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.
- Low Energy Electromechanical Operators ANSI 156.19.
- 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

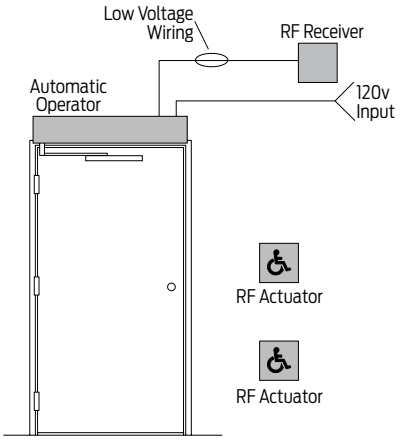
Low Energy Electromechanical Power Operators

- Operators mounted according to the LCN Installation instructions require no periodic maintenance or adjustments.
- Periodic visual inspections are recommended.
- No service contracts.

Electro-mechanical Powered Systems

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



SINGLE DOOR SYSTEM (WIRELESS)

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

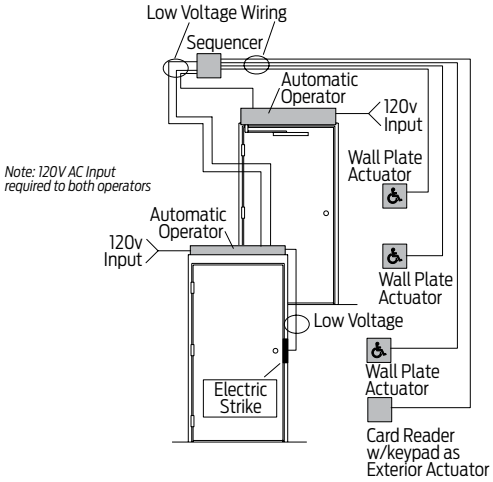
How It Works:

- 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:

Qty.	Part No.	Description
1	9531	Automatic Operator (RH)
2	8310-3853WS	Wireless Actuators
1	8310-865	Wireless Receiver

VESTIBULE ENTRY OPERATION



VESTIBULE ENTRY SYSTEM (WIRED)

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

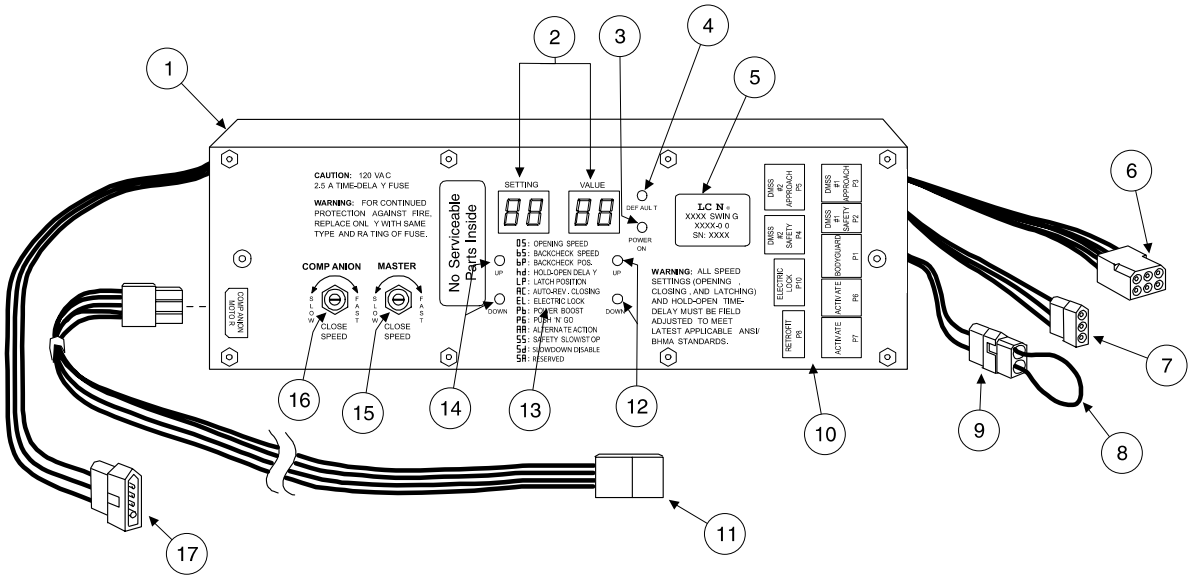
How It Works:

- 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:

Qty.	Part No.	Description
1	9542	Automatic operator (RH)
1	9531	Automatic operator (RH)
3	8310-853	Wall Plate Actuators
1	8310-849	Sequencer

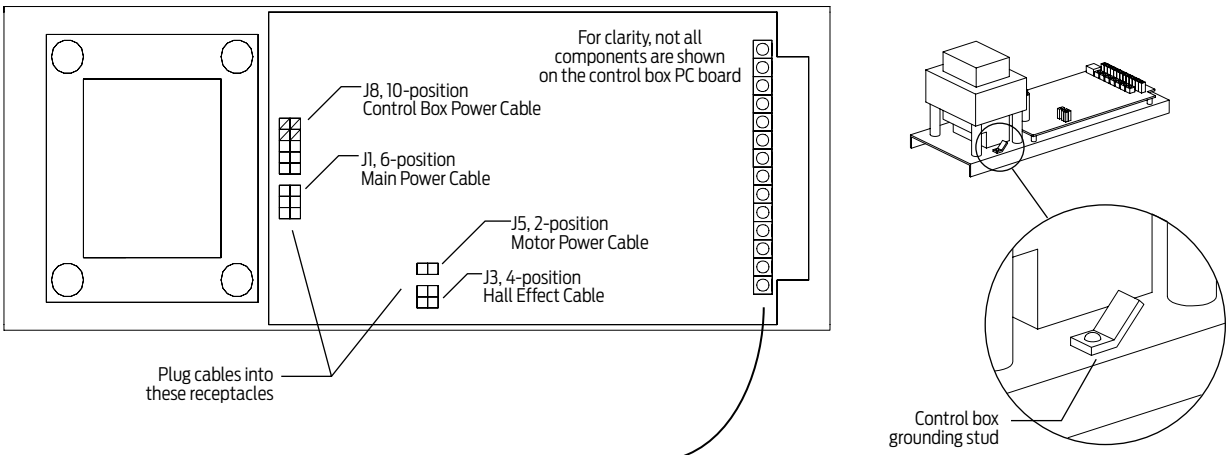
Other products from Von Duprin and Schlage Electronics

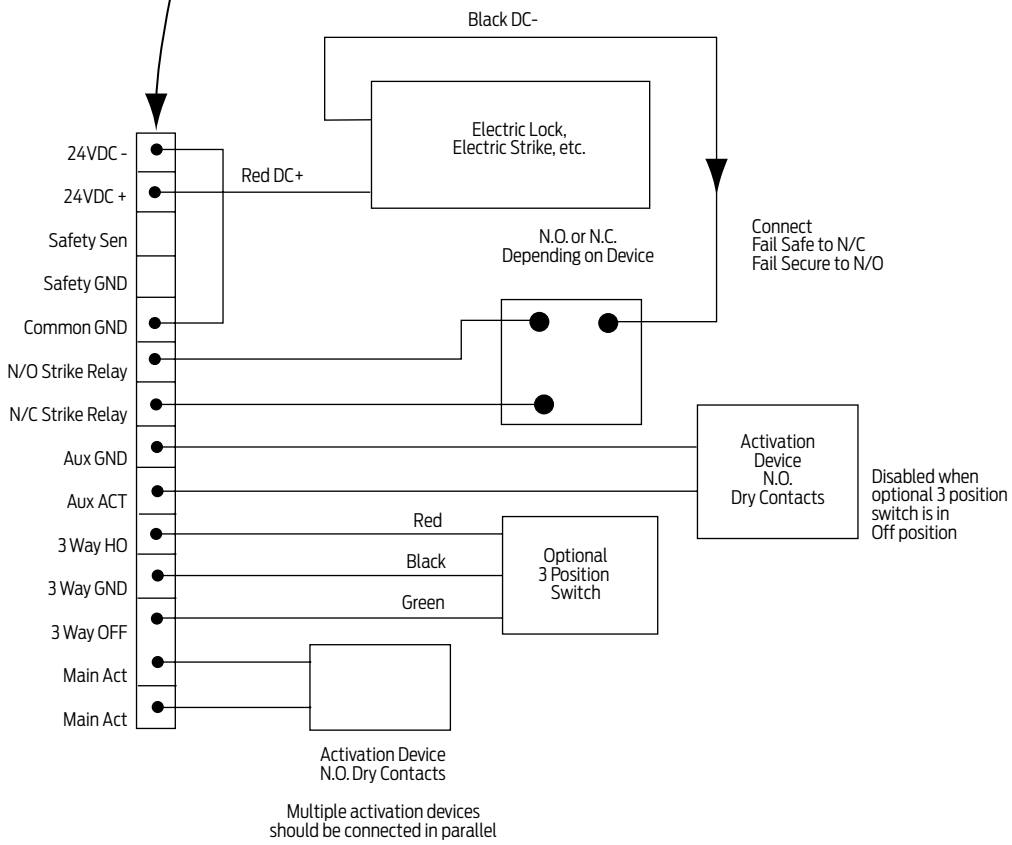


CONTROL BOX - 2800, 9500 SERIES

1. Control Box, 115VAC 60Hz, 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

STANDARD CONTROL BOX - 9100 SERIES





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.

Benchmark Unique Features

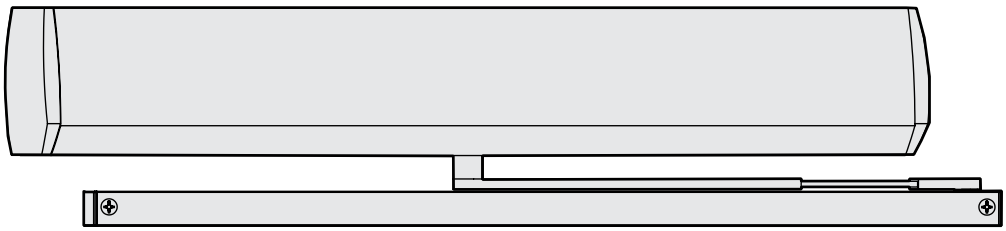
On-Board Power Supply
Provides 24V DC output to power card readers, manual actuators and other peripherals.

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

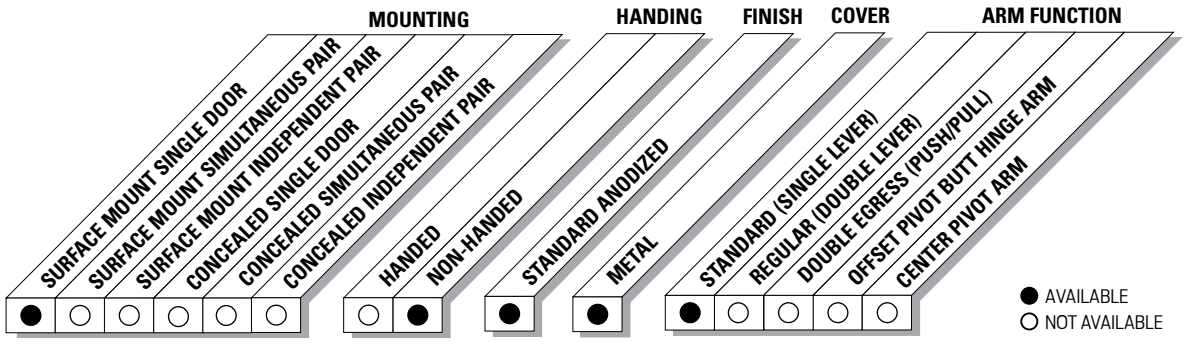


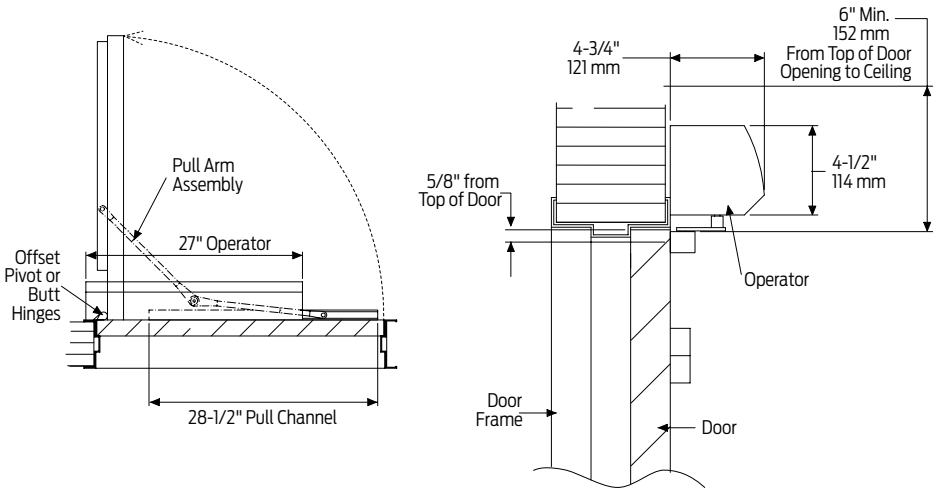
The 9130 BENCHMARK by LCN is an electrically powered low-energy operator. It provides easy access for people with disabilities, or the elderly. Designed primarily for automatic opening applications that occasionally require manual opening. The BENCHMARK is a cost-effective solution for retrofitting an 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

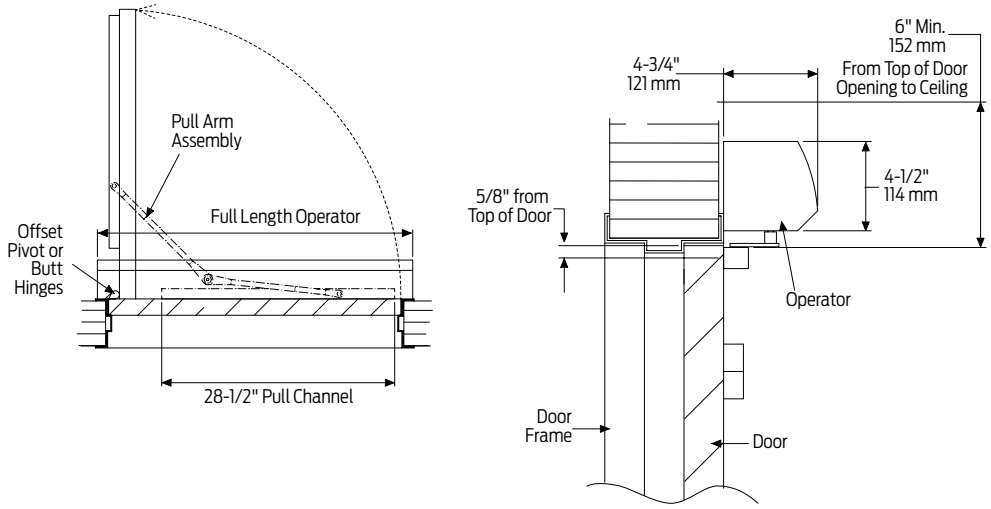
Cover	■ Metal 27″, standard ■ Metal 36″, optional
Fasteners	Wood and machine screws
Mounting	Single interior door, surface mount, offset pivot / butt hinge (Pull Side)
Arms	Standard arm and track
Finishes/Colors/ Powder Coat	■ Anodized aluminum, standard ■ Dark bronze, optional

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





Offset/butt hinge, center pivot, pull, standard cover



Offset/butt hinge, center pivot, pull, full cover

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

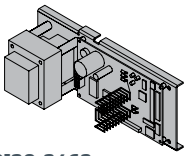
- Driving mechanism for operator (switch included)
- For 27″ unit



9130-3454
Motor Gearbox Assembly (W/O Switch)

