



Door control without compromise.

Welcome to superior performance.

The doors that welcome customers, students, patrons and visitors are crucial aspects of the overall facility experience. High traffic zones, wherever they are in a building, rely on consistent and reliable door performance in the face of high use and abuse. If they fail, there are significant costs, from damaged goodwill to dangerous conditions.

The heart of the opening.

At the heart of an opening is the door closer. It not only protects the integrity of the opening, but also the safety and security of its users. It is the mechanical pulse of the facility, and maintaining closer performance in the face of high use and abuse is a constant concern of facility managers and owners.

LCN: In control of control.

High traffic environments are where LCN's portfolio of heavy-duty closers is setting the standard for exceptional performance. Not surprisingly, it all begins with what goes into them: premium materials that are engineered and manufactured to obsessively tight tolerances. What's more, LCN closers utilize several patented components and are assembled by hand in the United States.

The no-compromise zone.

In openings that are subject to high use and abuse, it's all important – fire and life safety, security, ADA access and design. There's little margin of error, so there's no room for compromise. So start here: LCN's portfolio of heavy-duty door closers for high use and abuse applications.

LCN stands for:

- Reliable performance
- Greatest value for ownership
- Protection for the entire opening
- Security and safety
- Better facility experience
- Peace of mind

Passion makes perfect. The LCN formula for success.



Cast Iron Cylinders

- Heavy duty cast iron is the strongest and most reliable cylinder material available
- Superior burst and yield strength
- Natural graphite lubricates parts, reducing wear
- Robust wear eliminates internal leaks
- Minimum porosity



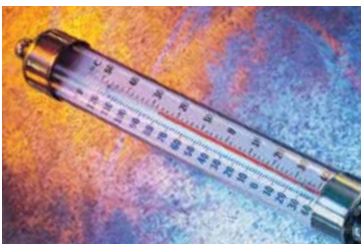
Heavy Duty Forged Steel Arms

- Arm performance significantly impacts door closer stability and control
- Most vulnerable part of a closer
- Forging process optimizes material strength
- Resists bending and breaks from abusive use and side loading
- Available in hold open and spring cushion applications
- Smooth appearance



Double Heat Treated Pinions/Full Compliment Bearings

- Double heat treated steel pinions reduce wear
- Wider pinion journal (11/16") provides a larger bearing load
- Higher abuse tolerance resisting damage to pinion and bearings
- Extremely hard needles and full compliment bearings provide more surface area, increasing bearing load and delivering maximum protection to the pinion shaft, eliminating wear and leaks



All-Weather Fluid

- Fluid is the "lifblood" of any hydraulic closer
- All-weather fluid keeps closer components working smoothly
- Significantly reduces the need for seasonal adjustments



Fast Power Adjust Dial

- A revolutionary visual indicator for spring power adjustments
- Simply turn the dial to the size you want
- Results in quick and accurate spring settings
- Door closers are easily adjusted and maintained for maximum door control



10 Million Cycles

- The ANSI/BHMA (A156.4) minimum industry standard only requires 1.5 million cycles
- Many high-use door openings could reach as many as 1.8 million cycles in one year
- LCN 4000 Series is certified to pass a 10 million-cycle test
- LCN 4000 Series closers perform 6.5 times more than the industry standard



Heavy-Duty Surface Closers

- Cast iron cylinder offers proven durability
- Big 1.5-inch cylinder bore provides maximum control in high use and high abuse conditions
- Exceeded 10 million cycles in testing
- Double heat treated steel pinion
- Meets ADA requirements
- UL Listed



Heavy-Duty Concealed Closers

- Designed for high traffic applications
- Available for hollow metal, aluminum or wood doors and frames
- Concealed in the frame
- Meets ADA requirements
- UL Listed



Heavy-Duty Automatic Operators

- Full line of operators designed specifically for any application
- Available surface mounted or concealed in various finishes
- Meets UL Listed requirements
- Meets ADA requirements



Heavy-Duty High Security Closers

- Designed for high traffic and high security areas
- Heavy-duty steel mounting plate minimizes tampering/vandalism
- Heavy-gauge metal security covers
- Utilizes TORX machine screws, minimizing tampering/vandalism
- Available surface mounted or concealed
- Meets ADA requirements
- UL Listed

4010/4020/4110/ 4010T/4020T/4110T Series



4110 EDA Shown

LCN's best performing heavy-duty closer designed for institutional and other rugged, high traffic applications.

