

### Fastest, most accurate installation.

Improperly installed closers can fail prematurely, damaging the door, frame and hardware. Poor performance from an incorrect installation can also compromise building security and safety. LCN closers are designed for fast, easy and accurate installation, ensuring optimum performance right from the start.



LCN FAST™ Power Adjusts are a revolutionary visual indicator for spring power adjustment.



Use Peel & Stick Templates to quickly install closers in the right place so they perform properly.



Self-Reaming and Tapping (SRT) Fasteners reduce drilling and tapping time.

### LCN No-Leak™ Closers

LCN closers are guaranteed not to leak for 10 years from the date of installation. This guarantee is covered by the LCN standard warranty against defects in material and workmanship, and is subject to the specific requirements, exclusions, limitations and instructions for warranty returns included in the LCN standard warranty. See the LCN standard warranty for details. Additionally, see the product installation instructions to ensure proper installation.



### The best closers. The best value.

LCN has set the standard in the industry for high performing, reliable closers. Our formula for success is a simple one, and has been proven successful time and time again.

## Passion makes perfect. The LCN formula for success.



### Cast Iron

Heavy-duty cast iron. There isn't a stronger, harder, more reliable material for door closers that are expected to deliver millions of cycles. Cast iron is more compatible with high grade steel components and is more resistant to the wear of millions of opening/closing cycles.



### 10 Million Cycles

Why do some hardware professionals claim that LCN stands for "Last Closer Needed?" Only LCN closers were put through grueling independent cycle tests and only LCN exceeded 10 million cycles.



### Forged Steel Arms

The closing power and control generated within LCN closers is transferred to the door through forged steel arms. Forged steel arms have greater strength, better appearance and less bulk.



### Chrome Silicon

Many closer manufacturers use less expensive oil-tempered springs, but LCN engineers know that such a spring loses up to 20% of its power after a few thousand cycles. The chrome silicon springs used in LCN closers have the strength to perform beyond 10 million cycles.



#### Heat Treated

LCN forged steel pinions have larger, stronger teeth and are double heat treated for the greatest possible strength on the shaft. Heat treating makes the pinion harder, better able to resist wear after years of service and results in less stress on the cylinder.



#### Customized Products

When a standard door closer won't do the job, there is only one proven, reliable source for special solutions — LCN. With over 3,000 special templates on file, LCN can provide a door control solution for one-of-a-kind doors such as vault, balanced, over-sized and arch doors.



#### All-Weather Fluid

LCN uses a special formula hydraulic fluid that acts as an insulator to keep closer components working smoothly. This unique all-weather, fire-resistant hydraulic fluid eliminates the need for seasonal adjustments.



#### Customer Service

At a time when machines are picking up more and more customer calls, real people are answering the phones at LCN. Every member of our customer service staff is trained and qualified to assist you with orders, closer selection and scheduling.



### 4040XP



4040XP Shown

**The most durable heavy-duty door closer providing the most reliable performance and longest life in “real world” abusive conditions.**

#### FEATURES & BENEFITS

- Shipped with standard heavy-duty EDA arm, standard plastic cover, and self-reaming and tapping screws
- Non-sized cylinder is adjustable for interior doors to 5'0" (1524 mm) and exterior doors to 4'0" (1219 mm)
- Closer mounts parallel arm (EDA arm) on either right or left swinging doors
- Optional hinge side and top jamb mount with optional regular arm
- Closers meet ADA requirements
- Standard powder coat finish
- 44% increase in load bearing capacity
- Strongest pinion ever at 3/4" diameter
- Widest bearing ever - 5/8"
- Stronger pinion teeth
- New V-Shield™: advanced sealing technology with 20% longer life
- Cast iron construction
- Forged steel arm
- Double heat treated steel pinion
- All-weather fluid eliminates seasonal adjustments
- Non-handed design for installation flexibility
- LCN Fast™ power adjust
- UL and cUL Listed
- Tested and certified under ANSI Standard A156.4, Grade 1



#### AVAILABLE OPTIONS

- Custom powder coat finish
- Plated finish on metal cover, arm and fasteners
- SRI primer for installations in corrosive conditions\*
- Designer series metal cover

\*Available with powder coat only

### 4040/4040T Series Closers



P4040 Shown

#### BEST FLEXIBILITY

**Rugged, reliable, universal door closer designed for high traffic applications, both indoors and out.**

#### FEATURES & BENEFITS

- Cast iron cylinder offers proven durability
- Forged steel EDA arm standard
- Non-handed
- FAST™ Power Adjust allows accurate on-site spring power adjustment to meet the condition of the opening (4040 only)
- UL/cUL Listed for self-closing, fire-rated doors without hold open
- Non-sized cylinder is adjustable for interior doors to 5'0" (1524mm) and exterior doors to 4'0" (1219mm)
- Closers to mount hinge side, top jamb or parallel arm
- Size one cylinder meets ADA requirements on 3'0" (914mm) interior door
- Tested and certified under ANSI Standard A156.4, Grade 1
- All-weather fluid eliminates seasonal adjustments

#### AVAILABLE OPTIONS

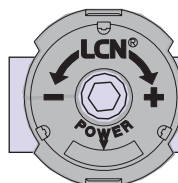
- Designer series non-handed metal cover provides smooth contoured look
- Metal cover available
- SRI primer provides additional protection to an already durable powder coat finish
- Custom colors allow the closer to match unique door and frame finishes
- Plated finishes are also available