- Driving mechanism for operator (switch not included)
- For full length 36″ unit

Control Box



9130-3462
Control Box (120v)

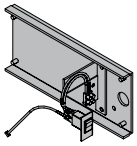
- Electronic controlling device with power supply output and power boost feature for Benchmark

Brackets



9130-3018
Mounting Bracket

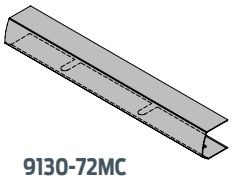
- Standard



9130-3351-2
Switch Bracket

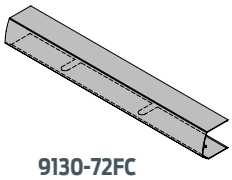
- 41″ cable
- Bracket used to locate switch at end of cover on full length unit

Covers



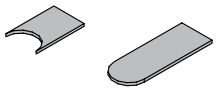
9130-72MC
Metal Cover

- Non-handed
- 27″
- Extruded aluminum
- Standard



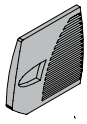
9130-72FC
Full Metal Cover

- 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

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 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

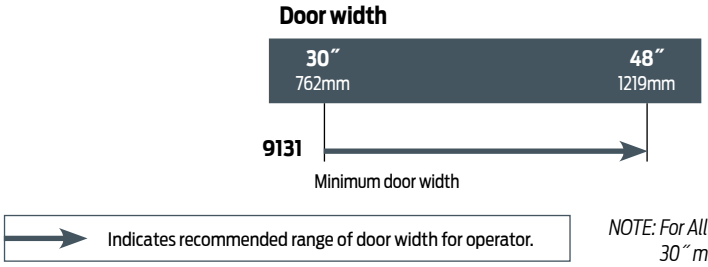
unless options listed below are selected

Operator options

Cover

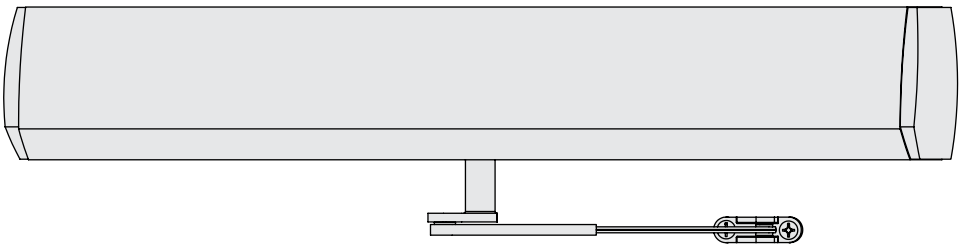
☐ 36″ Full Cover

Table of sizes



NOTE: For All Benchmark Series.
30″ minimum door width for 27″ pull operator.
36″ door width only for full length pull operator.

Notes

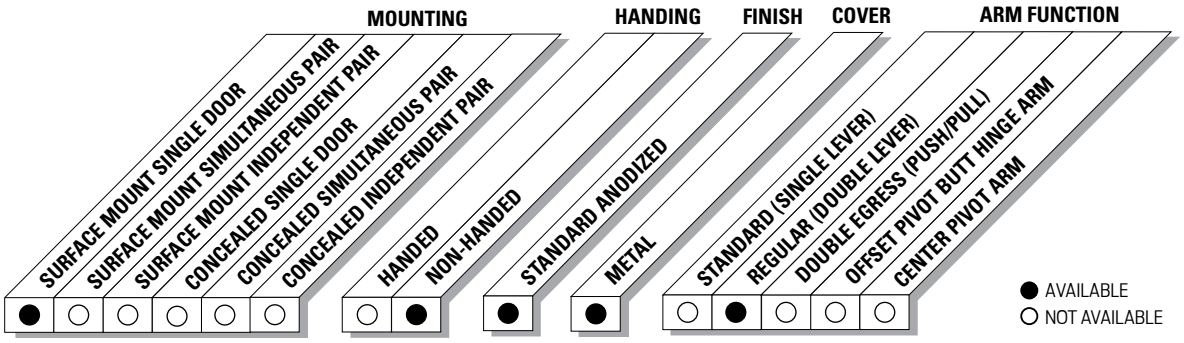


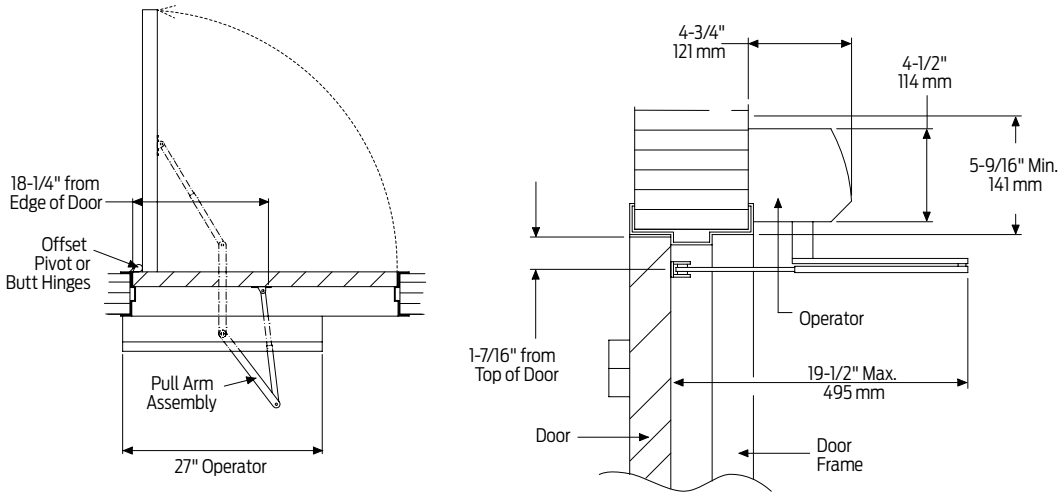
The 9140 BENCHMARK by LCN is an electrically powered low-energy operator. It provides easy access for people with disabilities, or the elderly. Designed primarily for automatic opening applications that occasionally require manual opening. The BENCHMARK is a cost-effective solution for retrofitting an activated or manual door.

Certifications	Grade 1 - ANSI A156.19, UL325/228, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act
Handing	Non-Handed
Door Width	■ 26″ - 48″ ■ 26″ minimum door width for 27″ ■ 36″ door width only for full length pull operator
Warranty	2 years

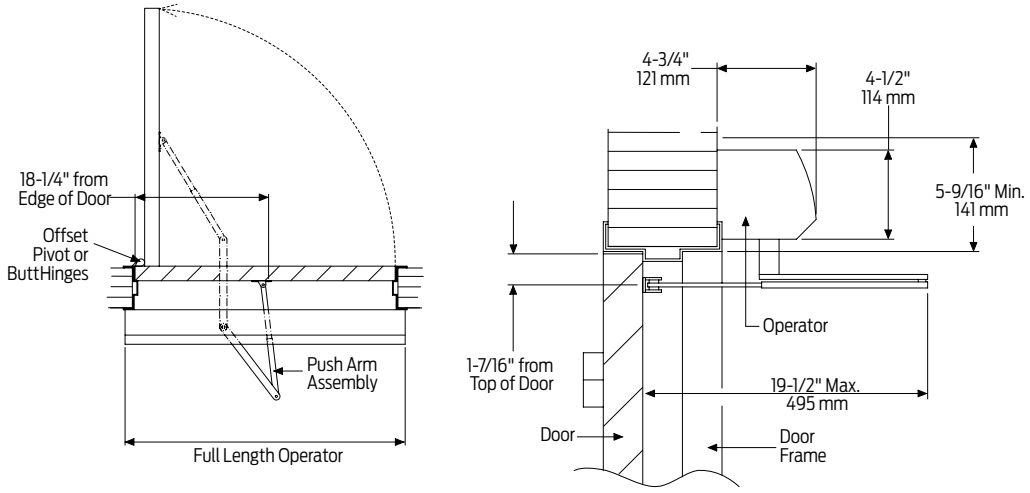
Fasteners	Wood and machine screws
Mounting	Single interior door, surface mount, offset pivot / butt hinge (Push Side)
Arms	Regular arm
Finishes/Colors/ Powder Coat	■ Anodized aluminum, standard ■ Dark bronze, optional

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





Offset/butt hinge, center pivot, push, standard cover



Offset/butt hinge, center pivot, push, full cover

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

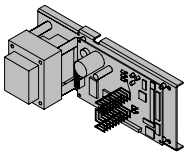
- Driving mechanism for operator (switch included)
- For 27″ unit



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)

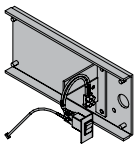
- Electronic controlling device with power supply output and power boost feature for Benchmark

Brackets



9140-3018
Mounting bracket

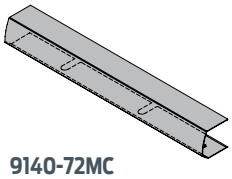
- Standard



9140-3351-1
Switch Bracket

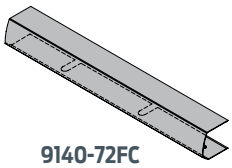
- 29″ cable
- Used with a 36" door
- Used to locate switch at end of cover on full length unit

Covers



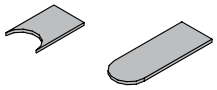
9140-72MC
Metal Cover

- Non-handed
- 27″
- Extruded aluminum cover
- Standard



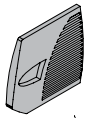
9140-72FC
Full Metal Cover

- 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

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 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

Operator options

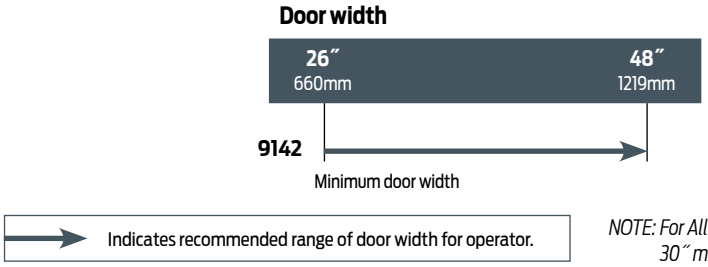
Cover

☐ 36″ Full Cover

Arm

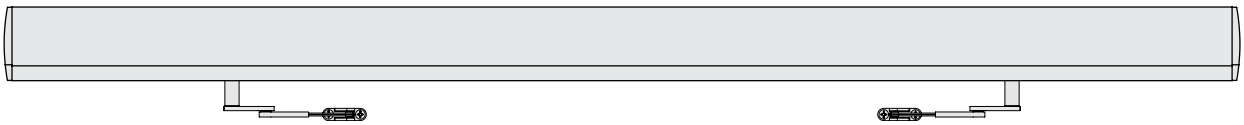
☐ Long Arm (3077L) (reveals 6″ to 9-3/4″)

Table of sizes



NOTE: For All Benchmark Series.
30″ minimum door width for 27″ pull operator.
36″ door width only for full length pull operator.

Notes

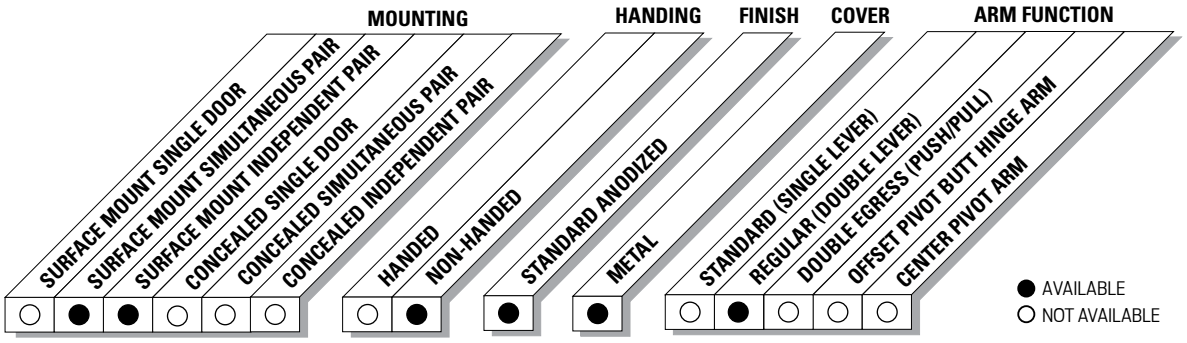


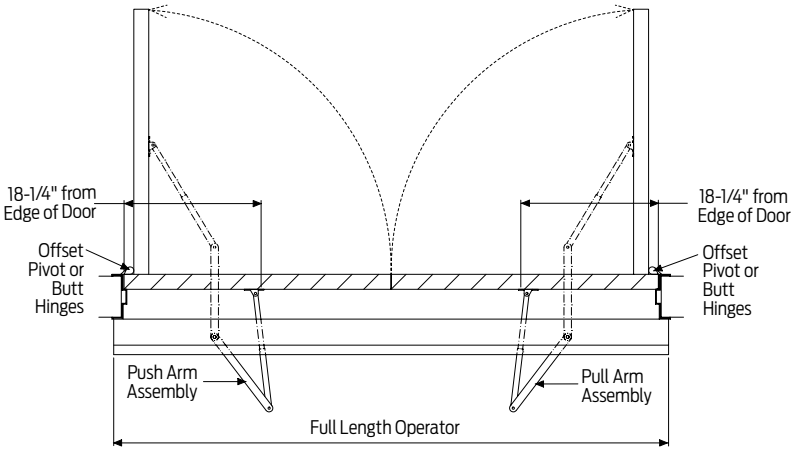
The 9150 BENCHMARK by LCN is an electrically powered low-energy operator. It provides easy access for people with disabilities, or the elderly. Designed primarily for automatic opening applications that occasionally require manual opening. The BENCHMARK is a cost-effective solution for retrofitting an activated or manual door.

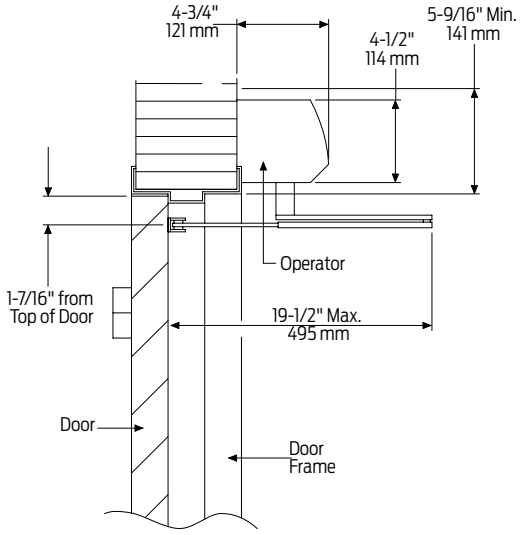
Certifications	Grade 1 - ANSI A156.19, UL325/228 ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act
Handing	Non-Handed
Templating	Peel-n-Stick templates - 2-3/8″ x 6-3/4″ Mounting Hole Pattern
Door Width	■ Minimum door width 52″ - 96″ ■ 72″ door width only for full length double operator
Warranty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

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







Offset pivot/butt hinge, center pivot, push

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

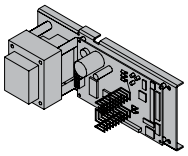
Motor Gearbox



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

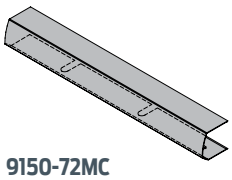
Brackets



9150-3018
Mounting Bracket

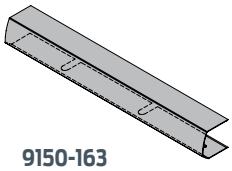
- Standard

Covers



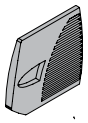
9150-72MC
Metal Cover

- 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 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

Operator options

Arm

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

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.