FEATURES & BENEFITS

- Over 50 years of proven performance
- Exceeded 10 million cycles in independent testing
- Cast iron cylinder offers proven durability
- Forged steel main arm
- Double heat-treated steel pinion
- Handed for left- or right-swinging door
- FAST™ power adjust for accurate on-site spring power adjustment
- Fast and accurate installation
- Extra Duty Arm (EDA) standard on 4110
- 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, top jamb or parallel arm
- Size one cylinder meets ADA requirements on 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 adjustment

AVAILABLE OPTIONS

- Delay action for additional adjustable closing time
- Advanced Variable Backcheck allows earlier backcheck control on high-abuse installations (4110 Series only)
- 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 available

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
- 44% increase in load bearing capacity
- Strongest pinion ever at 3/4" diameter
- Widest bearing ever - 5/8"
- Stronger pinion teeth
- V-Shield™: advanced v-shield seals for extended life
- Cast iron construction
- Non-sized cylinder is adjustable for interior doors to 5'0" (1524mm) and exterior doors to 4'0" (1219mm)
- 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
- Forged steel arm
- Double heat-treated steel pinion
- All-weather fluid eliminates seasonal adjustments
- Non-handed design for installation flexibility
- Fast power adjust
- UL/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



= Complies with ADA Accessibility Guidelines

= Helps meet LEED certification

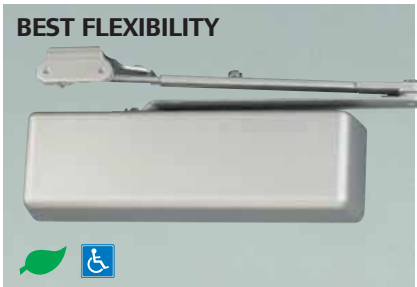
= Advanced V-Shield sealing technology

4000 Series

Surface Mounted Closers

4040/4040T Series

BEST FLEXIBILITY



P4040 Shown

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 (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

4030/4030T Series

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

4000T Series

PERFECT FOR HEALTHCARE AND HOSPITALITY



4000T Shown

The 4000T Series is LCN's heavy-duty track closer designed 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
- Wall pocket installation for fire/life safety in an aesthetically pleasing application – use SEM7850 wall magnet
- Uses modified 4040 cylinder which has passed 10 million cycles in independent testing
- Non-handed
- Sized cylinders for interior doors to 4'0" (1219mm)
- 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

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

The 1260 Series closer from LCN is the perfect mix of performance and durability. Its cast iron construction delivers unparalleled strength and longevity, and its versatile design means the 1260 works almost everywhere.

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")
- Advanced V-shield seals for extended life
- 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
- Quick-fix kit



= Complies with ADA Accessibility Guidelines



= Helps meet LEED certification



= Advanced V-Shield sealing technology

EXPERT TIP

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



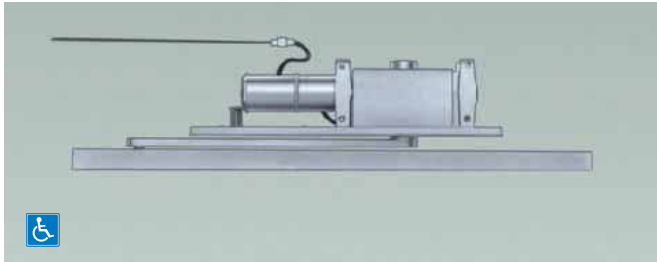
Whether you need assistance writing a complex specification or some good advice on what products work best for an opening, Ingersoll Rand Security and Safety Consultants can help. Our team of specification writers, end-user sales representatives and distribution sales representatives can answer your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

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

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 meets 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
- AVB - advanced backcheck provides hydraulic resistance earlier in the opening cycle



= Complies with ADA Accessibility Guidelines



= Helps meet LEED certification

Concealed Closers

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 meets 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 meets 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

2030/5030/6030 Series



6030 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

SEM 7800/SEM 1900 Magnets



SEM7830 + SEM1960 Shown

The Sentronic® SEM 7800 and SEM 1900 are a series of tri-voltage, 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.