= Complies with ADA Accessibility Guidelines



= Helps meet LEED certification

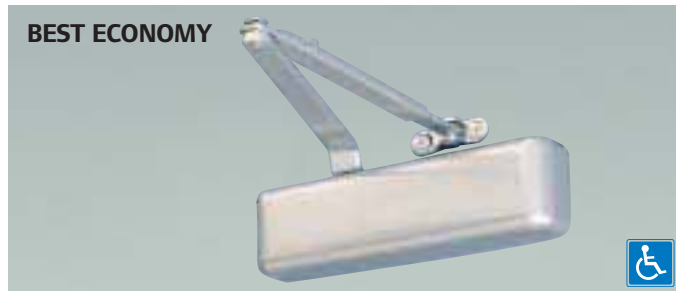


Many of the 4000 Series closers include the LCN FAST™ Power Adjust, a revolutionary visual indicator for spring power adjustment.

# 4000 Series

## Surface Mounted Closers

### 4030/4030T Series Closers



**BEST ECONOMY**

4030 Shown

**The 4030 is a cast iron, universal closer designed specifically for interior doors in moderate traffic applications.**

#### FEATURES & BENEFITS

- Cast iron cylinder offers proven durability
- Forged steel main arm, multiple arm options
- Heat-treated steel pinion
- Standard metal cover
- UL/cUL Listed for self-closing, fire-rated doors without hold open
- Non-sized (1-4) 4031 cylinder for exterior doors to 36" (914mm) and interior doors to 48" (1219mm)
- Closer mounts hinge side, top jamb and parallel arm, on either right or left swinging doors
- Size one cylinder meets ADA requirements on a 3'0" (914mm) interior door
- Seven standard powder coat finishes available
- Tested and certified under ANSI Standard A156.4, Grade 1
- All-weather fluid minimizes seasonal adjustments

#### AVAILABLE OPTIONS

- SRI primer provides additional protection to an already durable powder coat finish
- Custom colors allow the closer to match unique door and frame finishes
- Plated finishes are also available

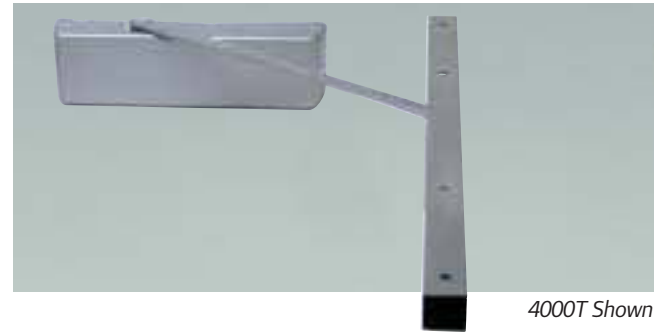


= Complies with ADA Accessibility Guidelines



= Helps meet LEED certification

### 4000T Series Closers



4000T Shown

**The 4000T Series is LCN's heavy-duty track closer designed specifically for interior pocket doors in institutional and other rugged, high traffic applications.**

#### FEATURES & BENEFITS

- Cast iron cylinder offers proven durability
- Forged steel arm
- Double heat treated steel pinion
- UL/cUL Listed for self-closing, fire-rated doors without hold-open
- 4000T provides wall pocket installation for fire/life safety in an aesthetically pleasing application – use SEM7850 wall magnet for complete installation
- Uses modified 4040 cylinder which has passed 10 million cycles in independent testing
- Non-handed
- Sized cylinders for interior doors to 4'0" (1219mm)
- Closer used for pocket installation
- Seven standard powder coat finishes available
- Tested and certified under ANSI Standard A156.4, Grade 1
- All-weather fluid eliminates seasonal adjustments

#### AVAILABLE OPTIONS

- Metal cover available
- SRI primer provides additional protection to an already durable powder coat finish
- Custom colors allow the closer to match unique door and frame finishes
- Plated finishes are also available

## SEM 7820/SEM 7830/SEM 7840/ SEM 7850/SEM 7870 Magnets



SEM7830 Shown 

The Sentronic® SEM 7800 is a series of tri-voltage, heavy-duty, electrically controlled door-holding magnets. Magnets are fail-safe and hold until the current is interrupted. A manual door closer is used to control and close the door. A choice of floor-mounted, dual-sided floor-mounted, recessed wall or surface-mounted wall magnets is available.

### CONFIGURATION

- SEM7820 - Floor-mounted magnet
- SEM7830 - Surface wall-mounted magnet
- SEM7840 - Low profile, recessed wall-mounted magnet
- SEM7850 - Standard profile, recessed wall-mounted magnet
- SEM7870 - Dual-sided floor-mounted magnet

### FEATURES & BENEFITS

- Tri-voltage
- 35 lb. holding force
- UL Listed
- Die-cast housing
- Available in seven standard finishes
- Stick-on template for easy installation
- Suitable for pocket installations
- 7800 Series magnets are shipped with a screw pack for attachment of the door-mounted armature

### AVAILABLE OPTIONS

- All SEM magnets are available in 12VDC, 24VAC/DC or 120VAC
- Choice of standard finishes: aluminum, dark bronze, brass, black, light bronze, statuary bronze, tan
- Custom colors allow magnets to closely match unique door and frame finishes

## SEM 1960/SEM 1970/ SEM 1980 Magnets

**NEW**



SEM 1960 Shown 

The Sentronic SEM 1900 Series are tri-voltage, electrically controlled door-holding magnets. Magnets are fail-safe until current is interrupted. A manual door closer is used to control and close the door. A choice of surface or recessed wall magnets is available.