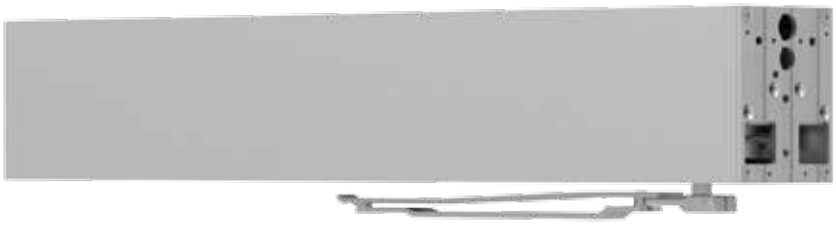
Safety Slow/Stops Function
Once the door starts opening, any person or object entering the swing area will cause the door to go into a safety slow speed. This function can be set to allow for a short stop once a person or object is sensed.

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.

Notes

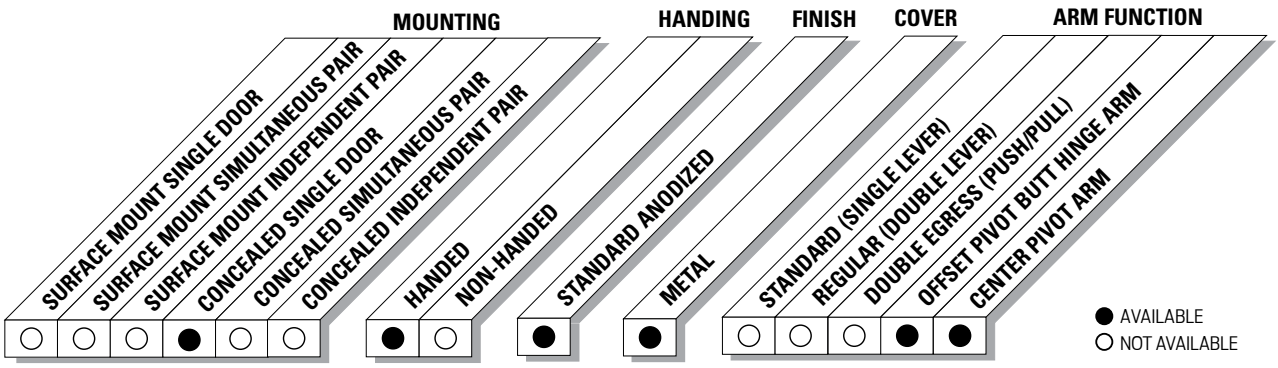


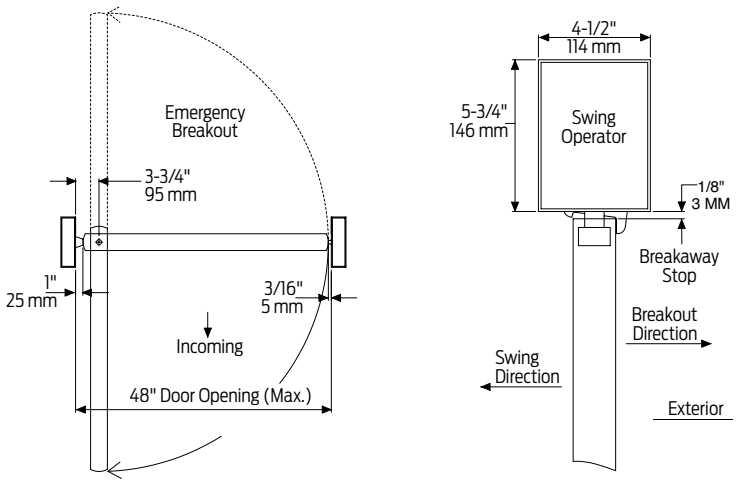
The 2810 SENIOR SWING by LCN is an ADA door operator that is a two-in-one swing door operator. SENIOR SWING operator when activated, opens doors automatically for wheelchair access, yet allows for manual operation for regular pedestrian traffic.

Certifications	Grade 1 - ANSI A156.19, UL325, UL1998, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act
Handing	Handed
Door Width	Minimum door width 33˝ - 48˝ 49" with finger guard. *Note: Single door width per leaf 33" minimum, 48" maximum*
Warranty	2 years

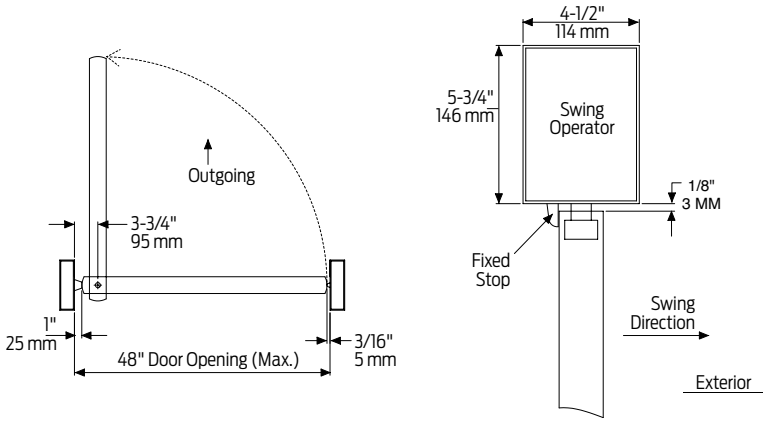
Fasteners	Wood and machine screws
Mounting	Single door, overhead concealed, center pivot, offset pivot, butt hinge
Arms	Center Pivot Arm or Offset Pivot Arm
Finishes/Colors/ Powder Coat	■ Anodized Aluminum ■ Anodized Dark Bronze

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





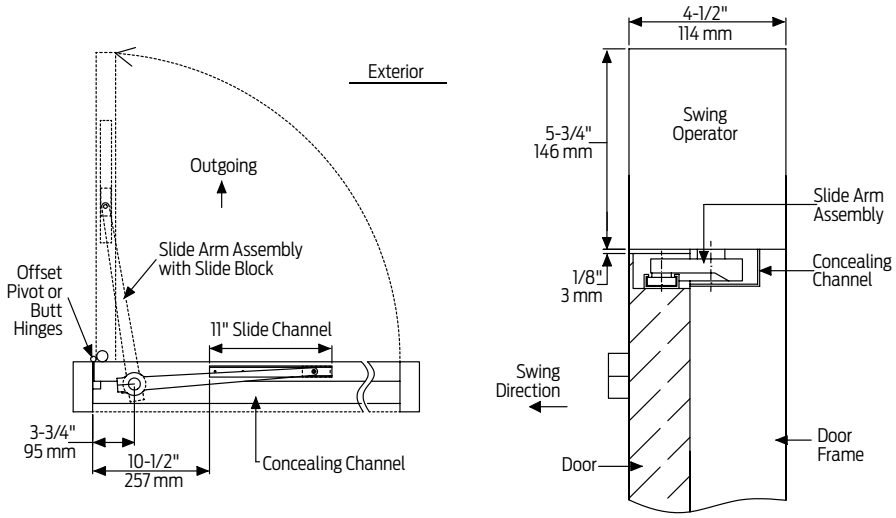
Center pivot, emergency breakaway, pull
Shown w/ 3-3/4˝ pivot and finger guard



Center pivot, fixed stop, push
Shown w/ 3-3/4˝ pivot and finger guard

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



Offset pivot or butt hinge, slide arm, push
Shown w/ 3-3/4˝ pivot

Head Frame	Minimum 33˝ (L) x 5-3/4˝ (H) x 4-1/2˝ (W) (838 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˝
- 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

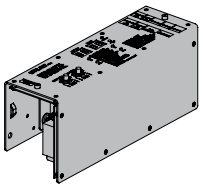
- Motor gearbox mounting bracket for 2-3/4″ center pivot installations
- Front bracket



2810-3018
Rear Mounting Bracket

- Motor gearbox mounting bracket
- Rear bracket

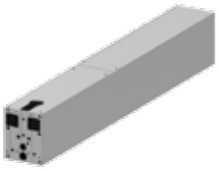
Control Box



2810-3462
Control Box

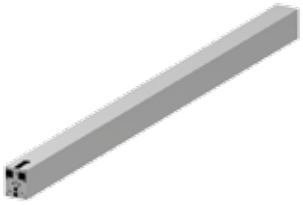
- Senior swing
- Electronic controlling device for Senior Swing

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



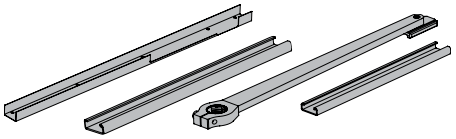
2810-3077CP
Center Pivot Arm

- Center pivot installations only
- Used with overhead concealed operators and center pivoted doors



2810-3077OP
Offset Pivot Arm

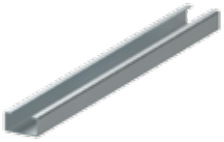
- Offset pivot or butt hung installations only
- Used with overhead concealed operators



2810-3077 OPCM
Offset Pivot Arm Assembly

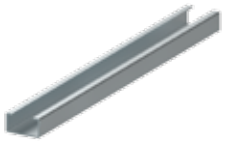
- Offset arm with track and concealing channel (includes 3072 concealing channel, 168 slide channel and 3077OP offset pivot arm)

Channels



2810-3072
Concealing Channel

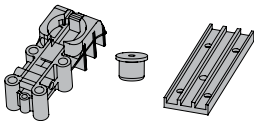
- Used to conceal arm in overhead concealed applications
- For offset pivot installations only
- If ordering separately specify length and hand



2810-168
Slide channel

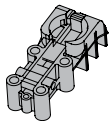
- Offset pivot or butt hinge installations only
- Mounts in top rail of door
- Allows arm to slide

Pivots



2810-3107
Bottom Pivot Assembly

- Includes pivot body, pivot post and bottom pivot plate
- For overhead concealed, center pivoted installations
- Includes; 2810-107, 2810-110 and 2810-117



2810-107
Bottom Pivot Body

- For center pivoted installations



2810-110
Pivot Post

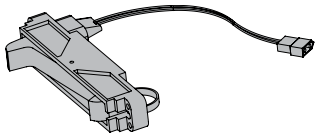
- Connects pivot body to bottom pivot plate for center pivoted installations



2810-117
Bottom Pivot Plate

- Applied to floor for center pivoted installations

Installation Accessories



2810-384B
Door Stop Breakaway

- Allows in-swinging door to swing out in case of emergency
- Disables operator in breakaway mode.
- For center pivoted installations only



2810-384F
Door Stop Fixed

- Prevents out-swinging door from swinging in
- For center pivoted installations only



2810-12
Filler Plate Blank

- Completes length of header box



2810-11A
Spindle Plate

- Hides bottom of motor gearbox
- Completes header box
- Cutout allows for motor gearbox shaft
- For 2-3/4″ center pivot installations



2810-11B
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

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

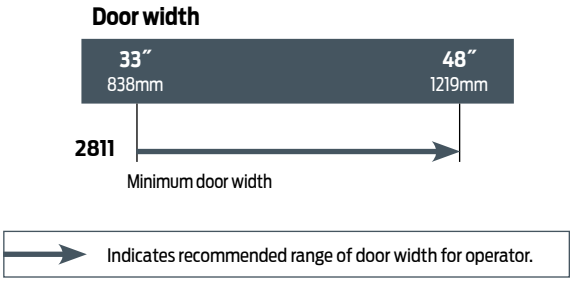
Operator will be shipped with:
- Motor gearbox,
- Control box,
- Header (at specified length, 36″ standard),
- Wood and machine screw pack

unless options listed below are selected.

Operator options

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

Table of sizes



NOTE: For all Senior Swing Series
Single Door - Width per leaf 33″ minimum, 48″ maximum

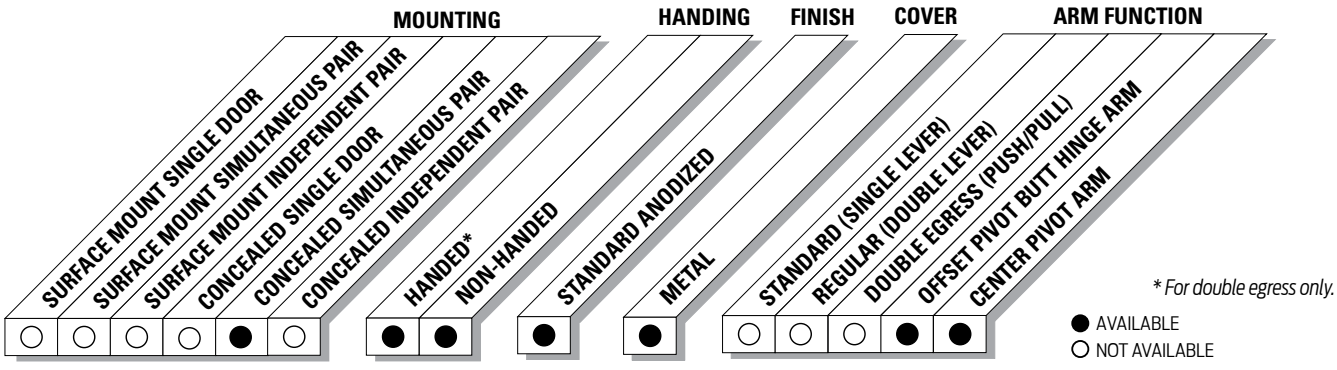


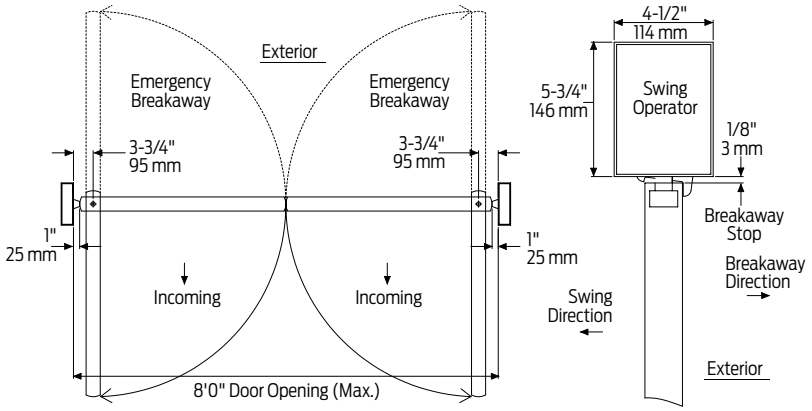
The 2850 SENIOR SWING by LCN is an ADA door operator that is a two-in-one swing door operator. SENIOR SWING operator when activated, opens doors automatically for wheelchair access, yet allows for manual operation for regular pedestrian traffic.

