Adjustable hold open period of 2 - 32 seconds in automatic or manual mode
- Actuators available separately, see pages 115-131
9550 Series
Senior Swing

Motor Gearbox

9550-3454 Motor Gearbox
- Senior swing
- Handed
- Driving mechanism for operator
- Provides maximum 15 lbs opening force

Mount Brackets

9550-275 Mounting Bracket
- Motor gearbox mounting bracket for 2-3/4" offset pivot or butt hinge installations
- Front bracket

9550-301B Rear Mounting Bracket
- Motor gearbox mounting bracket

9550-334-1 Angled Bracket
- Mounting bracket for surface applications (includes 2 mounting brackets)

Control Box

9550-3462 Control Box
- Electronic controlling device for Senior Swing

Header

9550-982 Companion Cable
- Cable that allows one control box to run two motor gear boxes
- For use with Senior Swing

9550-3572HL Header
- Pair door, two operators
- Specify other length 52” to 98” (Push)
- Specify other length 60” to 98” (Pull; Double Egress)
- Standard

End Caps

9550-334 Header End Caps
- With openings for wiring

9550-334-2 End Dress Plate
- Metal finish end cap
### Tracks

- **9550-3038 Track**
  - Non-handed
  - Standard

- **9550-73 Track End Cap**
  - Black plastic end caps

- **9550-3034 Roller**
  - Quiet low friction roller assembly

### Arms

- **9550-3077Pacman Standard Arm Assembly**
  - Handed
  - Includes 3077 regular arm assembly, 3038 track, and 3034 track roller

- **9550-3077 Regular Arm Assembly**
  - Handed
  - Includes 77 main arm assembly and 79 linkage assembly

- **9550-3077L Regular Long Arm Assembly**
  - Handed
  - Includes 77 main arm assembly and 79LR linkage assembly

- **9550-3077T Standard Arm**
  - Handed
  - Track roller not included

- **9550-77 Main Arm**
  - Handed
  - Attaches to motor gearbox

- **9550-79 Linkage Assembly**
  - 15”
  - Threaded rod attaches to door
  - Extends from main arm

- **9550-79LR Linkage Assembly**
  - 32”
  - Threaded long rod attaches to door
  - Extends from main arm
  - Used for reveal 10” to 20”

### Installation Assembly

- **9550-11A Spindle Plate**
  - Hides bottom of motor gearbox
  - Completes header box
  - Cutout allows for motor gearbox shaft
  - For 2-3/4” offset pivot or butt hinge installations

- **9550-12 Filler Plate**
  - Blank
  - Completes length of header box
  - Specify length

- **9550-18 Mounting Plate**
  - Optional mounting plate for standard hollow metal door frames
  - Specify length 68-1/2” to 101-1/2” maximum when using angle brackets
  - Specify length 65” to 98” maximum when using dress plates.

**NOTE:** The length of a universal 18 plate will need to be ordered 3-1/2” longer than the supplied header when using angle brackets.
## How-to-order 9550 Series closers

**Specify hand**
- [ ] RH
- [ ] LH

**Specify header/length**
- [ ] HL__ (Specify length 52” to 98”) regular or long arm
- [ ] HL__ (Specify length 60” to 98”) for standard or DE arm

**Specify finish**
- [ ] Standard Anodized Finish ______________
  - Aluminum or Dark Bronze

### Operator will be shipped with:
- Standard motor gearbox (SF) (2 ea)
- Standard control box (SC)
- Metal cover (at specified length 72” standard)
- Regular arm (2 ea)
- 2-3/4” pivot point
- Machine screw pack
  unless options listed below are selected

### Operator options

**Mounting plate**
- [ ] Plate: ____ (Specify Length 52” to 101-1/2”)

**Arm**
- [ ] Standard Arm (2 ea) w/Standard Track (2 ea)
- [ ] Double Egress includes Standard Arm w/Track (1 ea) & Regular Arm (1 ea)
- [ ] Long Arm (3077L)

### Table of sizes

<table>
<thead>
<tr>
<th>Minimum door width</th>
<th>Combined door width</th>
</tr>
</thead>
<tbody>
<tr>
<td>52”</td>
<td>1321mm</td>
</tr>
<tr>
<td>60”</td>
<td>1524mm</td>
</tr>
<tr>
<td>98”</td>
<td>2489mm</td>
</tr>
</tbody>
</table>

**9550 (Push) 9550 (Pull; Double Egress)**

Indicates recommended range of door width for operator.

**NOTE:** For all Senior Swing Series.
Simultaneous Pair – Width per leaf 26” minimum (push) 30” minimum (pull) to 48” maximum.
The 9560 SENIOR SWING by LCN is an ADA door operator that is a two-in-one swing door operator. SENIOR SWING operators when activated, opens doors automatically for wheelchair access, yet allows for manual operation for regular pedestrian traffic.

**Certifications**
Grade 1 - ANSI A156.19, UL325/228, UL1998, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act

**Handing**
Handed

**Warranty**
2 years

**Cover**
Metal, Standard

**Fasteners**
Machine screw pack

**Mounting**
Independent pair, surface, pull, push, double egress

**Arms**
Single lever (push side), Double lever (Pull Side), Double egress (Push/Pull)

**Finishes/Colors/Powder Coat**
- Anodized Aluminum
- Anodized Dark Bronze

Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.