CONFIGURATION

- SEM7820 - Floor mount magnet
- SEM7830 - Surface wall-mount magnet
- SEM7840 - Low profile, recessed wall-mount magnet
- SEM7850 - Standard profile, recessed wall-mount magnet
- SEM7870 - Dual-sided floor-mount magnet
- SEM1960 - Surface wall-mount magnet
- SEM1970 - Low-profile, recessed wall-mount magnet
- SEM1980 - Standard profile, recessed wall-mount magnet

FEATURES & BENEFITS

- Tri-voltage
- 35 lbs. holding force
- UL Listed for smoke barrier or labeled fire doors
- Die-cast (7800 Series) or high impact plastic (1900 Series) housing and armature
- Stick-on template for easy installation
- Installation placement chart for mounting location accuracy
- Shipped with a screw pack for attachment of the door mount
- Suitable for use in pocket door installations

AVAILABLE OPTIONS

- All SEM magnets are available in 12VDC, 24VAC/DV and 120VAC
- 7800 Series available in 7 standard powder coat finishes: aluminum, dark bronze, brass, black, light bronze, statuary bronze, tan
- 7800 Series can closely match unique door and frame finishes with custom powder coat finishes
- 1900 Series available in 2 standard powder coat finishes: aluminum, dark bronze

SEM 7860/SEM 7880 Magnets



SEM 7860 and SEM 7880 Shown

The Sentronic SEM7860 and SEM7880 are new additions to the SEM7800 Series magnets. These two are designed to satisfy unique applications.

CONFIGURATION

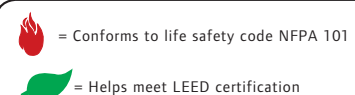
- SEM7860 - Flush wall-mount magnet
- SEM7880 - Hazardous application wall-mount magnet

FEATURES & BENEFITS

- Tri-Voltage (7860)
- 35 lbs. holding force
- UL Listed for smoke barrier or labeled fire doors
- Die-cast housing and armature
- Stick-on template for easy installation
- Installation placement chart for mounting location accuracy
- Shipped with a screw pack for attachment of the door mount
- SEM7880 utilizes seal-proof hardware to fully conceal input electricity from fire

AVAILABLE OPTIONS

- SEM7860: Tri-Voltage
- SEM7880: 24V only
- Available in 7 standard powder coat finishes: aluminum, dark bronze, brass, black, light bronze, statuary bronze, tan
- Can closely match unique door and frame finishes with custom powder coat finishes



Fire/Life Safety Solutions

SEM 7810 Magnet Armature Extension Kit



SEM 1960 Shown

This 75-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
- 5 - 2" extensions
- 20 - ball pivot
- 20 - connector links
- All armature extension kit components can be ordered separately

3130SE/4040SE Series Holder/Closers



4040SE Shown

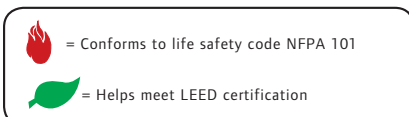
The 4040SE Sentronic is a heavy-duty, non-handed, non-sized closer/holder designed to provide single-point hold-open for fire and smoke barrier doors. The door is held open until electrical current interruption releases the holding mechanism and the door closes. The single lever (track) arm closer is 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 switchboard 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 in door (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