Certifications	Grade 1 - ANSI A156.19, UL325, UL1998, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act
Fluid	All Weather Fluid
Handing	Handed
Door Width	■ Combined width min 52″ - 96″ ■ Simultaneous pair - width per leaf 26″ minimum to 48″ maximum
Warranty	2 years

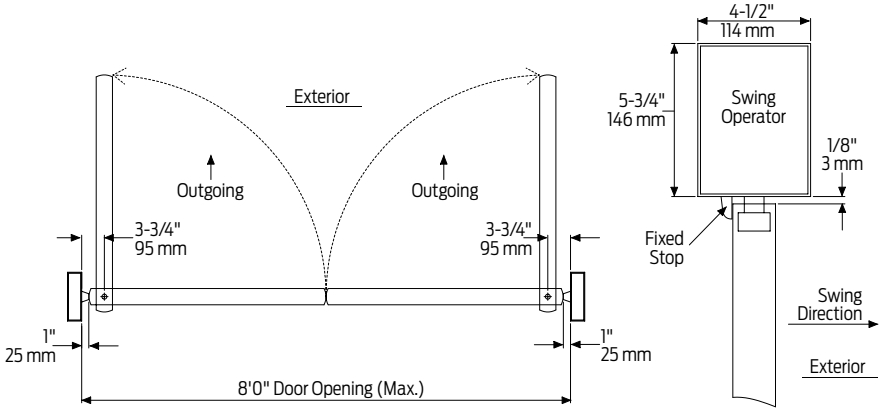
Fasteners	Wood and machine screw pack
Mounting	Double door, overhead concealed, center pivot, offset pivot, butt hinge
Arms	Offset Pivot Arm or Center Pivot Arm
Finishes/Colors/ Powder Coat	■ Anodized Aluminum ■ Anodized Dark Bronze

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





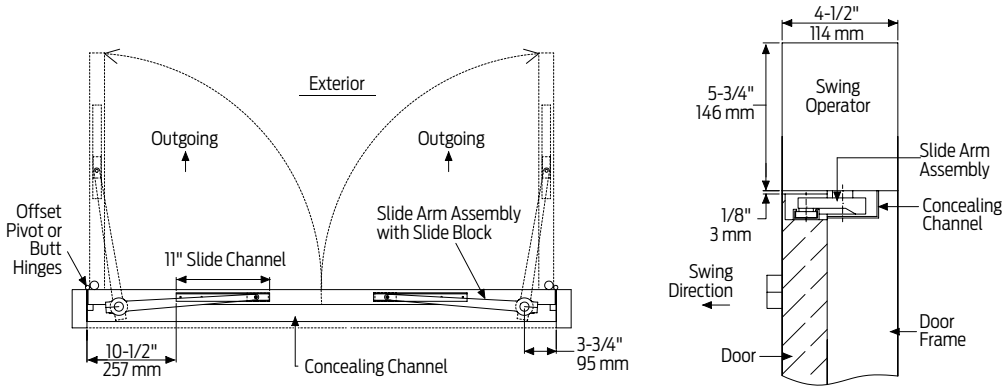
Center pivot, emergency breakaway, pull
Shown w/ 3-3/4˝ pivot



Center pivot, fixed stop, push
Shown w/ 3-3/4˝ pivot

Head Frame	Minimum 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



Offset pivot or butt hinge, slide arm, push
Shown w/ 3-3/4˝ pivot

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

Motor Gearbox



2850-3454
Motor Gearbox

- Senior swing
- Driving mechanism for operator
- Provides maximum 15 lbs opening force
- Handed

Mount Brackets



2850-375
Mounting Bracket

- Motor gearbox mounting bracket for 3-3/4″ offset pivot, butt hinge or center pivot with finger guard installations
- Front bracket



2850-275
Mounting Bracket

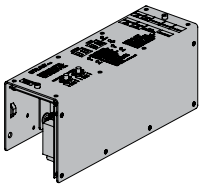
- Motor gearbox mounting bracket for 2-3/4″ center pivot installations
- Front bracket



2850-3018
Rear Mounting Bracket

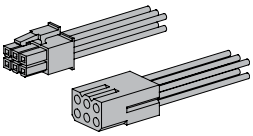
- Motor gearbox mounting bracket
- Rear bracket

Control Box



2850-3462
Control box

- Senior swing
- Electronic controlling device for Senior Swing



2850-982
Companion Cable

- Cable that allows one control box to run two motor gearboxes
- For use with Senior Swing

Header



2850-3572HL
Header

- Mounting header
- Pair door, two operators
- Specify length 52″ to 98″ maximum
- Standard

End Cap



2850-334
Header End Caps

- End cap with openings for wiring

Arms



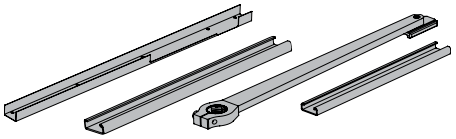
2850-3077CP
Center pivot arm

- Center pivot installations only
- Used with overhead concealed operators and center pivoted doors



2850-30770P
Offset pivot arm

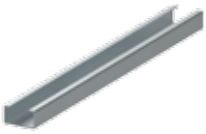
- Offset pivot or butt hung installations only
- Handed
- Used with overhead concealed operators



2850-30770PCM
Offset Pivot Arm Assembly

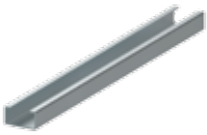
- Offset arm with track and concealing channel
- Includes 3072 Concealing Channel, 168 Slide Channel and 30770P offset pivot arm

Channels



2850-3072
Concealing Channel

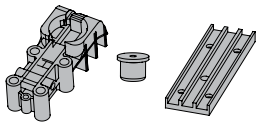
- Used to conceal arm in overhead concealed applications
- For offset pivot installations only
- If ordering separately specify length and hand



2850-168
Slide Channel

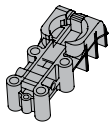
- Offset pivot or butt hinge installations only
- Mounts in top rail of door
- Allows arm to slide

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



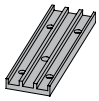
2810-107
Bottom Pivot Body

- Pivot body for center pivoted installations



2850-110
Pivot Post

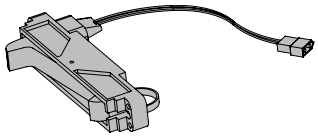
- Connects pivot body to bottom pivot plate for center pivoted installations



2850-117
Bottom Pivot Plate

- Applied to floor for center pivoted installations

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



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



2850-11B
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

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

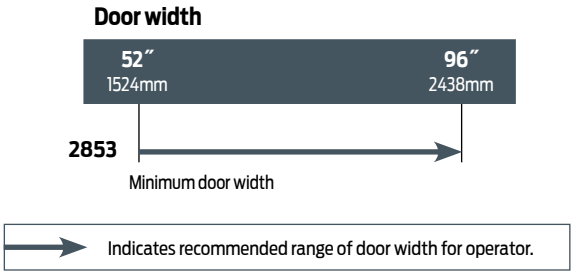
Operator will be shipped with:
- Standard motor gearbox (1 LH & 1 RH)
- Standard control box
- Companion cable
- Header (at specified length - 72″ standard)
- 2-3/4″ pivot point
- Wood and machine screw pack

unless options listed below are selected.

Operator options

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

Table of sizes



NOTE: For all Senior Swing Series
Simultaneous Pair – Width per leaf 26″ minimum to 48″ maximum.

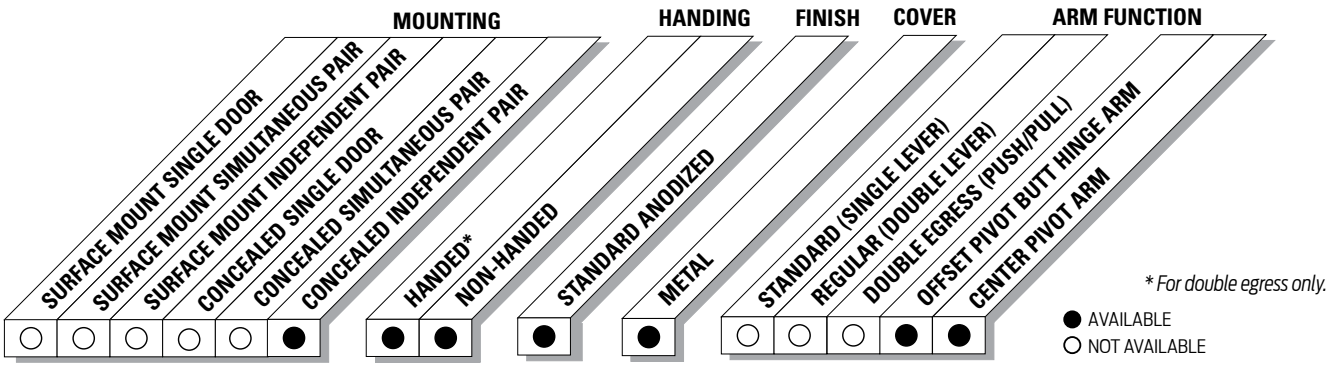


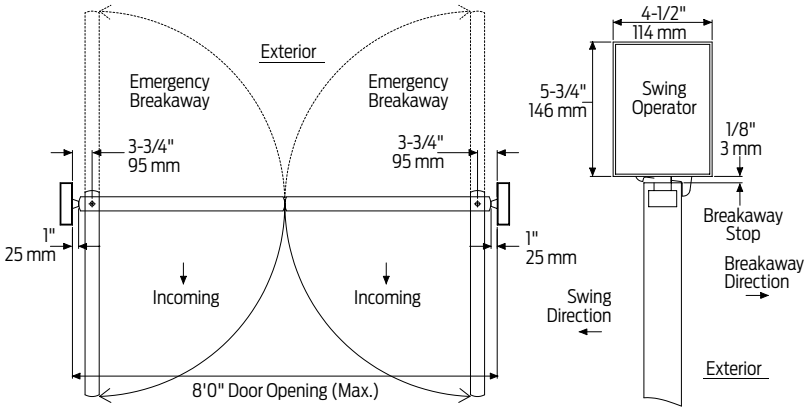
The 2860 SENIOR SWING by LCN is an ADA door operator that is a two-in-one swing door operator. SENIOR SWING operator when activated, opens doors automatically for wheelchair access, yet allows for manual operation for regular pedestrian traffic.

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 with 52″ - 96″ ■ Simultaneous pair - width per leaf 26″ minimum to 48″ maximum
Warranty	2 years

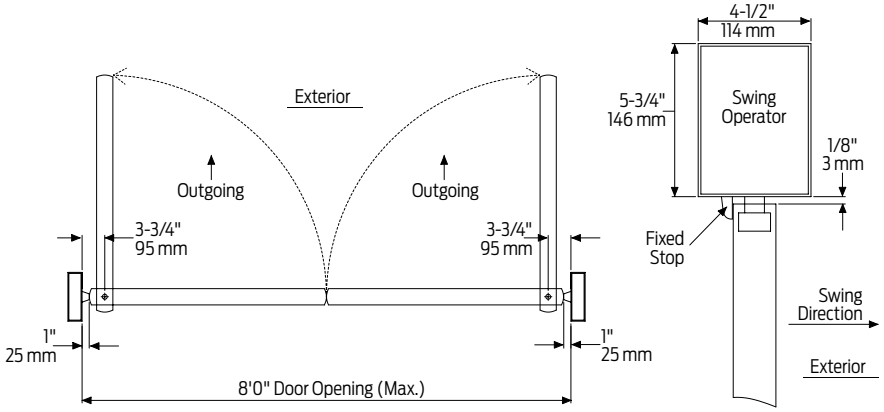
Fasteners	Wood and machine screw packs
Mounting	Independent pair, overhead concealed, center pivot, offset pivot, butt hinge
Arms	Offset Pivot Arm or Center Pivot Arm
Finishes/Colors/ Powder Coat	■ Anodized Aluminum ■ Anodized Dark Bronze

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





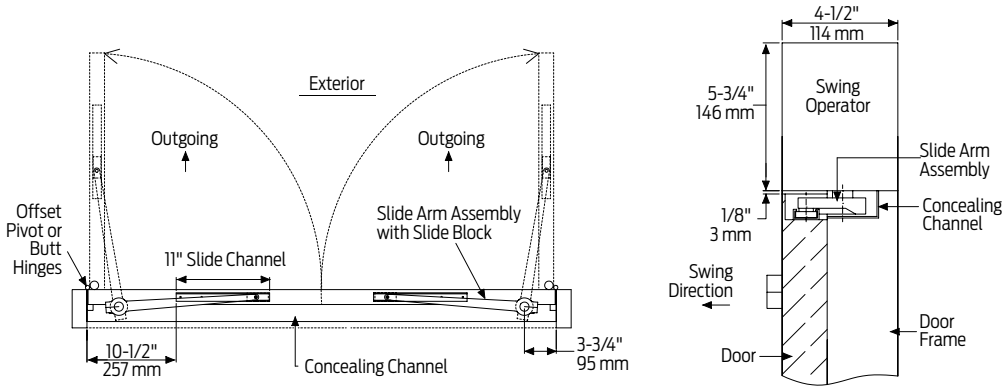
Center pivot, emergency breakaway, pull
Shown w/ 3-3/4˝ pivot



Center pivot, fixed stop, push
Shown w/ 3-3/4˝ pivot

Head Frame	Minimum 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



Offset pivot/butt hinge, push

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

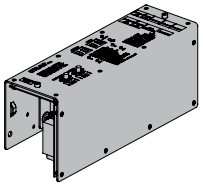
- Motor gearbox mounting bracket for 2-3/4″ center pivot installations
- Front bracket



2860-3018
Rear Mounting Bracket

- Motor gearbox mounting bracket
- Rear bracket

Control Box



2860-3462
Control box

- Electronic controlling device for Senior Swing

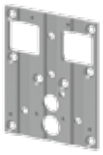
Header



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



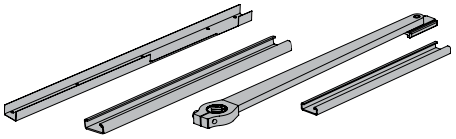
2860-3077CP
Center Pivot Arm

- Center pivot installations only
- Used with overhead concealed operators and center pivoted doors



2860-30770P
Offset Pivot Arm

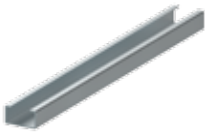
- Offset pivot or butt hung installations only
- Used with overhead concealed operators



2860-30770PCM
Offset Pivot Arm Assembly

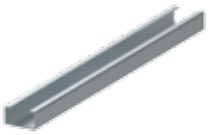
- Offset arm with track and concealing channel
- Includes 3072 Concealing Channel, 168 Slide Channel and 30770P offset pivot arm

Channels



2860-3072
Concealing Channel

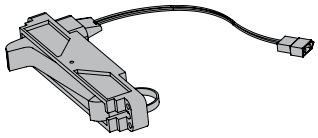
- Used to conceal arm in overhead concealed applications
- For offset pivot installations only
- If ordering separately specify length and hand



2860-168
Slide Channel

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

Installation Accessories



2860-384B
Door Stop Breakaway

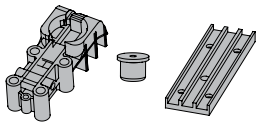
- Allows in-swinging door to swing out in case of emergency
- For center pivoted installations only



2860-384F
Door Stop Fixed

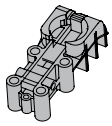
- Prevents out-swinging door from swinging in
- For center pivoted installations only

Pivots



2860-3107
Bottom Pivot Assembly

- Includes pivot body, pivot post and bottom pivot plate
- For overhead concealed, center pivoted installations
- Includes: 2860-107, 2860-110 and 2860-117



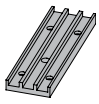
2860-107
Bottom Pivot Body

- Pivot body for center pivoted installations



2860-110
Pivot Post

- Connects pivot body to bottom pivot plate for center pivoted installations



2860-117
Bottom Pivot Plate

- Applied to floor for center pivoted installations



2860-12
Filler Plate Blank

- Completes length of header box



2860-11A
Spindle Plate

- Hides bottom of motor gearbox
- Completes header box
- Cutout allows for motor gearbox shaft
- For 2-3/4″ center pivot installations



2860-11B
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

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

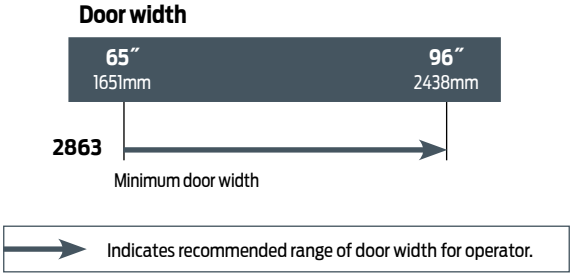
Operator will be shipped with:
- Standard motor gearbox (1 LH & 1 RH)
- Standard control box (2 ea)
- Header (at specified length - 72″ standard)
- 2-3/4″ pivot point
- Wood and machine screw pack

unless options listed below are selected.