*For double egress only.*
### 9560 Series Senior Swing

#### Mounting details

**Top Jamb Independent Pair Mounting**

---

**Offset pivot/butt hinge, center pivot, push**

*Consult factory for all balanced door installations.*

---

**Offset pivot/butt hinge, center pivot, pull**

*NOTE: Cannot be used with swing clear hinges, pocket pivots or balanced doors.*

---

### Butt Hinges

- Should not exceed 5” (127 mm) in width

### Reveal for push

- Should not exceed 10” (254 mm) for REGULAR ARM and 20” (508 mm) for LONG ARM

### Reveal for pull

- Should not exceed 4” (102 mm)

### Reveal

- Double egress installations should not exceed 4” (102 mm)

### Head Frame

- Minimum 1-3/4” (44 mm)
- Face frame 6-3/4” (171 mm) total operator clearance

### Top Rail

- Minimum 2-3/4” (70 mm)

### Opening and Closing Time

- Variable by adjustments to the electronic control box
- Maximum hold open time adjustable up to approximately 32 seconds.

### Door Stop

- Required for each door panel

### System Diagram

See “AUTOMATIC OPERATORS” section page 51 for typical system wiring and page 53 for electrical data

### Maximum Opening

- Template allows 90 degree power opening and 90 degree manual opening

#### Notes:

- Push N' Go permits non-switch activation with a power boost providing additional latching force
- Electromechanical unit with microprocessor control
- Digital keypad for easy setup
- 72” header length is standard. Specify 65” - 96” max
- Pull, push, or double egress applications available
- Adjustable hold open period of 2 - 32 seconds in automatic or manual mode
- Actuators available separately. see pages 115-131

---

LCN Door Control Catalog

Rh double egress

NOTE: Cannot be used with swing clear hinges, pocket pivots or balanced doors.

The 18 plate is 6-3/4" thick and will need to be ordered 3-1/2" longer than the header to allow for mounting the angle brackets to the vertical side jambs. See illustration below.

Butt Hinges

Should not exceed 5" (127 mm) in width

Reveal for push

Should not exceed 10" (254 mm) for REGULAR ARM and 20" (508 mm) for LONG ARM

Reveal for pull

Should not exceed 4" (102 mm)

Reveal

Double egress installations should not exceed 4" (102 mm)

Head Frame

- Minimum 1-3/4" (44 mm)
- Face frame 6-3/4" (171 mm) total operator clearance

Top Rail

Minimum 2-3/4" (70 mm)

Opening and Closing Time

- Variable by adjustments to the electronic control box
- Maximum hold open time adjustable up to approximately 32 seconds.

Door Stop

Required for each door panel

System Diagram

See “AUTOMATIC OPERATORS” section page 51 for typical system wiring and page 53 for electrical data

Maximum Opening

Template allows 90 degree power opening and 90 degree manual opening

Notes:
- Push N' Go permits non-switch activation with a power boost providing additional latching force
- Electromechanical unit with microprocessor control
- Digital keypad for easy setup
- 72" header length is standard. Specify 65" - 98" max
- Pull, push, or double egress applications available
- Adjustable hold open period of 2 - 32 seconds in automatic or manual mode
- Actuators available separately, see pages 115-131
### Motor Gearbox
- **9560-3454** Motor Gearbox
  - Senior swing
  - Handed
  - Driving mechanism for operator
  - Provides maximum 15 lbs opening force

### Mounting Brackets
- **9560-275** Mounting Bracket
  - Motor gearbox mounting bracket for 2-3/4” center pivot installations
  - Front bracket
- **9560-3018** Rear Mounting Bracket
  - Motor gearbox mounting bracket
- **9560-334-1** Angled Bracket
  - Mounting bracket for surface applications
  - Includes 2 mounting brackets

### Control Box
- **9560-3462** Control Box
  - Electronic controlling device for Senior Swing

### Header
- **9560-3572HL** Header
  - Pair door, two operators
  - Specify length 65” to 98” maximum
  - Standard

### End Caps
- **9560-334** Header End Caps
  - With openings for wiring
- **9560-334-2** End Dress Plate
  - Metal finish end cap
**Tracks**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>9560-3038</td>
<td>Track</td>
<td>Non-handed, Standard</td>
</tr>
<tr>
<td>9560-73</td>
<td>Track End Cap</td>
<td>Black plastic end caps</td>
</tr>
<tr>
<td>9560-3034</td>
<td>Roller</td>
<td>Quiet low friction roller assembly</td>
</tr>
</tbody>
</table>