### CONFIGURATION

- SEM1960 - Surface wall-mounted magnet
- SEM1970 - Low-profile, recessed wall-mounted magnet
- SEM1980 - Standard profile, recessed wall-mounted magnet

### FEATURES & BENEFITS

- Tri-voltage
- 35 lbs. holding force
- UL Listed
- Plastic housing
- Stick-on template for easy installation
- Suitable for pocket installations
- 1900 Series magnets are shipped with a screw pack for attachment of the door-mounted armature

### AVAILABLE OPTIONS

- All SEM magnets are available in 12VDC, 24VAC/DC or 120VAC
- Choice of standard finishes: aluminum, dark bronze



= Conforms to life safety code NFPA 101



= Helps meet LEED certification

# Fire/Life Safety Closers/ HOLDERS

## SEM 7810 Magnet Armature Extension Kit



SEM 1960 Shown

This 85-piece kit provides multiple-sized extensions and ball pivot/connector links to meet fire/life safety needs. The links can also be put together for multiple armature extension length options.

### KIT INCLUDES:

- 10 - 1/2" extensions
- 10 - 3/4" extensions
- 10 - 1" extensions
- 4 - 2" extensions
- 5 - 4" extensions
- 25 - ball pivot/connector links
- All armature extension kit components can be ordered separately



= Conforms to life safety code NFPA 101



= Helps meet LEED certification

## 3130SE/4040SE Series Holder/Closers



4040SE Shown

The 4040SE Sentronic is a heavy-duty, non-handed, non-sized closer/holder designed to provide single point hold-open for fire and smoke barrier doors. The door is held open until current interruption releases the holding mechanism and the door closes. The single lever (track) arm closer is specifically designed for interior doors. Choice of finishes, track functions and installation accessories meet virtually all life safety requirements.

### FEATURES & BENEFITS

- UL Listed for smoke barrier or labeled fire doors and cUL Listed for self-closing doors without hold-open
- Conforms to life safety code NFPA 101
- Cast iron cylinder offers proven durability
- 4040SE non-sized cylinders for interior doors to 4'0" (1219mm)
- Hold-open force is adjustable
- Momentary on/off switch board assembly for testing door release also provides over-voltage protection and is field replaceable
- Functions as a full rack-and-pinion closer when hold-open is not engaged or current is interrupted
- Closers to mount on either push or pull side of the door (4040SE)
- Closer can be concealed (3130SE)
- Non-handed
- Concealed or surface wiring
- Interfaces with alarm systems (consult factory for full details)
- Seven standard powder coated finishes available on cover and arm
- Tested and certified under ANSI Standard A156.4, Grade 1
- All-weather fluid eliminates seasonal adjustments

### AVAILABLE OPTIONS

- Metal cover available (4040SE only)
- Double egress arm available (4040SE only), consult factory
- Custom colors allow the closer to closely match unique door and frame finishes
- Plated finishes are also available

## 2310ME/4310ME/4410ME Series Holder/Closers



4310ME Shown 

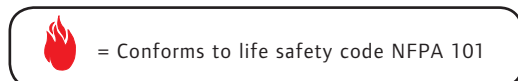
The 2310ME/4310ME/4410ME Sentronic is a heavy-duty, electrically controlled closer/holder designed to provide adjustable hold-open for fire and smoke barrier doors. Door is held open until current interruption releases mechanism and the door closes. Single lever (track) arm closer is specifically designed for interior doors. Choice of finishes, cylinder functions and installation accessories meet virtually all life safety requirements.

### FEATURES & BENEFITS

- UL Listed for smoke barrier or labeled fire doors
- Conforms to life safety code, NFPA 101
- Sized cylinders for interior doors to 4'0" (1219mm)
- Functions as full rack-and-pinion door closer when hold-open is not engaged or current is interrupted with Swing-Free arm engaged
- Handed for right or left swinging door
- ME Series available in hinge side mount, stop face mount or concealed in frame
- Concealed or exposed electrical connections
- Built-in "On/Off" switch controls hold-open function
- Swing-Free arm allows door to be moved without door closer resistance (4310ME only)
- Interfaces with fire alarm systems (consult factory)
- Seven standard powder coated finishes available
- Tested and certified under ANSI Standard A156.4, Grade 1
- All-weather fluid eliminates seasonal adjustments

### AVAILABLE OPTIONS

- Optional hold-open bypass feature available
- Custom colors allow the closer to match unique door and frame finishes
- Plated finishes are also available



## 4310HSA/4410HSA Series Holder/Closers



4310HSA Shown 

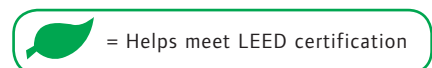
The 4310HSA/4410HSA Series offers an electrically controlled closer/holder designed to provide easy passage for groups of pedestrians through high traffic doors. Pedestrians, moving through the doorway, trigger the built-in scanner. When the door is opened to 80° or more, the door is electrically held open to minimize wear and tear on applied door hardware. After the last pedestrian in a group passes through the doorway the system timer releases the hold-open, closing the door under control of the heavy-duty closer. Single lever (track) arm closer is specifically designed for pull-side mounting. Choice of finishes and accessories meet virtually all high-traffic installation requirements.