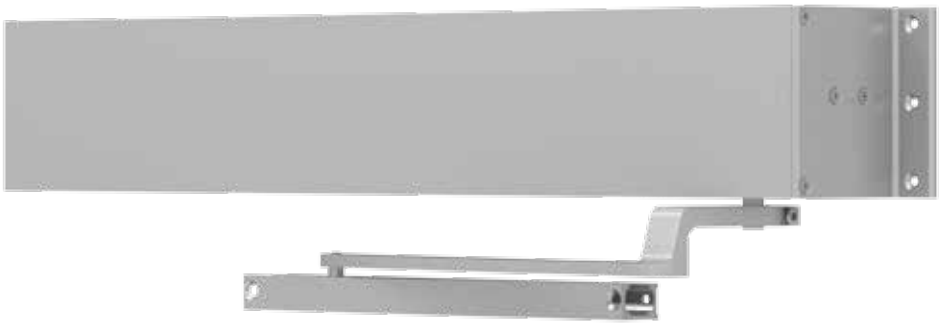
Operator options

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

Table of sizes



NOTE: For all Senior Swing Series
Independent Pair – Width per leaf 32-1/2″ minimum to 48″ maximum

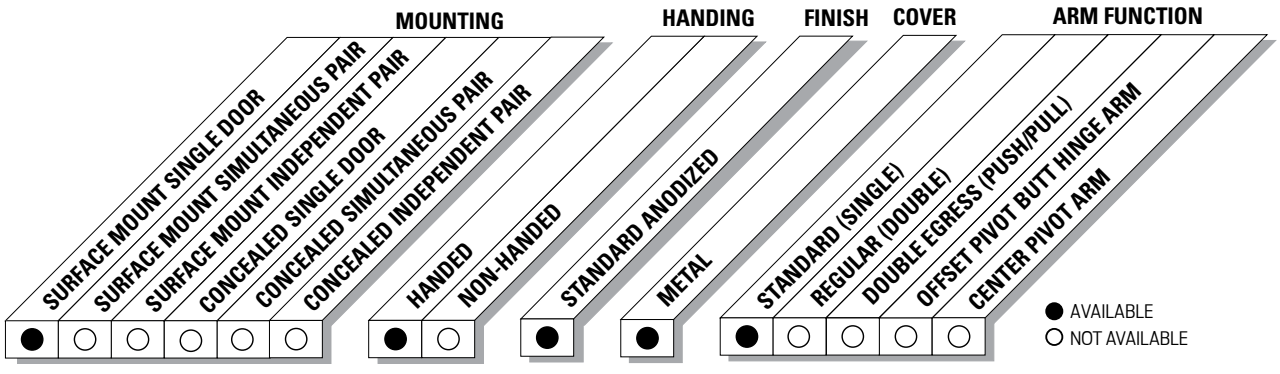


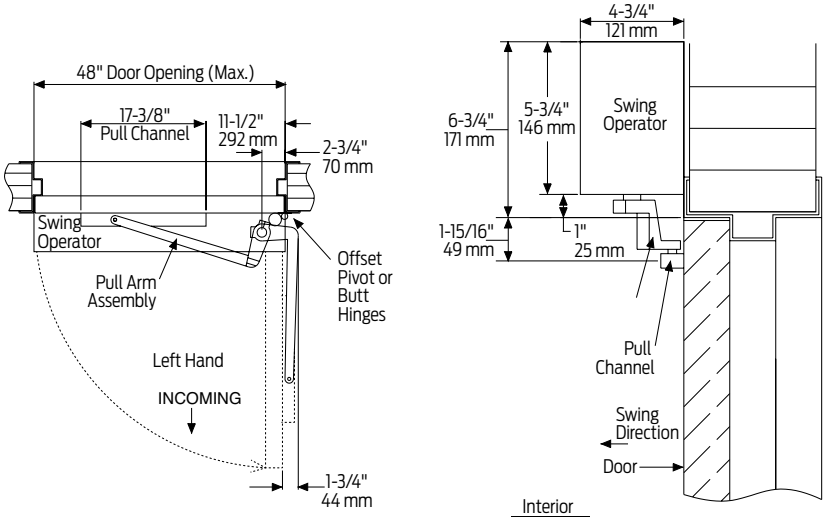
The 9530 SENIOR SWING by LCN is an ADA door operator that is a two-in-one swing door operator. SENIOR SWING operators when activated, opens doors automatically for wheelchair access, yet allows for manual operation for regular pedestrian traffic.

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

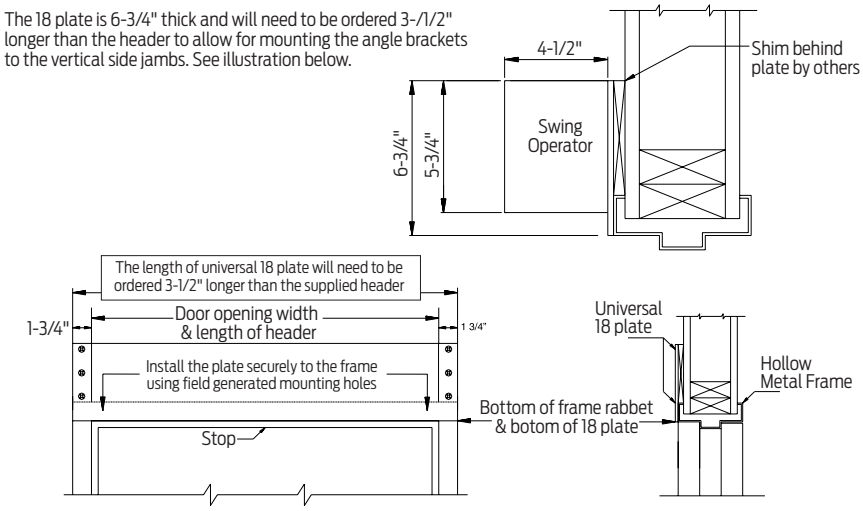
Special Templates | Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.





Offset pivot/butt hinge, center pivot, pull

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



Hollow metal frame

Suggested Installation.

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

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

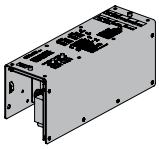
- Motor gearbox mounting bracket
- Rear bracket



9530-334-1
Angled Bracket

- Mounting bracket for surface applications (includes 2 mounting brackets)

Control Box



9530-3462
Control Box

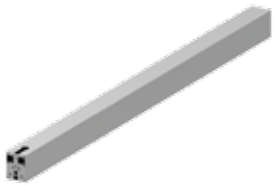
- Electronic controlling device for Senior Swing

Headers



9530-3572HL
Header

- Standard
- Single door, single operator
- Specify length 33″ to 48″ maximum



9530-3572DD
Header

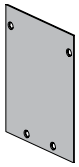
- Standard
- Double door, single operator
- Specify length 49″ to 98″ maximum

End Caps



9530-334
Header End Caps

- With openings for wiring



9530-334-2
End Dress Plate

- Metal finish end cap

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

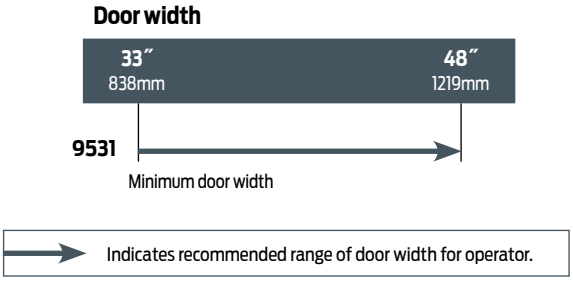
Operator will be shipped with:
- Standard motor gearbox
- Standard control box
- Header (at specified length, 36″ standard)
- Standard arm (3077T)
- 2-3/4″ pivot point
- Standard track w/track roller
- Machine screw pack

unless options listed below are selected

Operator options

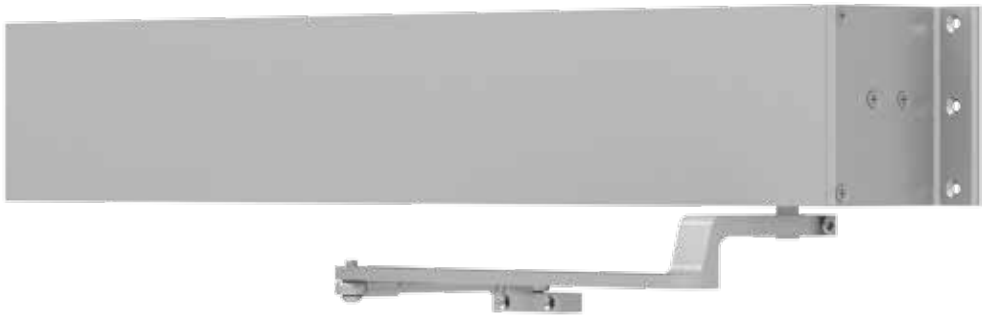
Mounting plate
☐ Plate, ___ (Specify Length 33″ to 101-1/2″)

Table of sizes



NOTE: For all Senior Swing Series.
Single Door - Width per leaf 33″ minimum, 48″ maximum.

Notes

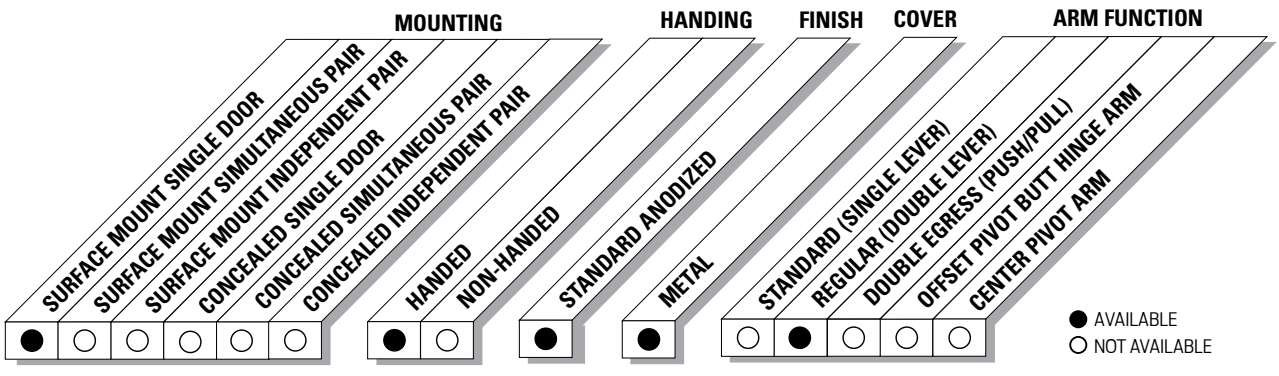


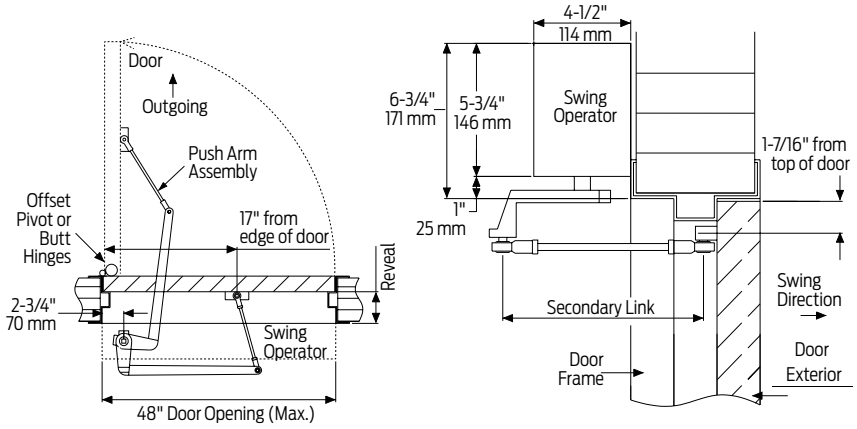
The 9540 SENIOR SWING by LCN is an ADA door operator that is a two-in-one swing door operator. SENIOR SWING operators when activated, opens doors automatically for wheelchair access, yet allows for manual operation for regular pedestrian traffic.

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 door width 33″ - 48″ ■ Single door - width per leaf 33″ minimum, 48″ maximum
Warranty	2 years

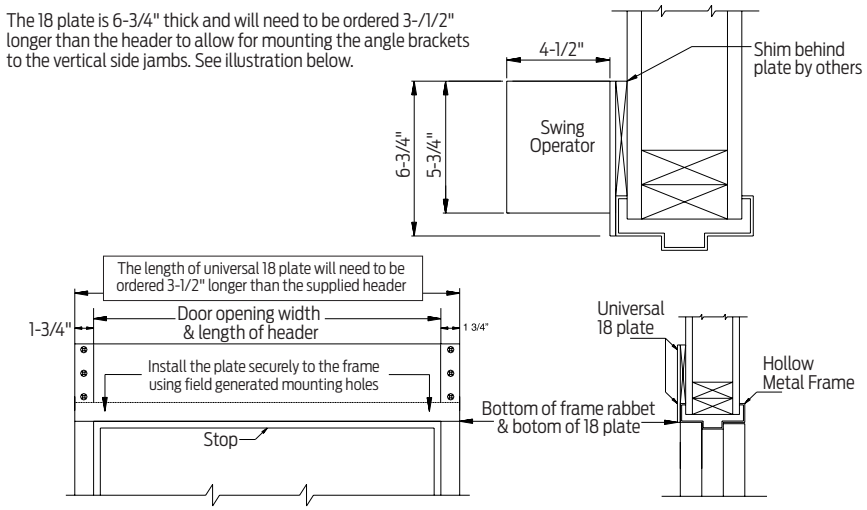
Fasteners	Machine screw pack
Mounting	Single door, surface mount, offset pivot, butt hinge (Push Side)
Arms	Regular Arm (3077)
Finishes/Colors/ Powder Coat	■ Anodized Aluminum ■ Anodized Dark Bronze

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





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



Hollow metal frame
Suggested Installation.

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

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



9540-3018
Rear Mounting Bracket

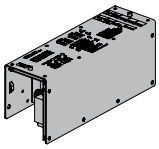
- Motor gearbox mounting bracket
- Rear bracket



9540-334-1
Angled Bracket

- Mounting bracket for surface applications (includes 2 mounting brackets)

Control Box



9540-3462
Control Box

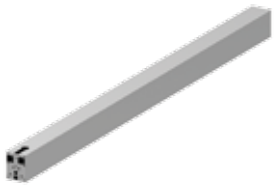
- Electronic controlling device for Senior Swing

Headers



9540-3572HL
Header

- Single door, single operator
- Specify length 33″ to 48″ maximum
- Standard



9540-3572DD
Header

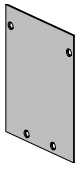
- Double door, single operator
- Specify length 49″ to 98″ maximum
- Standard

End Caps



9540-334
Header End Caps

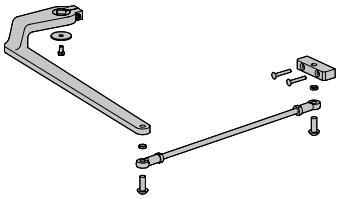
- With openings for wiring



9540-334-2
End Dress Plate

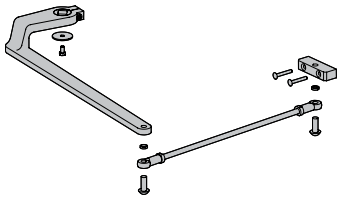
- Metal finish end cap

Arms



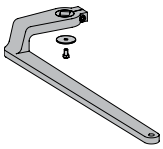
9540-3077
Regular Arm Assembly

- Handed
- Includes 77 main arm assembly and 79 linkage assembly



9540-3077L
Regular Long Arm Assembly

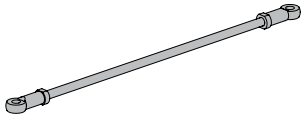
- Handed
- Includes 77 main arm assembly and 79LR linkage assembly



9540-77
Main Arm

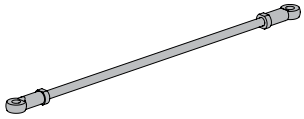
- Handed
- Attaches to motor gearbox

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.