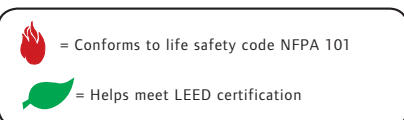
The 2310ME/4310ME/4410ME Sentronic is a heavy-duty, electrically controlled closer/holder designed to provide adjustable hold-open for fire and smoke barrier doors. Door is held open until current interruption releases mechanism and the door closes. Single lever (track) arm closer is specifically designed for interior doors. Choice of finishes, cylinder functions and installation accessories meets 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 pull side mount, push side 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 (85°, 140°)
- 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 meets 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 on the push or pull side
- 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

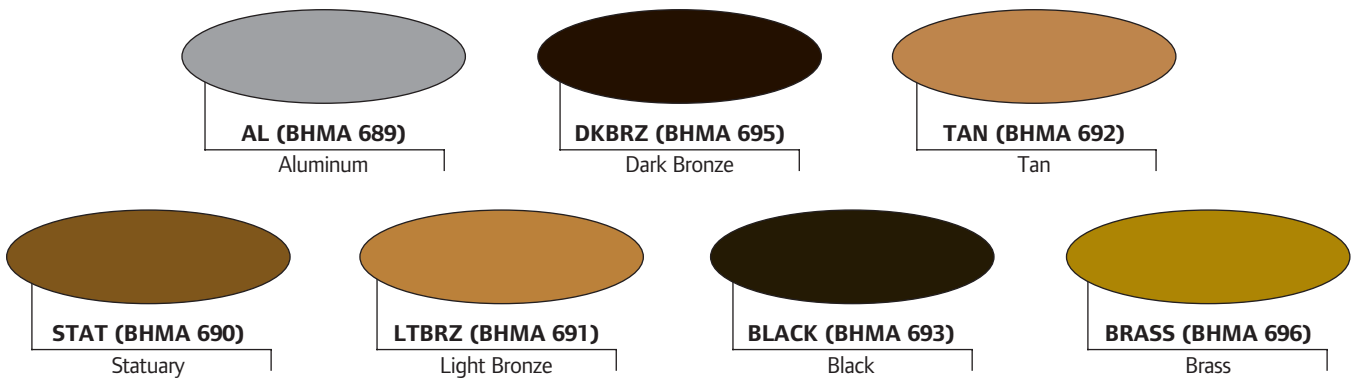
Finishes

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.

Door control without compromise.

Good business through goodwill.

The Americans with Disabilities Act (ADA) is a civil rights law, not a building code. Yet it has reshaped the entrances and doors in buildings across the country. In an effort to accommodate people with disabilities, buildings have become easier to enter for everyone, including those who just need a little help. The growing elderly population is benefitting, and the goodwill created by improving ADA access is significant.



The right thing.

The proactive approach to ADA accessibility is a sound business strategy. It's the right thing to do for many reasons:

- Positive, convenient customer experience
- Safe, secure and productive environment
- Increased traffic and revenue
- Reduced risk of negative publicity
- Litigation avoidance

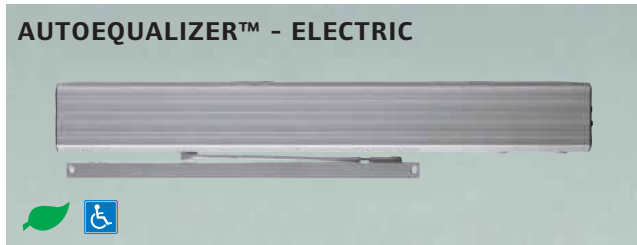
In the right way.

LCN has automatic operator solutions to meet the full array of ADA accessibility and door control needs, from low energy pneumatic to high-energy electric. What's more, they utilize several patented components and are all assembled by hand in the United States. LCN's comprehensive portfolio of solutions helps building owners bridge the gap between business objectives and ADA accessibility, without sacrificing the other needs related to high use and abuse, design, fire and life safety, and security.