### FEATURES & BENEFITS

- UL Listed for smoke barrier or labeled fire doors
- Conforms to life safety code NFPA 101
- HSA features a scanner-activated hold-open function
- Hold-open period is adjustable up to 30 seconds
- Non-sized cylinders for interior doors to 4'0" (1219mm) or exterior doors to 3'0" (914mm)
- Functions as full rack-and-pinion door closer when current is interrupted or continuous hold-open is not engaged
- Handed for right or left swinging door
- HSA Series can be mounted hinge side or stop face
- Concealed or surface wiring, 24VAC/DC input only; 120VAC input requires 4040SE-3210 transformer
- Built-in "On/Off" switch provides continuous hold-open function
- Seven standard powder coated finishes available
- Tested and certified under ANSI Standard A156.4, Grade 1
- All-weather fluid eliminates seasonal adjustments

### AVAILABLE OPTIONS

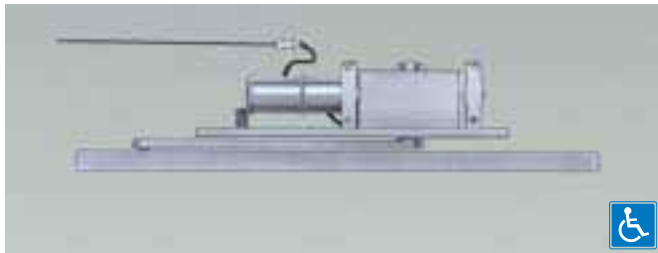
- Custom colors allow the closer to match unique door and frame finishes
- Plated finishes are also available





# High Security Closers

## 2210/2210DPS Series Closer



2210DPS Shown

The concealed 2210 Series, heavy-duty, high-security track closer features complete concealment with special components to minimize tampering and vandalism. Forged steel single-lever arm and heavy steel mounting plate are designed for correctional, vandal-prone, institutional and other high traffic applications. A choice of finishes and cylinder functions meet correctional and vandal-resistant requirements.

### FEATURES & BENEFITS

- Cast iron cylinder offers proven durability
- Forged steel main arm
- Double heat treated steel pinion
- UL/cUL Listed for self-closing, fire-rated doors without hold-open
- Sized cylinders for interior doors to 4'6" (1372mm) and exterior doors to 3'6" (1067mm)
- Closer mounts in head frame
- 10-year warranty (2210); two year warranty (2210DPS)
- Size one cylinder meets ADA requirements on a 3'0" (914mm) interior door
- Seven standard powder coat finishes available
- Tested and certified under ANSI A156.4, Grade 1
- All-weather fluid eliminates seasonal adjustments

### AVAILABLE OPTIONS

- Optional door position switch (DPS)
- SRI primer provides additional protection to an already durable powder coat finish (2210 only)
- Custom colors allow the closer to match unique door and frame finishes
- Plated finishes are also available



= Complies with ADA Accessibility Guidelines

## 4210/4210T/4510/ 4510T Series Closers



4210 Shown

The 4210/4510 Series is a heavy-duty, high-security closer with special components to minimize tampering and vandalism. Forged steel double lever arms and heavy gauge metal security covers are designed for correctional, vandal prone, institutional and other high traffic applications. The closer has passed 10,000,000 cycles in independent testing. A choice of finishes and cylinder functions meet correctional and vandal-resistant requirements.

### FEATURES & BENEFITS

- Cast iron cylinder offers proven durability
- Forged steel main arm
- Double heat-treated steel pinion
- UL/cUL Listed for self-closing, fire-rated doors without hold open
- Sized cylinders for interior doors to 5'0" (1524mm) and exterior doors to 4'0" (1219mm)
- Non-sized cylinder adjustable for interior doors to 4'6" (1372mm) and exterior doors to 3'6" (1067mm)
- Closers to mount hinge-side, stop face or parallel mount side
- Handed for either right or left swinging door
- Size one cylinder meets ADA requirements on a 3'0" (914mm) interior door
- Seven standard powder coat finishes available
- Tested and certified under ANSI Standard A156.4, Grade 1
- All-weather fluid eliminates seasonal adjustments

### AVAILABLE OPTIONS

- SRI primer provides additional protection to an already durable powder coat finish
- Custom colors allow the closer to match unique door and frame finishes
- Plated finishes are also available

## 330/3030/3130 Series



3130 Shown



The concealed 330/3030/3130 Series is designed to mount in a 1-3/4" interior door. The double-lever arm version provides superior door control, and the choice of finishes and arm functions meet virtually all architectural requirements.

### FEATURES & BENEFITS

- Sized cylinders (330 or 3030) for interior doors to 4'0" (1219mm)
- Sized cylinders (3130) for interior doors to 3'2" (965mm)
- Handed for right or left swinging doors
- Size one cylinder meets ADA requirements on a 3'0" (914mm) interior door
- Consult factory for installations with pivots
- Seven standard powder coat finishes available
- Tested and certified under ANSI Standard A156.4, Grade 1
- All-weather fluid eliminates seasonal adjustments

### AVAILABLE OPTIONS

- SRI primer provides additional protection to an already durable powder coat finish
- Custom colors allow the closer to match unique door and frame finishes
- Plated finishes are also available

## 2010/5010 Series



2010 Shown



The concealed 2010/5010 Series offers a heavy-duty closer designed for institutional, high traffic or other applications exposed to weather or abuse. The double-lever arm version provides superior door control, and a choice of finishes, cylinder functions and arm functions that meet virtually all architectural requirements.