How-to-order 9540 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 will be shipped with:
- Standard motor gearbox
- Standard control box
- Header (at specified length, 36″ standard)
- Regular arm (3077)
- 2-3/4″ pivot point
- Machine screw pack

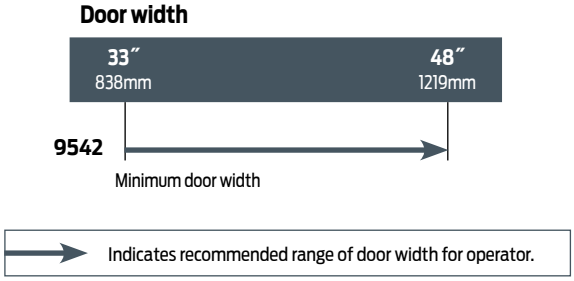
unless options listed below are selected.

Operator options

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

Arm
☐ Long Arm (3077L)

Table of sizes



NOTE: For all Senior Swing Series.
Single Door - Width per leaf 33″ minimum, 48″ maximum.

Notes

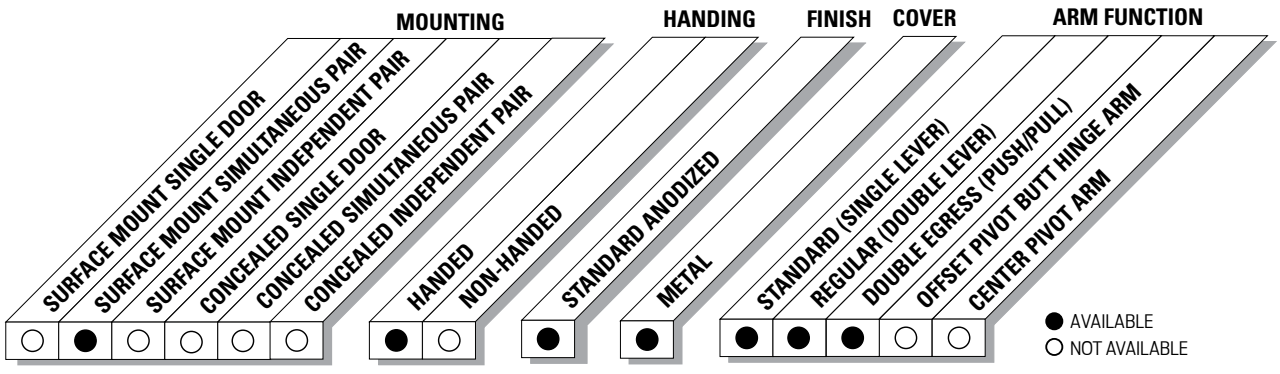


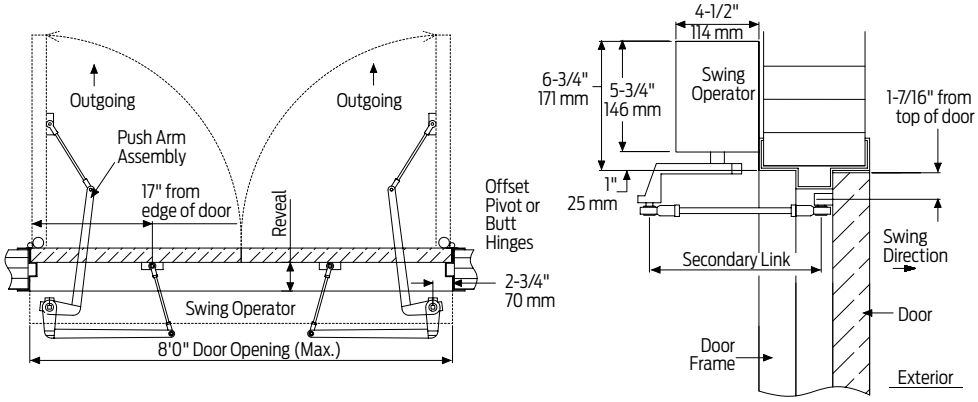
The 9550 SENIOR SWING by LCN is an ADA door operator that is a two-in-one swing door operator. SENIOR SWING operators when activated, opens doors automatically for wheelchair access, yet allows for manual operation for regular pedestrian traffic.

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

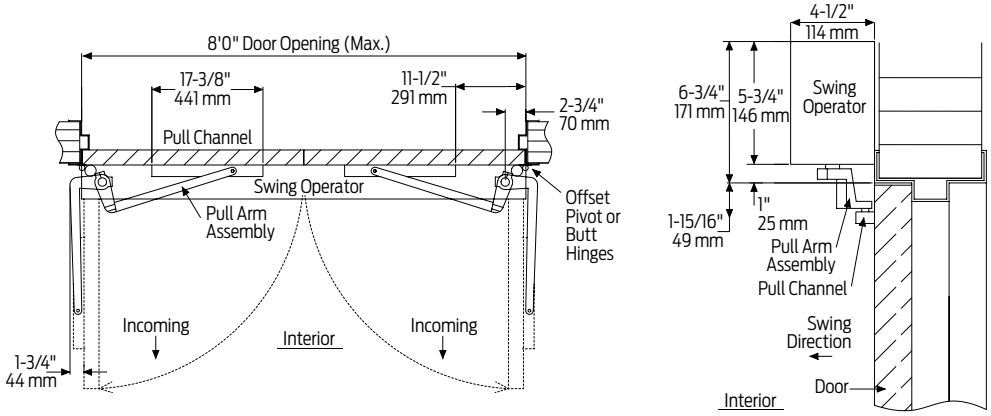
Special Templates | Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.





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

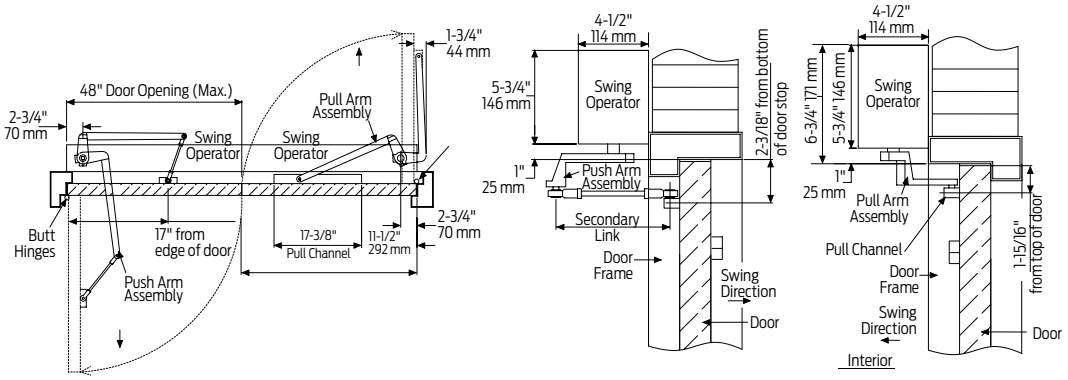
• Electromechanical unit with microprocessor control

• 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

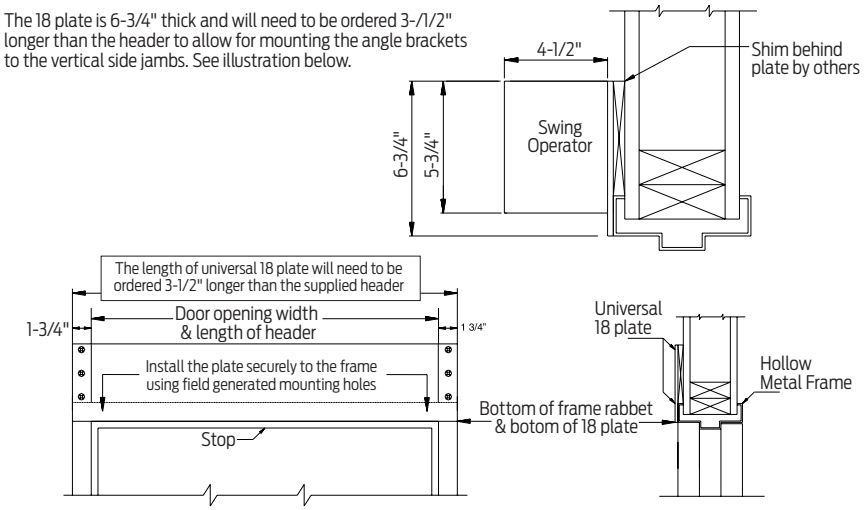
• Adjustable hold open period of 2 - 32 seconds in automatic or manual mode

• 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.



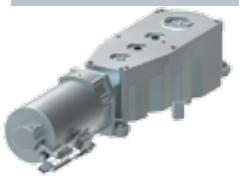
Hollow metal frame

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

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



9550-3018
Rear Mounting Bracket

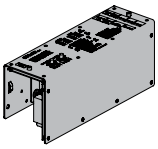
- Motor gearbox mounting bracket



9550-334-1
Angled Bracket

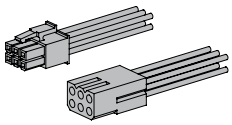
- Mounting bracket for surface applications (includes 2 mounting brackets)

Control Box



9550-3462
Control Box

- Electronic controlling device for Senior Swing



9550-982
Companion Cable

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

Header



9550-3572HL
Header

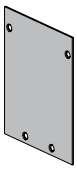
- Pair door, two operators
- Specify other length 52″ to 98″ (Push)
- Specify other length 60″ to 98″ (Pull; Double Egress)
- Standard

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

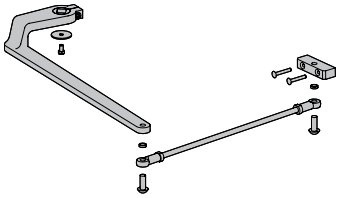
- Quiet low friction roller assembly

Arms



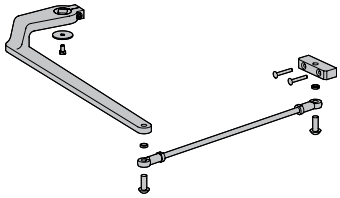
9550-3077Plcm
Standard Arm Assembly

- 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



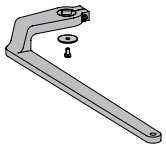
9550-3077L
Regular Long Arm Assembly

- Handed
- Includes 77 main arm assembly and 79LR linkage assembly



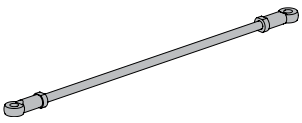
9550-3077T
Standard Arm

- Handed
- Track roller not included



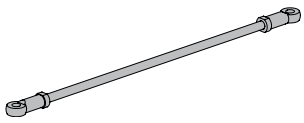
9550-77
Main Arm

- 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



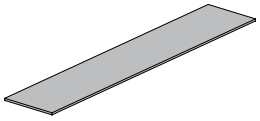
9550-11A
Spindle Plate

- 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

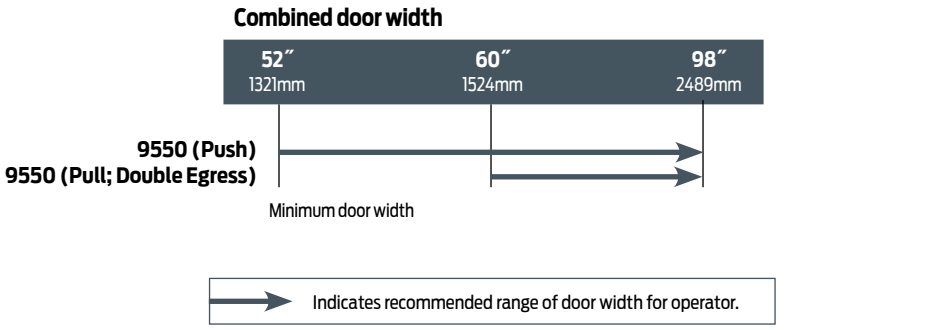
unless options listed below are selected

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



NOTE: For all Senior Swing Series.
Simultaneous Pair – Width per leaf 26" minimum (push) 30″ minimum (pull) to 48″ maximum.

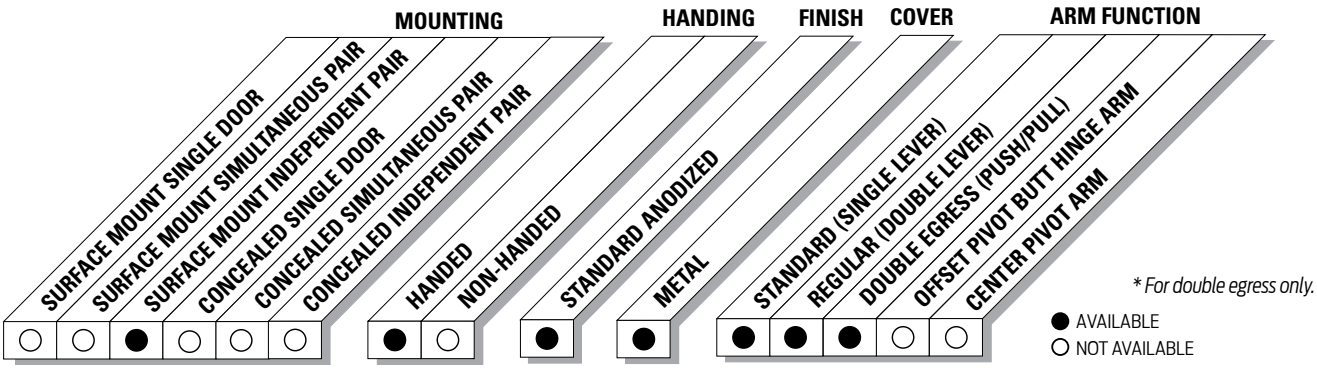


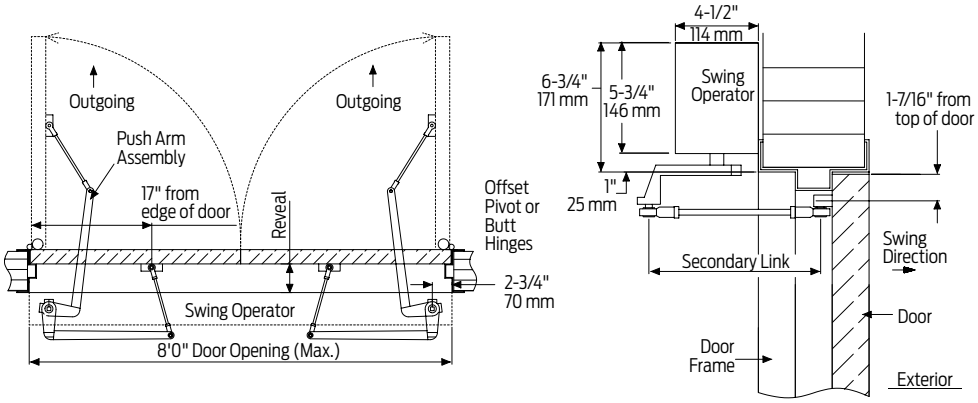
The 9560 SENIOR SWING by LCN is an ADA door operator that is a two-in-one swing door operator. SENIOR SWING operators when activated, opens doors automatically for wheelchair access, yet allows for manual operation for regular pedestrian traffic.