Automatic Operators

4630/4640 Series

AUTOEQUALIZER™ - ELECTRIC



4630 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 may 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 to 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



= Complies with ADA Accessibility Guidelines



= Helps meet LEED certification

2610/4810/4820/4840 Series

AUTOEQUALIZER - PNEUMATIC



4810 Shown

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 may 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 XXX)
- 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

9500/9700/9300 Series



9540 Shown

The Swing Series is LCN's toughest line of automatic operators, designed specifically to handle applications where the primary use of the door will be automated. They are ideal for high-use, high-abuse applications and utilize an enclosed, electromechanical motor gearbox that has been tested up to 10 million cycles.

FEATURES & BENEFITS

- Electromechanical unit utilizes a digital control box for easy installation, programming and troubleshooting
- Power Boost feature provides extra energy assist during latch to help overcome external pressure conditions (not available in 9700 Series)
- Push 'n' Go option will activate door once manually opened to minimal degree
- On-board power supply provides 24V AC or 24V DC output with rectifier to power additional hardware
- Auto Reverse on opening and closing cycle provides additional safety when it encounters a person or obstruction
- Play-and-play connections allow for easy and more accurate installation
- Top jamb mounted and bottom load accessible to allow for maintenance or troubleshooting without removing cover
- Handed for right or left swing doors
- Meets all ANSI A156.19 requirements (9300 Astro Swing meets ANSI A156.10)
- Meets ADA requirements
- UL Listed

AVAILABLE OPTIONS

- 36" header length standard, but can request 30" to 49" max for single door
- Single control box can be used to automate a simultaneous pair of doors
 - Senior Swing 2800 Series
 - Middle Swing 2900 Series
 - Astro Swing 2500 Series
- Full length header for double doors available up to 98"
- Aluminum or Dark Bronze finish

9100 Series



9140 Shown

The Benchmark by LCN is an electromechanical low energy operator designed as an economical solution when door automation is desired. The Benchmark is designed for applications when the primary use of the door will be automated, and primarily for low to moderate traffic and abuse. It's also cost effective and the ideal product for retrofit applications.

FEATURES & BENEFITS

- Electromechanical unit utilizes a fully labeled control box for easy installation, programming and troubleshooting
- LED lights illuminate to show power to both unit and motor gear box to help assist with installation and troubleshooting
- Power Boost feature provides extra energy assist during latch to help overcome external pressure conditions
- Push 'n' Go option will active door once manually opened to minimal degree
- 90° power strain reduction on hinges, operator and other door hardware
- On-board power supply provides 24V DC output with rectifier to power additional hardware
- Auto Reverse on opening and closing cycle provides additional safety when it encounters a person or obstruction
- Top jamb mounted, non-handed unit allows for left- or right-swinging doors
- On/Off concealable switch comes standard
- Meets all ANSI A156.19 requirements
- Meets ADA requirements
- Meets UL requirements

AVAILABLE OPTIONS

- 36" header length standard, but can request 27" or 49" for full-length doors
- Aluminum or Dark Bronze finish



= Complies with ADA Accessibility Guidelines



= Helps meet LEED certification

Automatic Operator Accessories

8300 Series Actuators & Accessories



8310-856 shown

8310-854 shown

LCN offers a full line of actuators and accessories to meet almost any of your accessibility needs. All accessories are universal and can be used with any LCN automatic operator.

ACTUATORS

- Stainless steel aluminum push plates available with ADA logo or ADA text and logo
- Available in 4-3/4" square, and 4-1/2" or 6" round
- Jamb or double jamb vestibule switches
- Surface or flush mounting boxes with optional weather rings available for all style plates
- Can be hard wired or used with wireless transmitter
- Touchless surface-mount actuator for use with clean or sanitary applications

WIRELESS "READY MOUNT" ACTUATORS

- Available in 4-3/4" square or 6" round
- Comes complete with enclosed wireless transmitter, surface mount box, easy mounting bracket and push plate
- Waterproof for interior or exterior mounting
- Slim line 1-1/2" profile reduces interference from pedestrians or obstructions