**Arms**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>9560-3077T</td>
<td>Standard Arm</td>
<td>Handed, Track roller not included</td>
</tr>
<tr>
<td>9560-3077</td>
<td>Regular Arm Assembly</td>
<td>Handed, Includes 77 main arm assembly and 79 linkage assembly</td>
</tr>
<tr>
<td>9560-3077L</td>
<td>Regular Long Arm Assembly</td>
<td>Handed, Includes 77 main arm assembly and 79LR linkage assembly</td>
</tr>
<tr>
<td>9560-3077PLCM</td>
<td>Standard Arm Assembly</td>
<td>Handed, Includes 3077 regular arm assembly, 3038 track, and 3034 track roller</td>
</tr>
<tr>
<td>9560-77</td>
<td>Main Arm</td>
<td>Handed, Attaches to motor gearbox</td>
</tr>
<tr>
<td>9560-79</td>
<td>Linkage Assembly</td>
<td>15”, Threaded rod attaches to door, Extends from main arm, Used for reveal 1” to 10”</td>
</tr>
<tr>
<td>9560-79LR</td>
<td>Linkage Assembly</td>
<td>32”, Threaded long rod attaches to door, Extends from main arm, Used for reveal 10” to 20”</td>
</tr>
</tbody>
</table>

**Installation Accessories**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>9560-11A</td>
<td>Spindle Plate</td>
<td>Hides bottom of motor gearbox, Completes header box, Cutout allows for motor gearbox shaft, For 2-3/4” offset pivot or butt hinge installations</td>
</tr>
<tr>
<td>9560-12</td>
<td>Filler Plate</td>
<td>Blank, Completes length of header box, Specify length</td>
</tr>
<tr>
<td>9560-18</td>
<td>Mounting Plate</td>
<td>Optional mounting plate for standard hollow metal door frames, Specify length 68-1/2” to 101-1/2” maximum when using angle brackets, Specify length 65” to 98” maximum when using dress plates. NOTE: The length of a universal 18 plate will need to be ordered 3-1/2” longer than the supplied header when using angle brackets.</td>
</tr>
</tbody>
</table>
9560 Series
Senior Swing

Ordering Information

How-to-order 9560 Series

Specify hand
☐ RH
☐ LH

Specify header/length
☐ Hi_ (Specify length 65˝ to 98˝) regular or long arm

Specify finish
☐ Standard Anodized Finish _____________
  Aluminum or Dark Bronze

Operator options

Mounting plate
☐ Plate ___ (Specify Length 65˝ to 101-1/2˝)

Arm
☐ Standard Arm (2 ea) w/Standard Track (2 ea)
☐ Double Egress - Includes Standard Arm w/Track (1 ea) & Regular Arm (1 ea)
☐ Long Arm (3077L)

Table of sizes

<table>
<thead>
<tr>
<th>Combined door width</th>
<th>Minimum combined Door width</th>
</tr>
</thead>
<tbody>
<tr>
<td>65˝ 1651mm</td>
<td></td>
</tr>
<tr>
<td>98˝ 2489mm</td>
<td></td>
</tr>
</tbody>
</table>

Indicates recommended range of door width for operator.

NOTE: For all Senior Swing Series
Independent Pair – Width per leaf 30˝ minimum to 48˝ maximum.
The actuators and accessories on the following pages are to be used with LCN automatic operators. When using actuators supplied by others, such as card readers, consult the factory.

The desired function, traffic patterns and physical design of the opening will determine the type of actuators used. Generally, for two-way traffic, an actuator is required on both the interior and exterior side of the door. Each actuator is packaged with a decal to be applied to the controlled door. Scanners operate on 12V or 24V AC/DC and may be powered by the LCN electrohydraulic/electromechanical operators. The 7900 series control box requires separate power supply for scanners. Actuators provide normally open (N.O.) dry contacts.

**Automatic Operator Actuators & Accessories**

- **8310-856** Wall Mounted Actuator
  - Hardwired low voltage actuator with round, stainless steel touch plate in 4-1/2” (114mm) diameter
  - Engraved blue filled handicap symbol conforms to most accessibility codes
  - Designed to mount in a flush or surface mount box (sold separately) in/on a vertical surface near the controlled door
  - Optional mounting in single gang electrical box (by others)
  - Heavy industrial grade components provide vandal resistant mounting and weather resistant switch standard

- **8310-856T** Wall Mounted Actuator
  - Same as the 8310-856, with the added engraving of “Push to Open”

- **8310-868S** Surface Mount Box
  - Rugged Plastic Box, 4-1/2˝ Round
  - Optional accessory - can be used w/any 4-1/2˝ round actuator

- **8310-800** Weather/Trim Ring
  - Weather/Trim Ring, 4-1/2˝ Round
  - Optional accessory - must be used w/any 4-1/2˝ round plastic mounting box

- **8310-844** Transmitter
  - Transmitter, Wireless, 1 Channel, 9v battery included
  - Use to convert standard wall mount actuator to wireless
  - Requires 8310-865 Receiver

- **8310-868F** Flush Mount Box
  - Rugged Plastic Box, 4-1/2” Round
  - Optional accessory - can be used w/any 4-1/2” round actuator

- **8310-805** Escutcheon
  - Tapered stainless steel escutcheon covers the gap between the wall and the back of the wall plate actuators when mounted in electrical boxes (by others) to minimize cart damage or vandalism
  - Optional accessory - can be used w/any 4-1/2˝ round actuator
  - Not to be used with wireless function
**Automatic Operator Actuators & Accessories**