### FEATURES & BENEFITS

- Sized cylinders for interior doors to 5'0" (1524mm) and exterior doors to 4'0" (1219mm)
- Handed for right or left swinging doors
- For hollow metal or wood door and frame
- Aluminum frame requires minimum 4" (102mm) x 4" (102mm) tube
- Size one cylinder meets ADA requirements on a 3'0" (914mm) interior door
- Seven standard powder coat finishes available
- Tested and certified under ANSI Standard A156.4, Grade 1
- All-weather fluid eliminates seasonal adjustments

### AVAILABLE OPTIONS

- SRI primer provides additional protection to an already durable powder coat finish
- Custom colors allow the closer to match unique door and frame finishes
- Plated finishes are also available



= Complies with ADA Accessibility Guidelines



= Helps meet LEED certification

# Concealed Closers

## 2030/5030/6030 Series



2030 Shown

**The concealed 2030/5030/6030 Series PACER® is a heavy-duty closer designed to fit in a narrow, minimum 1-3/4" aluminum transom. The double-lever version provides superior door control, and the choice of finishes and arm functions meets virtually all architectural requirements.**

### FEATURES & BENEFITS

- Sized cylinders for interior doors to 5'0" (1524 mm) and exterior doors to 4'0" (1219 mm)
- Handed for right or left swinging doors (2030/5030)
- Aluminum frame requires minimum 1-3/4" (44mm) x 4-1/2" (114mm) tube (5030)
- Aluminum frame requires minimum 1-3/4" (44mm) x 4" (102mm) tube (2030/6030)
- Size one cylinder meets ADA requirements on a 3'0" (914mm) interior door
- Double acting closer available (6030)
- Seven standard powder coat finishes available
- All-weather fluid eliminates seasonal adjustments

### AVAILABLE OPTIONS

- SRI primer provides additional protection to an already durable powder coat finish
- Custom colors allow the closer to match unique door and frame finishes
- Plated finishes are also available



= Complies with ADA Accessibility Guidelines



= Helps meet LEED certification

### 1460/1460T Series



1460 Shown

Designed for maximum versatility, the 1460 is available with multiple cover options and can be used for both commercial and institutional applications. This fully universal closer offers a wide variety of options and is fast and accurate to install.

#### FEATURES & BENEFITS

- Cast iron cylinder provides proven durability
- Slim line cover is standard
- Non-sized (1-6) cylinder is adjustable for interior doors to 5'0" (1524 mm) and exterior doors to 4'0" (1219 mm)
- Closers to mount hinge side, top jamb and parallel arm
- Non-handed
- Rotational indicator dial helps installer apply proper spring power
- Size one cylinder meets ADA requirements on a 3'0" (914mm) interior door
- Peel-and-stick template for easy installation
- UL/cUL Listed for self-closing, fire-rated doors without hold open
- All-weather fluid eliminates seasonal adjustments

#### AVAILABLE OPTIONS

- Optional delayed action provides additional adjustable closing time
- Multiple cover options include; Smooth Slim Line (EC), Full Cover (FC) and Designer Series (DS)
- Full Cover provides complete cylinder enclosure
- Designer Series non-handed metal cover provides contoured look
- SRI primer provides additional protection to an already durable powder coat finish
- Custom colors allow the closer to match unique door and frame finishes
- Plated finishes are also available (must use Designer Series (DS) cover)



### 1260 Series



1260 Shown

Introducing the perfect mix of performance and durability, the 1260 Series closer from LCN. The NEW 1260 series combines the best features from the previous 1070 and 1370 into a single versatile and economical cast iron closer.

#### FEATURES & BENEFITS

- Fully adjustable 1-5 spring
- Full line of arm options
- Peel-n-stick template for easy installation
- Designed for the most common commercial footprint (3/4" x 9 1/16")
- New O-ring for longer life and durability
- Standard powder coat finish
- Meets ADA requirements
- Tested and certified under ANSI A156.4, Grade 1

#### AVAILABLE OPTIONS

- Slim-line cover option
- Optional SRI primer for corrosive environments
- Optional delayed action provides additional adjustable closing time
- Custom color powder coat finishes to match unique door and frame finishes
- Choice of arm options: Regular, parallel, long, hold open, EDA, HEDA, Cush, HCush, SCush, SHCush (please specify)



= Complies with ADA Accessibility Guidelines



= Helps meet LEED certification

EXPERT TIP

## LET YOUR INGERSOLL RAND SECURITY AND SAFETY CONSULTANTS MAKE YOUR JOB EASIER.



Whether you need assistance writing a complex specification or some good advice on what products work best for an opening, Ingersoll Rand Security and Safety Consultants can help. Our team of specification writers, end-user sales representatives and distribution sales representatives can answer your questions and solve complex application challenges. Security and Safety Consultants' services include:

- keying consultation
- hardware consultation
- application information
- direction for services
- development of custom specification guides

### A nationwide network.

Our in-field team of consultants is one of the best in the industry, and offers some of the best technical and business support in the business. With 440 sales consultants at 23 offices across the country, we offer a level of support that no other manufacturer can match. And with the nation's largest network of wholesale distributors, the help and products you need are easily within reach.

## What is ADA?



The ADA is a civil rights law, not a building code. This act is designed to provide protection for people with disabilities. The law is divided into four major titles that prohibit discrimination against people with disabilities in Employment (Title I), Public Service (Title II), Public Accommodations (Title III) and Telecommunications (Title IV). Title III concerns doors and door control.

**What is the intent of ADA, Title III?** Essentially, owners of certain types of buildings must remove barriers and provide people with disabilities with access equal to, or similar to, that available to the general public.

**How does ADA affect a building's entrance?** The ADA defines an "accessible" opening as that which, among other things, provides a door with a minimum 32" (813mm) clear opening, easily manipulated handles, a maximum opening force, a minimum closing time and capability of opening to at least 90°.