WIRELESS TRANSMITTERS AND RECEIVER

- Transmitters available for push plate connection, or as 1- to 4-button handheld key fob
- Receiver's small profile can fit inside any LCN automatic operator head
- Receiver can program up to 100 individual transmitters

SENSORS

- Header mount activation sensor (if used for primary activation, must comply with ANSI 156.10)
- Header mount safety sensor
- Door mount safety sensor

BOLLARD POST

- 42" x 4" x 6" aluminum finish post
- Used with 4-3/4" square, 4-3/4" ready-mount or double-jamb actuator only
- Comes with shelf to hold wireless transmitter to increase frequency range

 = Complies with ADA Accessibility Guidelines

Pneumatic System Control Boxes



7982ES Shown

- **7901 Series:** 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 (recommended LCN 920 Series)
 - **7901ES:** Includes strike relay
- **7902 Series:** 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. Control box requires a separate compressor (recommended LCN 920 Series).
 - **7902ES:** Includes strike relay
 - **7902SES:** Includes strike relay and sequential card
- **7981 Series:** 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. Does not require separate compressor.
 - **7981ES:** Includes strike relay
- **7982 Series:** 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. Does not require separate compressor.
 - **7982ES:** Includes strike relay
 - **7982SES:** Includes strike relay and sequential card
- **7949 Series:** 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 clean air into the building during emergency conditions. Normal power operator functions are not available when "blow open" function has been activated.
 - **7949ES:** Includes electric strike relay

ADDITIONAL FEATURES & BENEFITS

- Two year warranty
- Auxiliary compressors available (920, 921, 922, 923)
- Electric strike must be powered with additional power supply

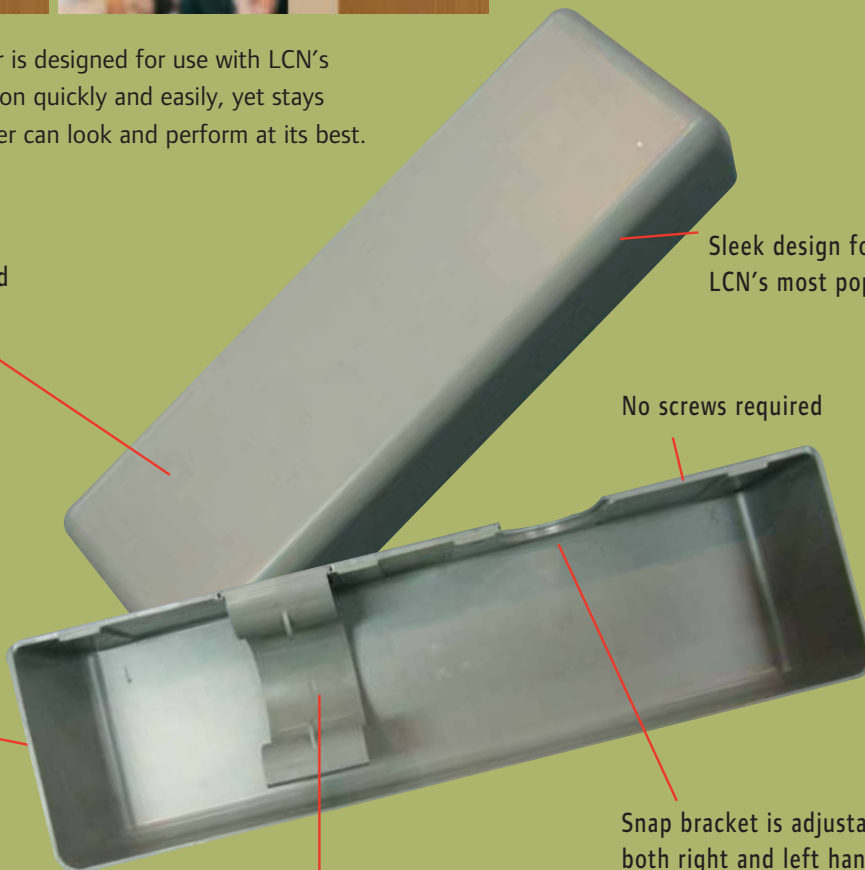
INTRODUCING THE EASY-TO-INSTALL COVER THAT WON'T LEAVE YOU EXPOSED.