- **8310-3856WF**
  - Flush Mount Kit
  - Actuator, 4-1/2˝ Round, Logo, Wireless
  - Includes 8310-856 Actuator, 8310-844 Transmitter, 8310-868F Flush Box, 8310-800 Weather/Trim Ring
  - Requires 8310-865 Receiver (not part of kit)

- **8310-3856WS**
  - Surface Mount Kit
  - Actuator, 4-1/2˝ Round, Logo, Wireless
  - Includes 8310-856 Actuator, 8310-844 Transmitter, 8310-868S Surface Box, 8310-800 Weather/Trim Ring
  - Requires 8310-865 Receiver (not part of kit)

- **8310-3856TWF**
  - Flush Mount Kit
  - Actuator, 4-1/2˝ Round, Logo, Text, Wireless
  - Includes 8310-856T Actuator, 8310-844 Transmitter, 8310-868F Flush Box, 8310-800 Weather/Trim Ring
  - Requires 8310-865 Receiver (not part of kit)

- **8310-3856TWS**
  - Surface Mount Kit
  - Actuator, 4-1/2˝ Round, Logo, Text, Wireless
  - Includes 8310-856T Actuator, 8310-844 Transmitter, 8310-868S Surface Box, 8310-800 Weather/Trim Ring
  - Requires 8310-865 Receiver (not part of kit)

- **8310-3860T**
  - Surface Mount Kit
  - Actuator Package, 4-1/2˝ Round
  - Includes 8310-856T (2) Wall Mount Actuator, 8310-868S Surface Mount Box.
  - NOTE: Weather/Trim Rings are sold separately

- **8310-3860TW**
  - Surface Mount Kit
  - Actuator Package, 4-1/2˝ Round, Wireless
  - Includes 8310-856T (2) Wall Mount Actuator, 8310-868S (2) Surface Mount Box, 8310-800 (2) Weather/Trim Ring, 8310-844 (2) Transmitter, 8310-865 Receiver
Automatic Operator Actuators & Accessories

8310-852 Wall Mounted Actuator
- Hardwired low voltage actuator with round, stainless steel touch plate in 6˝ (152mm) diameter
- Engraved blue filled handicap symbol conforms to most accessibility codes
- Designed to mount in a flush or surface mount box (sold separately) in/on a vertical surface near the controlled door
- Optional mounting in single gang electrical box (by others) or double gang box (4” x 4” by others)
- Heavy industrial grade components provide vandal resistant mounting and weather resistant switch standard.

8310-852T Wall Mounted Actuator
- Same as the 8310-852, with the added engraving of “Push to Open”

8310-852WP Wall Mounted Actuator
- Wireless, low profile, low voltage actuator with round, stainless steel touch plate in 6˝ (152mm) diameter
- Engraved blue filled handicap symbol conforms to most accessibility codes
- Surface mount box includes integral transmitter w/ battery and actuator switch
- Heavy industrial grade components provide vandal resistant mounting and weather resistant switch standard
- Requires 8310-865 Receiver

8310-852TWP Wall Mounted Actuator
- Same as the 8310-852WP, with the added engraving of “Push to Open”

8310-869F Flush Mount Box
- Rugged Plastic Box, 6˝ Round
- Optional accessory - can be used w/ any 6˝ round actuator

8310-869S Surface Mount Box
- Rugged Plastic Box, 6˝ Round
- Optional accessory - can be used w/ any 6˝ round actuator

8310-869S Weather/Trim Ring
- Plastic Weather/Trim Ring, 6˝ Round
- Optional accessory - can be used w/ any 6˝ round plastic mounting box.

8310-802 Weather/Trim Ring

8310-876 Escutcheon
- Tapered stainless steel escutcheon covers the gap between the wall and the back of the wall plate actuators when mounted in electrical boxes (by others) to minimize cart damage or vandalism
- Optional accessory - Can be used w/ any 6˝ round actuator
- Not to be used with wireless function

8310-8/444 Transmitter
- Transmitter, Wireless, 1 Channel, 9v battery included
- Use to convert standard wall mount actuator to wireless
- Requires 8310-865 Receiver

8310-865 Receiver
- Receiver, Wireless, 1 Channel, w/ Sequencing Feature
- Used in conjunction w/ Wireless Actuators & Transmitter(s)

8310-802 Weather/Trim Ring
8310 Series
Auto Operator Actuators & Accessories
6” Surface and Flush Mounts

Automatic Operator Actuators & Accessories

8310-3852WF
Flush Mount Kit
- 6” Round, Logo, Wireless
- Includes 8310-852 Actuator, 8310-844 Transmitter, 8310-869F Flush Box, 8310-802 Weather/Trim Ring
- Requires 8310-865 Receiver (not part of kit)

8310-3852WS
Surface Mount Kit
- 6” Round, Logo, Wireless
- Includes 8310-852 Actuator, 8310-844 Transmitter, 8310-869S Surface Box, 8310-802 Weather/Trim Ring
- Requires 8310-865 Receiver (not part of kit)

8310-3852TWF
Flush Mount Kit
- 6” Round, Logo, Text, Wireless
- Includes 8310-852T Actuator, 8310-844 Transmitter, 8310-869F Flush Box, 8310-802 Weather/Trim Ring
- Requires 8310-865 Receiver (not part of kit)

8310-3852TWS
Surface Mount Kit
- 6” Round, Logo, Text, Wireless
- Includes 8310-852T Actuator, 8310-844 Transmitter, 8310-869S Surface Box, 8310-802 Weather/Trim Ring
- Requires 8310-865 Receiver (not part of kit)
NOTE: LCN recommends for all jamb mount actuators be used on an interior installation only.