## LCN ADA Solutions

- The proven standard in schools and healthcare facilities for over 25 years
- Six distinct low-energy products to meet all ADA applications
- Unique fast and accurate installation features
- Easy-to-adjust smart diagnostic controls
- Easily retrofitted into existing doors and frames as well as new construction

# Automatic Operators

## Application Guide

### APPLICATION GUIDE

	Design & System	Use		Traffic			Durability	
		Primary Use	Secondary Use	High 	Medium 	Low 	Heavy	Standard
<b>AUTOEQUALIZER™ - ELECTRIC</b>  4630 Shown 	Electro Hydraulic	Manual	Automatic	✓	✓	✓	✓	✓
<b>AUTOEQUALIZER™ - PNEUMATIC</b>  4810 Shown 	Pneumatic Hydraulic	Manual	Automatic	✓	✓	✓	✓	✓
<b>SENIOR SWING</b>  9540 Shown 	Electro Mechanical	Automatic	Manual	✓	✓	✓	✓	✓
<b>MIDDLE SWING*</b>  9740 Shown 	Electro Mechanical	Automatic	Manual	✓	✓	✓	✓	✓
<b>ASTRO SWING*</b>  9340 Shown 	Electro Mechanical	Automatic	N/A	✓	✓	✓	✓	✓
<b>BENCHMARK</b>  9140 Shown 	Electro Mechanical	Automatic /Manual	Automatic /Manual		✓	✓		✓

 = Complies with ADA Accessibility Guidelines

#### TRAFFIC LEVEL GUIDE



= HIGH TRAFFIC APPLICATIONS



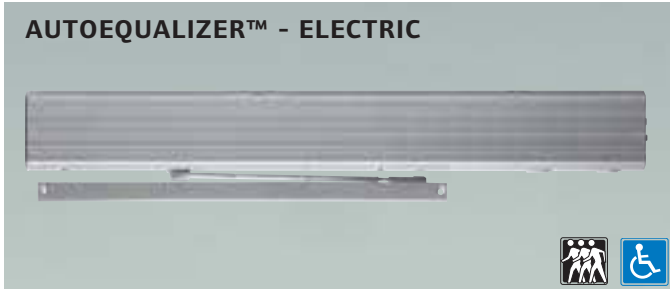
= MEDIUM TRAFFIC APPLICATIONS



= LOW TRAFFIC APPLICATIONS

## 4630/4640 Series

### AUTOEQUALIZER™ - ELECTRIC



4630 Shown

## 2610/4810/4820/4840 Series

### AUTOEQUALIZER™ - PNEUMATIC



4810 Shown

The 4630/4640 AUTO-EQUALIZER™ is LCN's smart and reliable, electrically powered, low-energy automatic operator. It provides easy access for people who need additional assistance. Designed primarily for manual opening applications that occasionally require automatic opening.

Fully compliant with UL and cUL 325 and 228, and meets ANSI standards A117.1, A156.19 and the Americans with Disabilities Act.

#### FEATURES & BENEFITS

- Non-sized cylinders for interior doors to 4' (4630), 4' 6" (4640) and exterior doors: 3' (4635), 4' (4640)
- Non-handed
- New Digital Control Suite with on-board diagnostics ensures trouble-free installation
- Integrates LCN's 10 million cycle heavy duty 4040 cylinder
- Convenient on-board power supply to power actuators and electric strikes
- Backup factory default memory allows unit to reset to original settings in just seconds
- Plug-n-play connections allow quick installation of motion sensors and safety sensors
- No Destruct feature ensures long life even in abusive applications
- Guard rails and safety mats are not required
- Meets ADA requirements (power mode only)
- Easily accessible switches provide on/off and continuous hold-open functions.
- Control module provides all timing and sequential door functions, electric strike control, and adjustments for opening speed and force
- Seven standard powder coated finishes available

#### AVAILABLE OPTIONS

- Concealed ON/OFF switch
- Custom colors allow the closer to match unique door and frame finishes
- Plated finishes are also available

The 2610/4810/4820/4840 AUTO-EQUALIZER is LCN's pneumatically powered multi-door solution. This low energy automatic operator provides easy access for people who need additional assistance. Designed primarily for manual opening applications that occasionally require automatic opening. Ideal for applications such as churches and libraries where noise level is a concern.

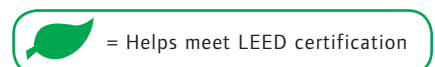
Fully compliant with UL 228 and meets ANSI standards A117.1, A156.19, and the Americans with Disabilities Act.

#### FEATURES & BENEFITS

- Non-sized cylinders for interior doors to 4' (2610/4810), 4' 6" (4640), and exterior doors to 3' (4635), 4' (4640)
- Non-handed (4810, 4820, 4840)
- Handed for right or left swinging door (2610)
- Ideal for multi-door applications since cost-per-door leaf decreases significantly as the number of door leaves increases
- Complete unit tested to over three million automated cycles, 10 times the industry standard
- Integrates LCN's 10 million cycle, heavy duty 4040 cylinder
- Provides quiet, efficient and reliable operation
- Available "Blow Open" control box that is controlled by smoke evacuation system
- Requires LCN control boxes with internal compressor or control box using auxiliary air supply (see page 111)
- Guard rails and safety mats are not required
- Meets ADA requirements (power mode only)
- Seven standard powder coated finishes available

#### AVAILABLE OPTIONS

- SRI primer provides additional protection to an already durable powder coat finish
- Custom colors allow the closer to match unique door and frame finishes
- Plated finishes are also available





# Automatic Operators

## 2800/9500 Series

### SENIOR SWING

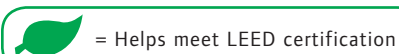


9540 Shown

The **SENIOR SWING** by LCN is an ADA automatic operator that is a two-in-one swing door operator. **SENIOR SWING** operators, when activated, open doors automatically for wheelchair access or additional assistance, yet allow for manual operation for regular pedestrian traffic.