The 4040 Snap-On Cover™

Closers without covers are at risk for vandalism, unauthorized adjustment, and compromised performance and security. They're also not very nice to look at. The new 4040 Snap-On Cover will keep your building looking its best, while protecting your closers from damage and reduced performance. And it can be installed in a snap.

The new 4040 Snap-on Cover is designed for use with LCN's most popular closer. It snaps on quickly and easily, yet stays securely in place so your closer can look and perform at its best.



Available in all standard LCN finishes

Sleek design for use with LCN's most popular closer

No screws required

Seamless construction ensures lasting durability

Snap bracket is adjustable to fit both right and left handed closers

Snap bracket ensures quick, easy installation (patent pending)



Superior door control hardware from the experts.

Known throughout the industry as the “overhead door holder specialists,” Glynn-Johnson has made its name with state-of-the-art manufacturing and technology. Our full line of push/pull latches are ideally suited to healthcare applications, and deliver consistent quality and exceptional performance. A variety of popular finishes and configurations gives you the flexibility you need to meet the most demanding door control applications.

Contents

Overhead Door Holders/Stops
Push/Pull Latches

SINGLE- OR DOUBLE-ACTING DOORS, INTERIOR/EXTERIOR APPLICATIONS, REVERSIBLE, NON-HANDED



410 Series

Concealed holders and stops offer the widest variety of functions and finishes to fit light- to medium-duty commercial applications.

FEATURES

- Broad range of finishes and sizes. Please consult your Ingersoll Rand representative for details.
- UL classified as miscellaneous fire door accessory. Applies to concealed overhead stops used in hollow metal fire doors.

FUNCTIONS

- **H-410H** hold-open models feature a rugged, automatic hold-open. The hold-open mechanism has been tested in excess of the 250,000 cycles required for a Grade 1 holder, providing an automatic, adjustable hold-open when the door reaches the templated degree of hold-open.
- **S-410S** stop-only models offer a smooth and rugged shock-absorbing mechanism designed to protect door and frame.
- **F-410F** friction hold-open models provide a convenient multi-point, hold-open mechanism, permitting the door to be held open at various degrees. The tension on the friction mechanism is adjustable.

OPTIONS

- Suffix SE - Stop-only model is furnished without shock absorber (for use with single point hold-open electronic closers).



100 Series

Concealed holders and stops provide the most attractive and reliable heavy-duty door control. Ideal for use on entrance and vestibule doors, high-traffic doors, large doors or doors subject to abuse.

FEATURES

- Low-profile channel, constructed of heavy-gauge brass material, mortised in door and concealed from view.
- Jamb bracket mortised in door frame, also concealed from view when door is in the closed position.
- Set in the inactive position, acts as a stop and shock absorber.
- Designed for heavy-duty applications; far exceeds BHMA cycle test and force test requirements for Grade 1 holders and stops.
- UL classified as miscellaneous fire door accessory (applies to concealed overhead stops used in hollow metal fire doors).
- Broad range of finishes and sizes; please consult your Ingersoll Rand representative for details.

FUNCTIONS

- **H-100H** hold-open model features the most reliable hold-open mechanism which is both selective and adjustable, featuring a control knob which turns the hold-open function on or off. The hold-open tension is a simple adjustment with an allen wrench.
- **S-100S** stop-only models provide rugged shock-absorbing ability, but are furnished without the hold-open mechanism.
- **F-100F** friction hold-open models provide a heavy-duty, multi-point, hold-open mechanism and adjustable tension, ideal for situations where various degrees of hold-open are required.

OPTIONS

- Suffix HP - Available on H Series hold-open models. Provides pre-set automatic hold-open built into the channel.
- Suffix ADJ - Adjustable jamb bracket (available on sizes 3, 4, 5 & 6) allows for manual setting of the degree of opening from 85 to 110 degrees.