### Automatic Operator Actuators & Accessories

**8310-818**
Jamb Mounted Actuator
- Hardwired low voltage actuator with rectangular stainless steel touch plate.
- 1-1/2” (38mm) wide by 4-3/4” (121mm)
- Engraved blue filled handicap symbol conforms to most accessibility codes
- Designed to mount in a frame cutout (template provided) projecting approximately 1/2” (12mm) from the frame
- Optional mounting in surface or flush mount box (sold separately)
- Heavy industrial grade components provide vandal resistant mounting and weather resistant switch standard

**8310-819F**
Flush Mount Box
- Rugged Plastic Jamb Box
- 1-1/2” x 4-3/4” rectangle, optional accessory - can be used w/ any 1-1/2” x 4-3/4” jamb mount actuator

**8310-819S**
Surface Mount Box
- Rugged Plastic Jamb Box
- 1-1/2” x 4-3/4”, rectangle
- Optional accessory - can be used w/ any 1-1/2” x 4-3/4” jamb mount plastic mounting box

**8310-844J**
Transmitter
- Wireless, 1 Channel, Jamb Mount, 3v battery included
- Used to convert standard jamb mount actuator to wireless when used w/ 819F or 819S boxes. Requires 8310-865 Receiver (interior use only)

**8310-818T**
Jamb Mounted Actuator
- Same as the 8310-818, with the added engraving of “Push to Open”

**8310-865**
Receiver
- Wireless, 1 Channel, w/ Sequencing Feature
- Used in conjunction w/ Wireless Actuators & Transmitter(s)

**8310-819S**
Surface Mount Box
- Rugged Plastic Jamb Box
- 1-1/2” x 4-3/4”, rectangle
- Optional accessory - can be used w/ any 1-1/2” x 4-3/4” jamb mount plastic mounting box

**8310-844J**
Transmitter
- Wireless, 1 Channel, Jamb Mount, 3v battery included
- Used to convert standard jamb mount actuator to wireless when used w/ 819F or 819S boxes. Requires 8310-865 Receiver (interior use only)

**8310-865**
Receiver
- Wireless, 1 Channel, w/ Sequencing Feature
- Used in conjunction w/ Wireless Actuators & Transmitter(s)
NOTE: LCN recommends for all jamb mount actuators be used on an interior installation only.
**Automatic Operator Actuators & Accessories**

**8310-853**  
Wall Mounted Actuator  
- Hardwired low voltage actuator with stainless steel touch plate in 4-3/4” (121mm) square  
- Engraved blue filled handicap symbol conforms to most accessibility codes  
- Designed to mount in a flush or surface mount box (sold separately) in/on a vertical surface near the controlled door  
- Optional mounting in single gang electrical box (by others) or double gang box (4” x 4” by others) or on an 8310-866 bollard post  
- Heavy industrial grade components provide vandal resistant mounting and weather resistant switch standard

**8310-853T**  
Wall Mounted Actuator  
- Same as the 8310-853, with the added engraving of “Push to Open”

---

**8310-853WP**  
Surface Mounted Actuator  
- Wireless, low profile, low voltage actuator with round, stainless steel touch plate in 4-3/4” (121mm) square  
- Engraved blue filled handicap symbol conforms to most accessibility codes  
- Surface mount box includes integral transmitter w/ battery and actuator switch  
- Heavy industrial grade components provide vandal resistant mounting and weather resistant switch standard  
- Requires 8310-865 Receiver

**8310-853TWP**  
Surface Mounted Actuator  
- Same as the 8310-853WP, with the added engraving of “Push to Open”

---

**8310-867S**  
Surface Mount Box  
- Rugged Plastic Box, 4-3/4” Square  
- Optional accessory - can be used w/ any 4-3/4” square actuator

**8310-867F**  
Flush Mount Box  
- Rugged Plastic Box  
- 4-3/4” Square  
- Optional accessory - can be used w/ any 4-3/4” square actuator

---

**8310-865**  
Receiver  
- Wireless, 1 Channel, w/ Sequencing Feature  
- Used in conjunction w/ Wireless Actuators & Transmitter(s)

**8310-813**  
Touchless Wall Mounted Actuator  
- Hardwired low voltage actuator with plastic plate in 4-3/4” (121mm) square  
- Optional mounting in single gang electrical box (by others) or double gang box (4” x 4” by others)

**8310-813**  
Touchless Wall Mounted Actuator  
- Hardwired low voltage actuator with plastic plate in 4-3/4” (121mm) square  
- Optional mounting in single gang electrical box (by others) or double gang box (4” x 4” by others)