### FEATURES & BENEFITS

- Power Boost-assisted closing assures secure latching regardless of drafts, wind gusts or pressure differentials
- Complete unit tested internally to over 10 million cycles
- Push'N' Go feature for automatic requirements without the added expense of optional activation accessories
- Electromechanical unit, digital with keypad for quick and easy setup
- Auto reverse on opening and closing cycle provides safety by reversing direction when coming into contact with a person/object
- Fast and easy installation
- Meets international building code requirements and ANSI A156.19
- UL approved for fire doors
- No guard rails or safety mats needed due to low energy design
- Bottom load capability for simplified field adjustability and quicker installations
- Single door, surface mounted or concealed
- Meets ADA requirements (power mode only)
- Handed product
- 36" header length is standard; specify length 30" to 49" max
- Double door header available up to 98", specify other length 49" to 98" max. (Consult factory regarding this option)
- Adjustable hold-open period of 2 to 32 seconds in automatic mode
- Quick connect wiring system with Molex-type plugs allows for easy field connections
- Fully compliant with UL 325 and 1998



## 2900/9700 Series

### MIDDLE SWING\*



9740 Shown

The **MIDDLE SWING** by LCN is a low-energy automatic operator that is a cost-effective solution to ADA-compliance. In automatic mode, push button controls open the door automatically and permit safe, easy access for those who need additional assistance. This swing operator acts as a regular pedestrian door without automatic activation.

### FEATURES & BENEFITS

- In manual mode only requires 8-1/2 lbs of opening force
- Complete unit tested internally to over 10 million cycles
- Push'N' Go feature for automatic requirements without the added expense of optional activation accessories
- Electromechanical unit, digital with keypad for quick and easy setup
- Auto reverse on opening and closing cycle provides safety by reversing direction when coming into contact with a person/object
- Fast and easy installation
- Meets international building code requirements and ANSI A156.19
- UL approved for fire doors
- No guard rails or safety mats needed due to low energy design
- Bottom load capability for simplified field adjustability and quicker installations
- Single door, surface mounted or concealed
- Meets ADA requirements (power mode only)
- Handed product
- 36" header length is standard; specify length 30" to 49" max
- Double door header available up to 98"; specify other length 49" to 98" max. (Consult factory regarding this option)
- Adjustable hold-open period of 2 to 32 seconds in automatic mode
- Quick connect wiring system with Molex-type plugs allows for easy field connection

## 9100 Series



9140 Shown 

The **BENCHMARK** by LCN is an electrically powered low-energy operator that provides easy access for people who need additional assistance. 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.

### FEATURES & BENEFITS

- Push 'N' Go feature for automatic requirements without the added expense of optional activation accessories
- Complete unit tested to over three million automated cycles, 10 times the industry standard
- Microprocessor control box for reliability
- Auto reverse on opening cycle provides safety by reversing direction when coming into contact with a person/object
- Available on-board power supply to power actuators, electric strikes and peripherals with optional premium control box
- No guard rails or safety mats needed due to low energy design
- Adjustable manual opening force to maximize on site adjustment requirements
- Meets ADA requirements (power mode only)
- On/off switch included as standard
- Non-handed for either right or left swinging door
- 27" cover is standard; full length covers available up to 49" for single doors
- UL Listed for fire rated applications
- Tested and certified under ANSI A156.19
- Fully compliant with UL 325

## 2500/9300 Series



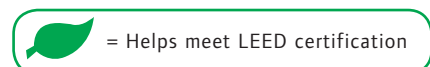
with Motion Sensor 

9340 Shown

The **ASTRO SWING** by LCN is a high-energy operator constructed to meet the stringent demands of high volume, high traffic environments. **ASTRO SWING** operators allow flexible control over closing force, opening speed, backcheck speed, hold-open duration and more, all within ANSI guidelines.

### FEATURES & BENEFITS

- Microprocessor control box for reliability
- Electromechanical unit, digital with keypad for quick and easy setup
- Adjustable opening, closing and backcheck speeds
- Tested up to 300,000 cycles
- Meets International Building Code requirements and ANSI A156.10
- Power Boost provides additional latching force
- Astro Swing operators are shipped with motor gearbox, control box, system arm, header and mounting hardware
- Handed product
- 36" header length is standard. Specify length 30" to 49" max.
- Double door header available up to 98"; specify other length 49" to 98" max. (Consult factory regarding this option)
- Quick connect wiring system with Molex-type plugs allows for easy field connections
- High energy operators must be ordered with guide rails and safety devices
- Must be installed by AAADM certified individuals
- UL Listed for fire rated applications
- Fully compliant with UL 325



# Automatic Operators

## Actuators & Accessories



8310-856 shown

8310-854 shown

### HARDWIRED ACTUATORS:

#### Wall Mount

- Stainless steel plate
- Engraved symbol conforms to entrance accessibility codes
- Available in 6" or 4-1/2" diameter jamb mount
- Stainless steel plate
- Mounts in door jamb as narrow as 1-3/4" touchless
- Triggered by movement near the face of the actuator