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

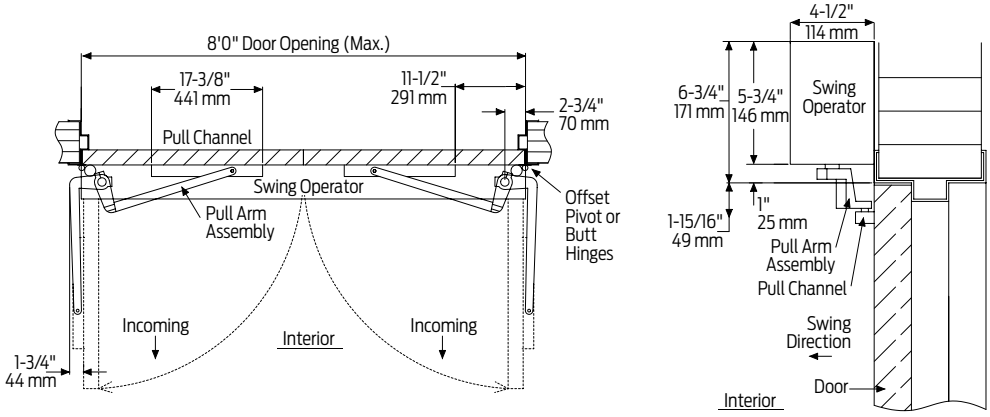
Special Templates | Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.





Offset pivot/butt hinge, center pivot, push

Consult factory for all balanced door installations.



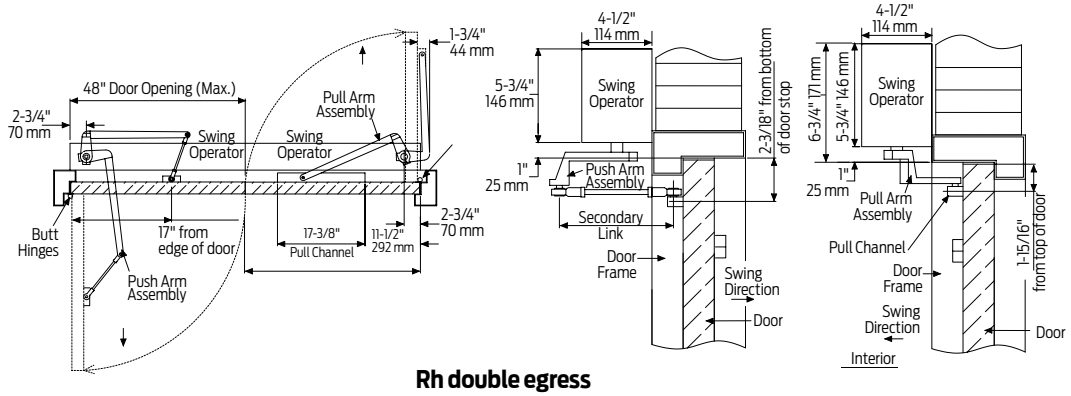
Offset pivot/butt hinge, center pivot, pull

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:

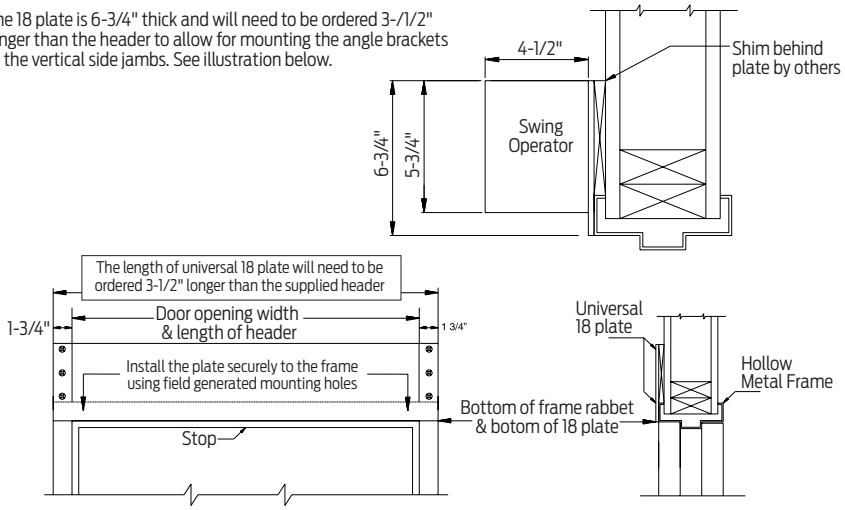
- *Push N' Go permits non-switch activation with a power boost providing additional latching force*
- *Electromechanical unit with microprocessor control*
- *Digital keypad for easy setup*
- *72" header length is standard. Specify 65" - 98" max*
- *Pull, push, or double egress applications available*
- *Adjustable hold open period of 2 - 32 seconds in automatic or manual mode*
- *Actuators available separately, see pages 115-131*



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.



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 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

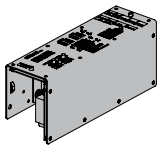
- Motor gearbox mounting bracket



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

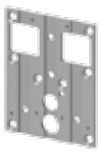
Header



9560-3572HL
Header

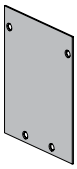
- Pair door, two operators
- Specify length 65″ to 98″ maximum
- Standard

End Caps



9560-334
Header End Caps

- With openings for wiring



9560-334-2
End Dress Plate

- Metal finish end cap

Tracks



9560-3038
Track

- Non-handed
- Standard



9560-73
Track End Cap

- Black plastic end caps



9560-3034
Roller

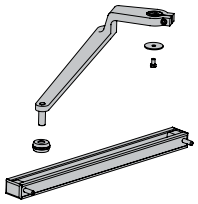
- Quiet low friction roller assembly

Arms



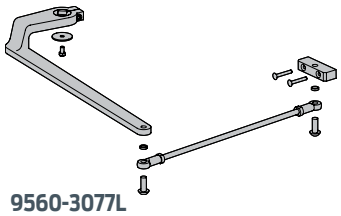
9560-3077T
Standard Arm

- Handed
- Track roller not included



9560-3077
Regular Arm Assembly

- Handed
- Includes 77 main arm assembly and 79 linkage assembly



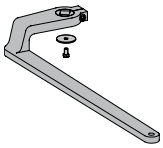
9560-3077L
Regular Long Arm Assembly

- Handed
- Includes 77 main arm assembly and 79LR linkage assembly



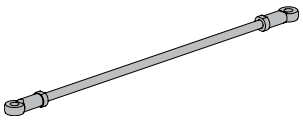
9560-3077PLCM
Standard Arm Assembly

- Handed
- Includes 3077 regular arm assembly, 3038 track, and 3034 track roller



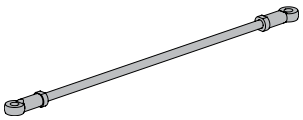
9560 -77
Main Arm

- Handed
- Attaches to motor gearbox



9560-79
Linkage Assembly

- 15″
- Threaded rod attaches to door
- Extends from main arm
- Used for reveal 1" to 10"



9560-79LR
Linkage Assembly

- 32″
- Threaded long rod attaches to door
- Extends from main arm.
- Used for reveal 10″ to 20″

Installation Accessories



9560-11A
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



9560-12
Filler Plate

- Blank
- Completes length of header box
- Specify length



9560-18
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 9560 Series

Specify hand
☐ RH
☐ LH

Specify header/length
☐ HL__ (Specify length 65″ to 98″) regular or long 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

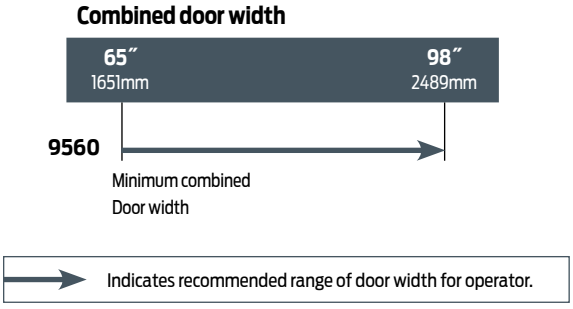
unless options listed below are selected.

Operator options

Mounting plate
☐ Plate, ___ (Specify Length 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



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 twoway 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



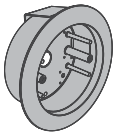
8310-856
Wall Mounted Actuator

- 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



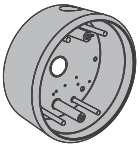
8310-856T
Wall Mounted Actuator

- Same as the 8310-856, with the added engraving of "Push to Open"



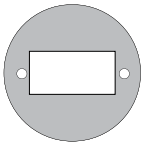
8310-868F
Flush Mount Box

- Rugged Plastic Box, 4-1/2″ Round
- Optional accessory - can be used w/any 4-1/2″ round actuator



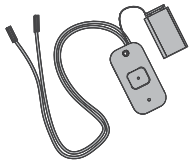
8310-868S
Surface Mount Box

- Rugged Plastic Box, 4-1/2″ Round
- Optional accessory - can be used w/any 4-1/2″ round actuator



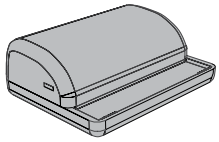
8310-800
Weather/Trim Ring

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



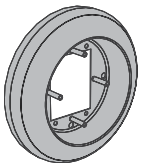
8310-844
Transmitter

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



8310-865
Receiver

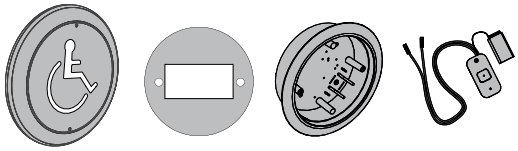
- Receiver, Wireless, 1 Channel, w/ Sequencing Feature
- Used in conjunction w/ Wireless Actuators & Transmitter(s)



8310-874
Escutcheon

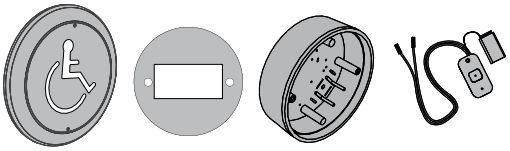
- Tapered stainless steel escutcheon covers the gap between the wall and the back of the wall plate actuators when mounted in electrical boxes (by others) to minimize cart damage or vandalism
- Optional accessory - can be used w/any 4-1/2″ round actuator
- Not to be used with wireless function

Automatic Operator Actuators & Accessories



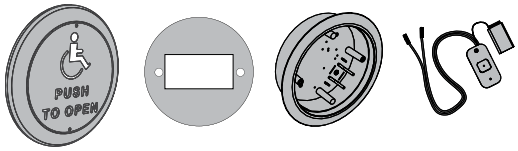
8310-3856WF
Flush Mount Kit

- 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)



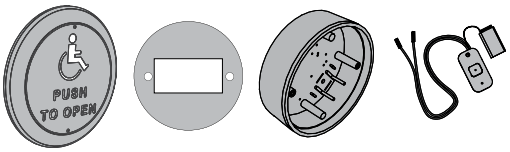
8310-3856WS
Surface Mount Kit

- 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)



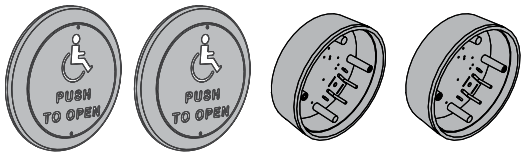
8310-3856TWF
Flush Mount Kit

- 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

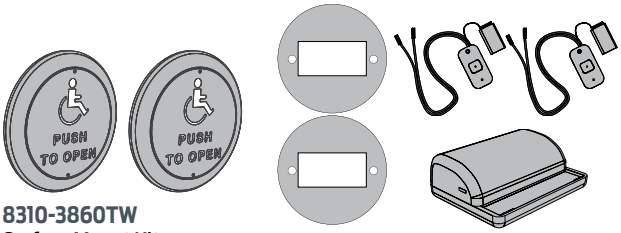
- Actuator, 4-1/2″ Round, Logo, Text, Wireless,
- Includes 8310-856T Actuator, 8310-844 Transmitter, 8310-868S Surface Box, 8310-800 Weather/Trim Ring
- Requires 8310-865 Receiver (not part of kit)



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



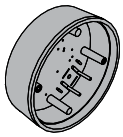
8310-852TWP
Wall Mounted Actuator

- 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



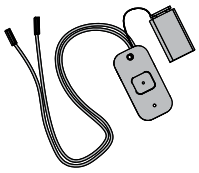
8310-869S
Surface Mount Box

- Rugged Plastic Box, 6″ Round
- Optional accessory - can be used w/ any 6″ round actuator



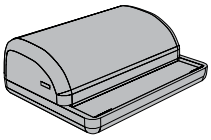
8310-802
Weather/Trim Ring

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



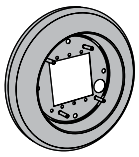
8310-8/444
Transmitter

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



8310/-865
Receiver

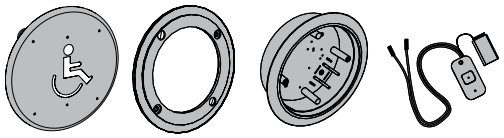
- Receiver, Wireless, 1 Channel, w/ Sequencing Feature
- Used in conjunction w/ Wireless Actuators & Transmitter(s)



8310-876
Escutcheon

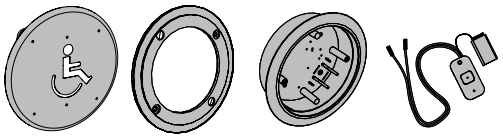
- Tapered stainless steel escutcheon covers the gap between the wall and the back of the wall plate actuators when mounted in electrical boxes (by others) to minimize cart damage or vandalism
- Optional accessory - Can be used w/ any 6″ round actuator
- Not to be used with wireless function

Automatic Operator Actuators & Accessories



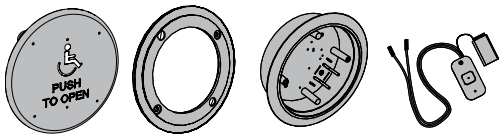
8310-3852WF
Flush Mount Kit

- 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)



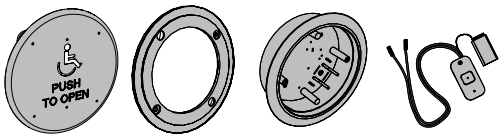
8310-3852WS
Surface Mount Kit

- 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



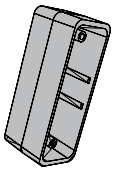
8310-818T
Jamb Mounted Actuator

- Same as the 8310-818, with the added engraving of "Push to Open"



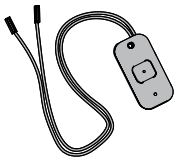
8310-819F
Flush Mount Box

- 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



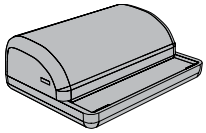
8310-819S
Surface Mount Box

- 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)



8310-865
Receiver

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

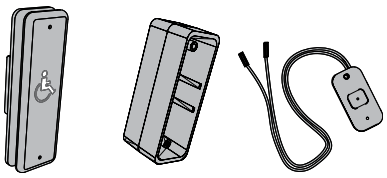
NOTE: LCN recommends for all jamb mount actuators be used on an interior installation only.