---

**8310-844**  
Transmitter  
- Wireless, 1 Channel, 9v battery included  
- Use to convert standard wall mount actuator to wireless  
- Requires 8310-865 Receiver

---

**8310-865**  
Receiver  
- Wireless, 1 Channel, w/ Sequencing Feature  
- Used in conjunction w/ Wireless Actuators & Transmitter(s)
**8310 Series**

**Auto Operator Actuators & Accessories**

4-3/4" Square Surface and Flush Mounts

---

**Automatic Operator Actuators & Accessories**

**8310-3853WF**

Flush Mount Kit
- Actuator, 4-3/4” Square, Logo, Wireless
- Includes 8310-853, 8310-844 Transmitter, 8310-867F Flush Box, 8310-801 Weather/Trim Ring
- Requires 8310-865 Receiver (not part of kit)

**8310-3853WS**

Surface Mount Kit
- Actuator, 4-3/4” Square, Logo, Wireless
- Includes 8310-853, 8310-844 Transmitter, 8310-867S Surface Box, 8310-801 Weather/Trim Ring
- Requires 8310-865 Receiver (not part of kit)

---

**8310-3853TWF**

Flush Mount Kit
- Actuator, 4-3/4” Square, Logo, Text, Wireless
- Includes 8310-853T, 8310-844 Transmitter, 8310-867F Flush Box, 8310-801 Weather/Trim Ring
- Requires 8310-865 Receiver (not part of kit)

**8310-3853TWS**

Surface Mount Kit
- Actuator, 4-3/4” Square, Logo, Text, Wireless
- Includes 8310-853T, 8310-844 Transmitter, 8310-867S Surface Box, 8310-801 Weather/Trim Ring
- Requires 8310-865 Receiver (not part of kit)

---

**8310-3857T**

Surface Mount Kit
- Actuator Package, 4-3/4” Square
- Includes 8310-853T (2) Wall Mount Actuator, 8310-867S (2)
- Surface Mount Box

**NOTE:** Weather/Trim Rings are sold separately

---

**8310-3857TW**

Surface Mount Kit
- Actuator Package, 4-3/4” Square
- Includes 8310-853T (2) Wall Mount Actuator, 8310-867S (2) Surface Mount Box, 8310-801 (2) Weather/Trim Ring, 8310-844 (2) Transmitter, 8310-865 Receiver
### Automatic Operator Actuators & Accessories

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8310-855</td>
<td>Dual Wall Mounted Actuator</td>
</tr>
<tr>
<td></td>
<td>- Hardwired low voltage actuator with dual rectangle, stainless steel touch plate in 4-3/4” (121mm) square</td>
</tr>
<tr>
<td></td>
<td>- Engraved blue filled handicap symbol w/ text, conforms to most accessibility codes</td>
</tr>
<tr>
<td></td>
<td>- Designed to mount in a flush or surface mount box (sold separately) in/on a vertical surface near the controlled door</td>
</tr>
<tr>
<td></td>
<td>- Optional mounting in double gang box (4” x 4” by others) or on an 8310-866 bollard post</td>
</tr>
<tr>
<td></td>
<td>- Heavy industrial grade components provide vandal resistant mounting and weather resistant switch standard</td>
</tr>
<tr>
<td>8310-867F</td>
<td>Flush Mounted Actuator</td>
</tr>
<tr>
<td></td>
<td>- Rugged Plastic Box, 4-3/4” Square</td>
</tr>
<tr>
<td></td>
<td>- Optional accessory - can be used w/ any 4-3/4” square actuator</td>
</tr>
<tr>
<td>8310-867S</td>
<td>Surface Mount Box</td>
</tr>
<tr>
<td></td>
<td>- Rugged Plastic Box, 4-3/4” Square</td>
</tr>
<tr>
<td></td>
<td>- Optional accessory - can be used w/ any 4-3/4” square actuator</td>
</tr>
<tr>
<td>8310-801</td>
<td>Weather/Trim Ring</td>
</tr>
<tr>
<td></td>
<td>- Plastic Weather Ring, 4-3/4” Square</td>
</tr>
<tr>
<td></td>
<td>- Optional accessory - can be used w/ any 4-3/4” square plastic mounting box</td>
</tr>
<tr>
<td>8310-844</td>
<td>Transmitter</td>
</tr>
<tr>
<td></td>
<td>- Transmitter, Wireless, 1 Channel, 9v battery included</td>
</tr>
<tr>
<td></td>
<td>- Use to convert standard wall mount actuator to wireless</td>
</tr>
<tr>
<td></td>
<td>- Requires 8310-865 Receiver</td>
</tr>
<tr>
<td>8310-865</td>
<td>Receiver</td>
</tr>
<tr>
<td></td>
<td>- Receiver, Wireless, 1 Channel, w/ Sequencing Feature</td>
</tr>
<tr>
<td></td>
<td>- Used in conjunction w/ Wireless Actuators &amp; Transmitter(s)</td>
</tr>
</tbody>
</table>
**8310 Series**