### WIRELESS ACTUATORS:

#### Surface Mount

- 9V battery powered
- Stainless steel plate - 4-1/2" diameter
- Weather resistant

#### Bollard Mount

- 9V battery powered
- Stainless steel plate - 6" diameter
- Weather resistant

#### Handheld

- 9V battery powered

### WIRELESS RECEIVERS:

#### Handheld

- For use with wireless actuators

### SENSORS:

#### Motion Sensor

- Detects objects approaching or moving away from sensor

#### Sensor Remote Control

- Remotely adjusts settings on the motion and header sensor

#### Header Mount Sensor

- Infrared presence detector protects people on the swing side of the door

#### Door Mount Sensor

- Infrared presence detector protects people on the swing path of the door

### ACCESSORIES:

#### Bollard Post

- 42" x 4" x 6" aluminum post
- Can be configured as a wireless or hardwired actuator



## Pneumatic System Control Boxes



7982ES Shown

- **7901:** For use in a single door application or independent control of a single door in a multiple door system. Two door leaves can be operated if they are activated simultaneously. The single pneumatic circuit accepts 'normally open' (N.O.) inputs from hardwired or remote wireless actuator/receiver combinations. The 7901 control box requires a separate compressor. LCN recommends the 920 series.
- **7901ES:** Same as 7901 but includes electric strike relay.\*
- **7902:** For independent operation of two-door or four-door leaves if pairs are actuated simultaneously. Two independent pneumatic circuits accept N.O. inputs from hardwired or wireless actuator/receiver combinations. The 7902 control box requires a separate compressor. LCN recommends the 920 series.
- **7902ES:** Same as 7902 but includes electric strike relays.\*
- **7902SES:** Same as 7902 but includes electric strike relays and sequential card for operators to activate in sequence.
- **7981:** Self-contained control box/compressor combination for single door leaf applications. The single pneumatic circuit accepts N.O. inputs from hardwired or wireless actuator/receiver combinations. The 7981 does not require a separate compressor.
- **7981 ES:** Same as 7981 but includes electric strike relays.\*
- **7982:** Self-contained control box/compressor combination for independent or simultaneous operation of two door leaves. Two independent pneumatic circuits accept N.O. inputs from hardwired or wireless actuator/receiver combinations. The 7982 does not require a separate compressor.
- **7982ES:** Same as 7982 but includes electric strike relays.\*
- **7982SES:** Same as 7982 but includes electric strike relays and sequential card for operators to activate in sequence.\*
- **7949:** Auxiliary 'blow open' box works with or without 7901 or 7902 control box and one or two pneumatic automatic operators. Controlled by the smoke evacuation system, the 7949 opens a door or doors to allow fresh air into the building. Normal power operator functions are not available when 'blow open' function has been activated.
- **7949ES:** Same as 7949 but includes electric strike relay.\*

### ADDITIONAL FEATURES & BENEFITS

- Two-year warranty
- Auxiliary compressors available (920, 921, 922 and 923)

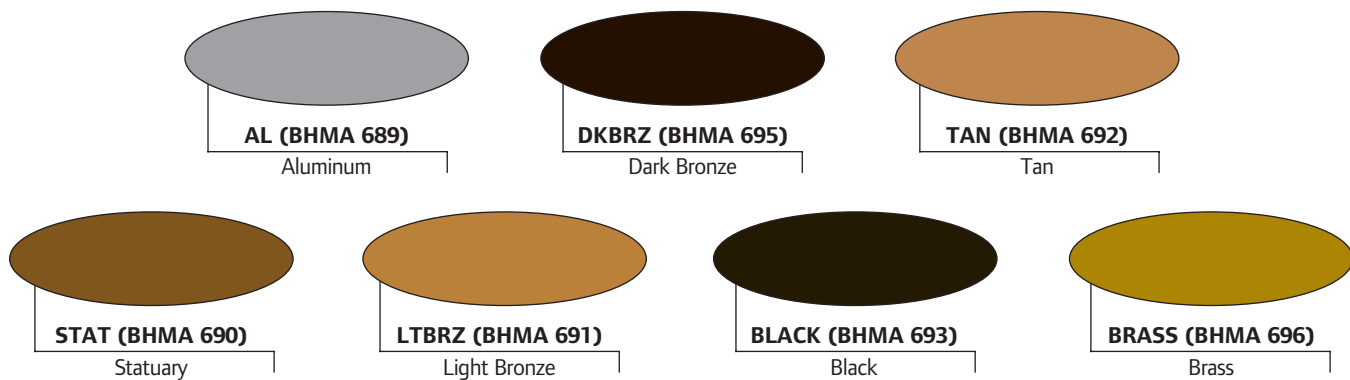
\* ES powered by others

## Powder Coated Finishes

LCN closers and automatic operators can be specified in seven standard finishes or over 180 custom powder coated finishes. Powder coating provides superior protection against the effects of weathering and provides a durable, chip-resistant finish. For information about custom finishes, plated finishes and a special rust inhibiting (SRI) process, see the LCN General Catalog or CD.

### STANDARD POWDER COATED FINISHES

Colors shown are approximate. See LCN General Catalog for exact colors.



### OPTIONAL SRI

When powder coated closers are installed in high humidity or potentially corrosive installations like swimming pools, water treatment facilities or near large bodies of water, specify LCN SRI Pretreatment. This optional process extends the corrosion protection offered by powder coat finishes.