Automatic Operator Actuators & Accessories



8310-3818WF
Flush Mount Kit

- Actuator, 1-1/2″ x 4-3/4″ Rectangle, Logo, Wireless
- Includes 8310-818 Actuator, 8310-844J Transmitter, 8310-819F Flush Box
- Requires 8310-865 Receiver (not part of kit)



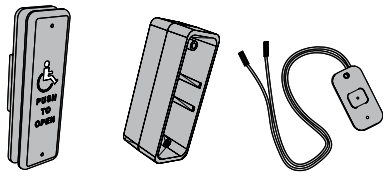
8310-3818WS
Surface Mount Kit

- Actuator, 1-1/2″ x 4-3/4″ Rectangle, Logo, Wireless
- Includes 8310-818 Actuator, 8310-844J Transmitter, 8310-819S Surface Box
- Requires 8310-865 Receiver (not part of kit)



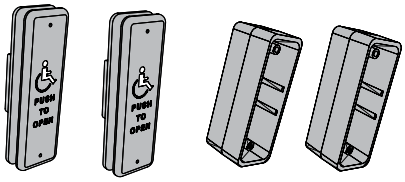
8310-3818TWF
Flush Mount Kit

- Actuator, 1-1/2″ x 4-3/4″ Rectangle, Logo, Wireless
- Includes 8310- 818T Actuator, 8310-844J Transmitter, 8310-819F Flush Box
- Requires 8310-865 Receiver (not part of kit)



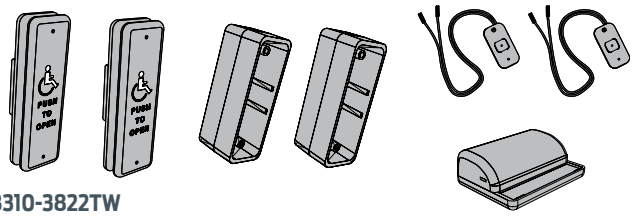
8310-3818TWS
Surface Mount Kit

- Actuator, 1-1/2″ x 4-3/4″ Rectangle, Logo, Wireless
- Includes 8310-818T Actuator, 8310-844J Transmitter, 8310-819S Surface Box
- Requires 8310-865 Receiver (not part of kit)



8310-3822T
Surface Mount Kit

- Actuator Package, 1-1/2″ x 4-3/4″, Jamb Mount
- Includes 8310-818T (2) Jamb Mount Actuator, 8310-819S (2)
- Surface Mount Box



8310-3822TW
Surface Mount Kit

- Actuator Package, 1-1/2″ x 4-3/4″, Wireless, Jamb Mount
- Includes 8310-818T (2) Jamb Mount Actuator, 8310-819S (2)
- Surface Mount Box, 8310-844J (2) Jamb Mount Transmitter, 8310-865 Receiver

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"



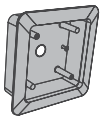
8310-853WP
Surface Mounted Actuator

- 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



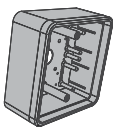
8310-853TWP
Surface Mounted Actuator

- Same as the 8310-853WP, with the added engraving of "Push to Open"



8310-867F
Flush Mount Box

- Rugged Plastic Box
- 4-3/4″ Square
- Optional accessory - can be used w/ any 4-3/4″ square actuator



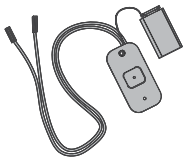
8310-867S
Surface Mount Box

- Rugged Plastic Box, 4-3/4″ Square
- Optional accessory - can be used w/ any 4-3/4″ square actuator



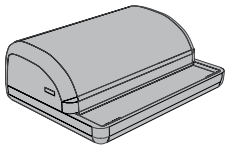
8310-801
Weather/Trim Ring

- Plastic Weather Ring, 4-3/4″ Square
- Optional accessory - can be used w/ any 4-3/4″ square plastic mounting box



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

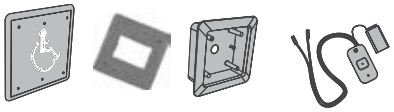
- Wireless, 1 Channel, w/ Sequencing Feature
- Used in conjunction w/ Wireless Actuators & Transmitter(s)



8310-813
Touchless Wall Mounted Actuator

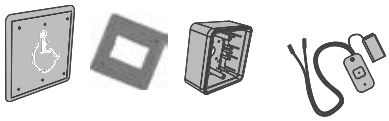
- Hardwired low voltage actuator with plastic plate in 4-3/4″ (121mm) square
- Optional mounting in single gang electrical box (by others) or double gang box (4″ x 4″ by others)

Automatic Operator Actuators & Accessories



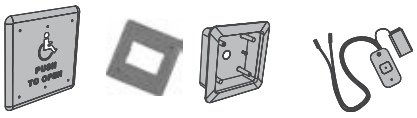
8310-3853WF
Flush Mount Kit

- 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)



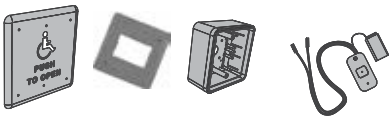
8310-3853WS
Surface Mount Kit

- 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)



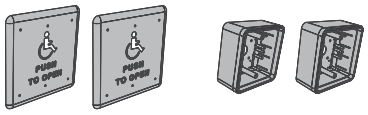
8310-3853TWF
Flush Mount Kit

- 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

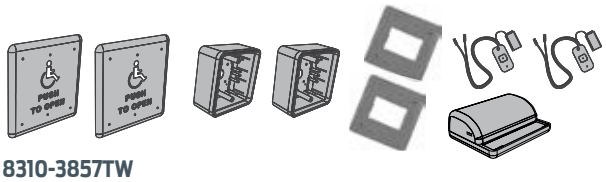
- Actuator, 4-3/4″ Square, Logo, Text, Wireless
- Includes 8310-853T, 8310-844 Transmitter, 8310-867S Surface Box, 8310-801 Weather/Trim Ring
- Requires 8310-865 Receiver (not part of kit)



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

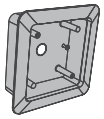
- Actuator Package, 4-3/4″ Square
- Includes 8310-853T (2) Wall Mount Actuator, 8310-867S (2) Surface Mount Box, 8310-801 (2) Weather/Trim Ring, 8310-844 (2) Transmitter, 8310-865 Receiver

Automatic Operator Actuators & Accessories



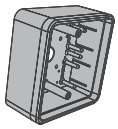
8310-855
Dual Wall Mounted Actuator

- Hardwired low voltage actuator with dual rectangle, stainless steel touch plate in 4-3/4″ (121mm) square
- Engraved blue filled handicap symbol w/ text, 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 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



8310-867F
Flush Mounted Actuator

- Rugged Plastic Box, 4-3/4″ Square
- Optional accessory - can be used w/ any 4-3/4″ square actuator



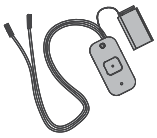
8310-867S
Surface Mount Box

- Rugged Plastic Box, 4-3/4″ Square
- Optional accessory -can be used w/ any 4-3/4″ square actuator



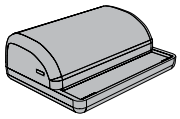
8310-801
Weather/Trim Ring

- Plastic Weather Ring, 4-3/4″ Square
- Optional accessory - can be used w/ any 4-3/4″ square plastic mounting box



8310-844
Transmitter

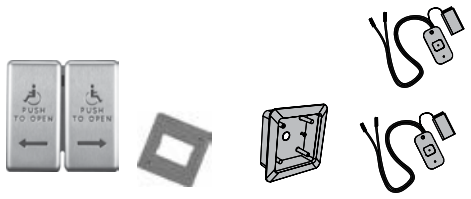
- Transmitter, Wireless, 1 Channel, 9v battery included
- Use to convert standard wall mount actuator to wireless
- Requires 8310-865 Receiver



8310-865
Receiver

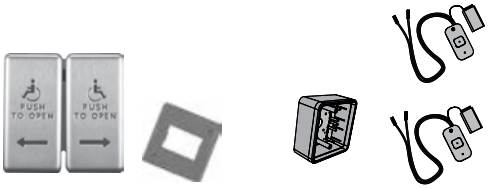
- Receiver, Wireless, 1 Channel, w/ Sequencing Feature
- Used in conjunction w/ Wireless Actuators & Transmitter(s)

Automatic Operator Actuators & Accessories



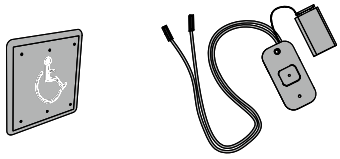
8310-3855WF
Flush Mount Kit

- 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)



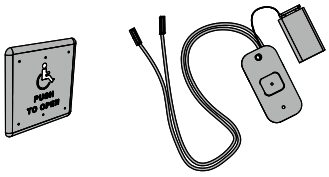
8310-3855WS
Surface Mount Kit

- 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



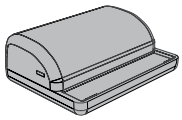
8310-836T
Full Length Actuator (FLA)

- 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



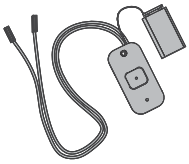
8310-836TW
Flush Length Actuator (FLA)

- Same as the 8310-836T with a built in wireless transmitter and 3v battery
- Use in conjunction with 8310-865 Receiver (not included)



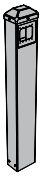
8310-865
Receiver

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



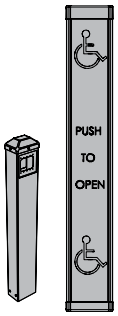
8310-844
Transmitter

- 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



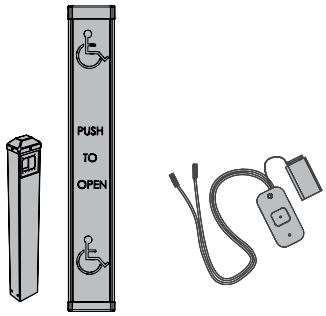
8310-866FLA
FLA Bollard Post

- 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



8310-3836T
FLA Bollard Mount Kit

- 36″ x 6″ Actuator with 8310-866FLA Bollard for wired applications

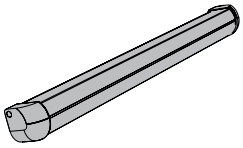


8310-3836TW
FLA Bollard Mount Kit

- 36″ x 6″ Actuator with 8310-866FLA Bollard and 8310-844 wireless Transmitter
- Transmitter requires 8310-865 Receiver (not included)

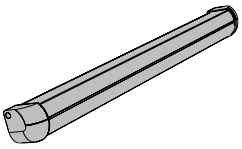
The sensors and accessories on the following pages are to be used only with LCN automatic operators. When using sensors supplied by others, consult the factory.
The desired function, traffic patterns and physical design of the opening will determine the type of sensors used.

Automatic Operator Sensors & Accessories



8310-804-1
Door Mount Safety Sensor

- Contains one active sensor module to detect obstruction(s) on leading edge of door



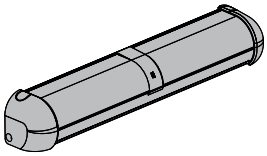
8310-804-2
Door Mount Safety Sensor

- Contains two active sensor modules to detect obstruction(s) on full face of door



8310-854
Header Mount Activation Sensor

- Activation Sensor, 'K' Band Technology
- Used to detect objects either approaching or moving away from sensor
- Uses standard 'one way' detection but additional detection can be programmed
- Optional 8310-859 Handheld Remote Control can be used to program 8310-854 sensor from a distance



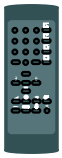
8310-877
Header Mount Safety Sensor

- Safety Sensor, 'Diffused Infrared' Technology
- Used to detect obstructions during door open and door closed position
- Nine selectable patterns
- 8310-859 Handheld Remote Control required to program 8310-877 sensor from a distance
- Includes 8310-846 Harness



8310-877S
Header Mount Safety Sensor Spacer

- Required when 8310-804-1 or 8310-804-2 Door Mount Safety
- Spacers are used w/ 8310-877 Header Mount Safety Sensor



8310-859
Handheld Remote Control

- Used to program 8310-877 Header Mount Safety Sensor or 8310-854 Header Mount Motion Sensor



8310-846
Header Mount Harness

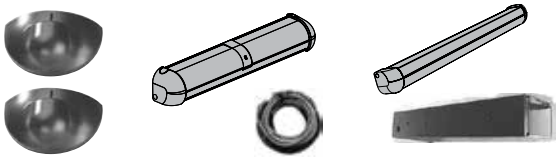
- Comes with 8310-877 Header Mount Safety Sensor



8310-847
Door Mount Harness

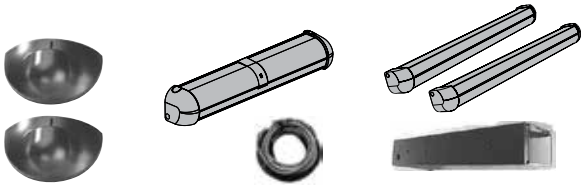
- Used with 8310-804-1 or 8310-804-2 Door Mount Safety Sensor, must order separately.
- Used with Senior Swing only, must order separately

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

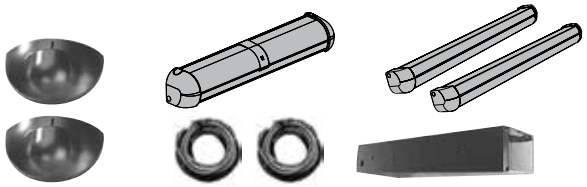
- Activation/Safety Sensor Package, Single Door
- Includes 8310-854 (2) Header Mount Activation Sensor, 8310-877 Header Mount Safety Sensor, 8310-877S Header Mount Spacer, 8310-847 Harness, 8310- 804-2 (2) Door Mount Safety Sensor (approach/safety side) (Used with Senior Swing only)



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)

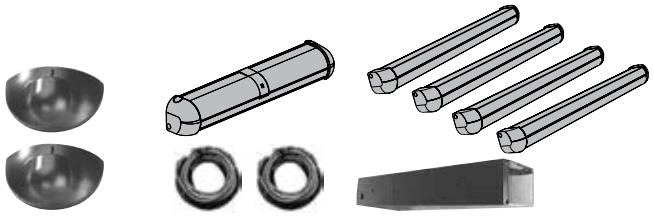
Automatic Operator Sensors & Accessories



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)

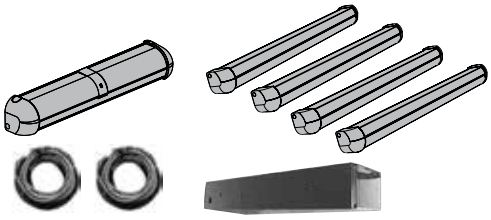
NOTE: Not for use with Double Egress



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)

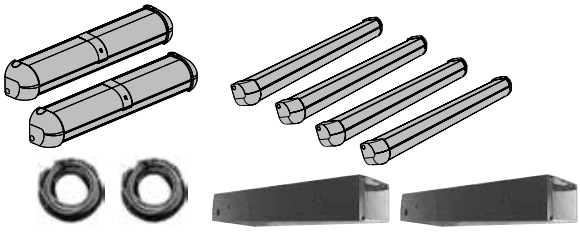
NOTE: Not for use with Double Egress



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)

Automatic Operator Sensors & Accessories



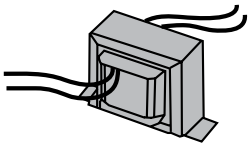
8310-805
Door Position Switch

- 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



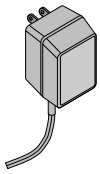
8310-805C
Door Position Switch

- 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



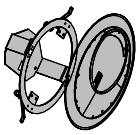
8310-824
Transformer, 24v,

- Hardwired
- Optional accessory - Used to remotely power any 24v sensor/ receiver



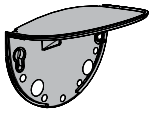
8310-824P
Transformer

- 24v, plug in
- Optional accessory - Used to remotely power any 24v sensor/ receiver



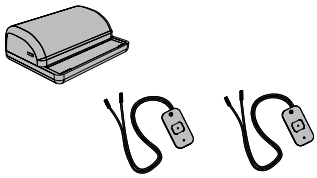
8310-854ECA
Drop Ceiling Bracket

- Bracket used w/ 8310-854 Header Mount Activation Sensor
- Optional



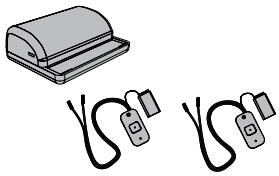
8310-854ERA
Protective Cover

- 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 w/ Senior Swing, Benchmark, or 4630/4640 Operators with (CS) option

8310-806R
Rocker Switch

- Type, 3 Position (On/Off/Hold-Open)
- Optional switch w/ Senior Swing, Benchmark, or 4630/4640
- Operators with (CS) option

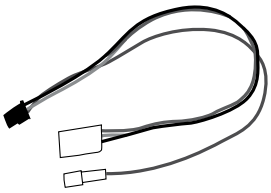
8310-807
Line Filter

- AC, 120v, Optional filter used w/ 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

Notes