Auto Operator Actuators & Accessories

4-3/4” Dual Square Surface and Flush Mounts

---

**Automatic Operator Actuators & Accessories**

---

### 8310-3855WF
Flush Mount Kit
- Actuator, 4-3/4” Square, Logo, Text, Dual Vestibule, Wireless
- Includes 8310-855 Actuator, 8310-844 Transmitter (2), 8310-867F Flush Box, 8310-801 Weather/Trim Ring
- Requires 8310-865 Receiver (2) (not part of kit)

### 8310-3855WS
Surface Mount Kit
- Actuator, 4-3/4” Square, Logo, Text, Dual Vestibule, Wireless
- Includes 8310-855 Actuator, 8310-844 Transmitter (2), 8310-867S Surface Box, 8310-801 Weather/Trim Ring
- Requires 8310-865 Receiver (2) (not part of kit)

---

### 8310-3853WB
Actuator, Bollard Mount Kit
- 4-3/4” Square w/ Logo, Wireless actuator
- Use w/ 8310-866 Bollard (not included) - Includes 8310-853 actuator, 8310-844 transmitter
- Requires 8310-865 Receiver (not part of kit)

### 8310-3853TWB
Actuator, Bollard Mount Kit
- 4-3/4” Square w/ Logo, Text, Wireless actuator
- Use w/ 8310-866 Bollard (not included) - Includes 8310-853T actuator, 8310-844 Transmitter
- Requires 8310-865 Receiver (not part of kit)
### Automatic Operator Actuators & Accessories

#### 8310-836T
**Full Length Actuator (FLA)**
- Hardwired low voltage actuator with stainless steel touch plate with 36” x 6” activation surface
- Blue handicap symbol conforms with most accessibility codes
- Added “PUSH TO OPEN” lettering for enhanced identification
- Designed to meet California building codes and increase accessibility for wheelchair bound entrants
- Can easily be mounted to any flat surface or a bollard post

#### 8310-836TW
**Flush Length Actuator (FLA)**
- Same as the 8310-836T with a built in wireless transmitter and 3v battery
- Use in conjunction with 8310-865 Receiver (not included)

#### 8310-844
**Transmitter**
- Wireless, 1 Channel, 9v Battery included.
- Used to convert standard actuators to wireless
- Requires 8310-865 Receiver
- Recommended for exterior application with 8310-836T
- Used with the 866FLA bollard post

#### 8310-866FLA
**FLA Bollard Post**
- A powder coated steel 42” x 4” x 6” Bollard Post, mounting base pre prepped for the 8310-836T
- Includes 8310-866 CAP, 2 mounting screws & spacer for installation

#### 8310-836T
**FLA Bollard Mount Kit**
- 36” x 6” Actuator with 8310-866FLA Bollard for wired applications

#### 8310-836TW
**FLA Bollard Mount Kit**
- 36” x 6” Actuator with 8310-866FLA Bollard and 8310-844 wireless Transmitter
- Transmitter requires 8310-865 Receiver (not included)
The sensors and accessories on the following pages are to be used only with LCN automatic operators. When using sensors supplied by others, consult the factory. The desired function, traffic patterns and physical design of the opening will determine the type of sensors used.
Automatic Operator Sensors & Accessories

8310-3881L
Safety Sensor Package
- Activation/Safety Sensor Package, Single Door
- Includes 8310-854 (2) Header Mount Activation Sensor, 8310-877 Header Mount Safety Sensor, 8310-877S Header Mount Spacer, 8310-804-2 Door Mount
- Safety Sensor (approach side), 8310-847 Harness (Used with Senior Swing only)

8310-3881
Safety Sensor Package
- Activation/Safety Sensor Package, Single Door
- Includes 8310-854 (2) Header Mount Activation Sensor, 8310-877 Header Mount Safety Sensor, 8310-877S Header Mount Spacer, 8310-847 Harness, 8310-804-2 (2) Door Mount Safety Sensor (approach/safety side) (Used with Senior Swing only)

8310-3883
Safety Sensor Package
- Activation/Safety Sensor Package, Low Energy Convenience
- Single Door, Includes 8310-804-1 Door Mount Safety
- Sensor (approach side), 8310-805C Door Position Switch (Concealed), 8310-845 Programmable Relay Module (Used with Senior Swing only)
8310 Series
Auto Operator Sensors & Accessories

### Packages

#### Automatic Operator Sensors & Accessories

**8310-3882L**
Safety Sensor Package
- Activation/Safety Sensor Package, Double Door
- Includes 8310-854 (2) Header Mount Activation Sensor, 8310-877 Header Mount Safety Sensor, 8310-877S Header Mount Spacer, 8310-847 (2) Harness, 8310-804-2 (2) Door Mount Safety Sensor (approach side) (Used with Senior Swing only)

NOTE: Not for use with Double Egress

**8310-3882**
Safety Sensor Package
- Activation/Safety Sensor Package, Double Door
- Includes 8310-854 (2) Header Mount Sensor, 8310-877 Header Mount Sensor, 8310-877S Header Mount Spacer, 8310-847 (2) Harness, 8310-804-2 (4) Door Mount Safety Sensor (approach/safety side) (Used with Senior Swing only)

NOTE: Not for use with Double Egress

**8310-3891**
Safety Sensor Package
- Activation/Safety Sensor Package, Health Care I, Simultaneous Pair
- Includes 8310-877 Header Mount Sensor, 8310-877S Header Mount Spacer, 8310-804-2 (4) Door Mount Sensor (approach/safety side), 8310-847 (2) Harness (Used with Senior Swing only)

NOTE: Not for use with Double Egress

**8310-3892**
Safety Sensor Package
- Activation/Safety Sensor Package, Health Care II, Independent Pair,
- Includes 8310-877 (2) Header Mount Sensor, 8310-877S (2) Header Mount Spacer, 8310-804-2 (4) Door Mount Sensor (approach/safety side), 8310-847 (2) Harness (Used with Senior Swing only)

NOTE: Not for use with Double Egress
**8310 Series**

**Auto Operator Sensors & Accessories**

**8310-805**
- Door Position Switch
- Surface mount
- Used when 8310-804-1 or 8310-804-2 Door Mounted Safety Sensor and 8310-845 Relay Module is installed in conjunction w/ either a electrohydraulic, pneumatic or Benchmark Automatic Operator
- Disables approach side sensor when door is closed

**8310-805C**
- Door Position Switch
- Concealed
- Used when 8310-804-1 or 8310-804-2 Door Mounted Safety Sensor and 8310-845 Relay Module is installed in conjunction w/ either a electrohydraulic, pneumatic or Benchmark Automatic Operator
- Disables approach side sensor when door is closed

**8310-824**
- Transformer, 24v,
- Hardwired
- Optional accessory - Used to remotely power any 24v sensor/receiver

**8310-824P**
- Transformer
- 24v, plug in
- Optional accessory - Used to remotely power any 24v sensor/receiver

**8310-854ECA**
- Drop Ceiling Bracket
- Bracket used w/ 8310-854 Header Mount Activation Sensor
- Optional

**8310-854ERA**
- Protective Cover
- Cover used w/ 8310-854 Header Mount Activation Sensor
- Optional

**8310-3803**
- Wireless Conversion Kit
- Jamb mount, 3v
- Converts standard jamb actuator to wireless version
- Includes 8310-865 Receiver, 8310-844J (2) Jamb Mounted
- Transmitter - Requires 8310-819S or 8310-819F Jamb Box

**8310-3809**
- Wireless Conversion Kit
- Jamb mount, 9v
- Converts standard wall mount actuator to wireless version
- Includes 8310-865 Receiver, 8310-844 (2) Wall Mount Transmitter
- Requires Surface or Flush Box and Weather Ring

**8310-3889**
- Safety Module Kit
- Used w/ 7901, 7902, 7981, 7982 Control Boxes.
- Includes 8310-3888 Safety Module Harness. Required when 8310-877 Header Mount Safety Sensor is used w/ Pneumatic
- Automatic Operators (2610, 4810, 4820 or 4840 Series)

**8310-3888**
- Harness
- Safety module, service part
- Safety Module Harness for pneumatic control box
### Automatic Operator Sensors & Accessories

**8310-861** Transmitter
- Wireless
- 1 Channel, Handheld, 3v. Requires 8310-865 Receiver

**8310-862** Transmitter
- Wireless
- 2 Channel, Handheld, 3v. Requires 8310-865 Receiver

**8310-863** Transmitter
- Wireless
- 3 Channel, Handheld, 3v. Requires 8310-865 Receiver

**8310-864** Transmitter
- Wireless
- 4 Channel, Handheld, 3v. Requires 8310-865 Receiver

**8310-866** Bollard Post
- A powder coated steel 42” x 4” x 6” Bollard Post, Mounting Base and 8310-866CAP
- Actuator cut out accepts 8310-3853WB or 8310-3853TWB wireless actuators 4-3/4” square hard wired actuator

**8310-866CAP** Bollard Post
- Plastic Cap, Protective Cover, Service Part for 8310-866 Bollard Post
### Automatic Operator Actuators & Accessories

**8310-806K**
- **Key Switch**
  - Type: 3 Position (On/Off/Hold-Open)
  - Optional switch used with Senior Swing, Benchmark, or 4630/4640 Operators with (CS) option

**8310-806R**
- **Rocker Switch**
  - Type: 3 Position (On/Off/Hold-Open)
  - Optional switch with Senior Swing, Benchmark, or 4630/4640 Operators
  - Operators with (CS) option

**8310-807**
- **Line Filter**
  - AC, 120v, Optional filter used with Senior Operators to reduce 'line noise'

**8310-845**
- **Programmable Relay Module**
  - Used to sequence door operation in Senior Swing and Benchmark for hard wired applications

---

**8310-887**
- **Retrofit Cable**
  - Allows newer style Senior Swing digital control to be activated by existing switches when replacing older control purchased prior to September, 2006

**8310-3134**
- **Retrofit Cable Kit**
  - Allows newer style Senior Swing Digital Control to be activated by existing switches when replacing older control purchased prior to September, 2006.
  - Also includes cables to allow Safety Sensors to activate
  - Includes 8310-887 plus Safety Sensor Cables