

LCN®

4000 Series

Surface mounted closers



4110 Series



The 4110 is LCN's best performing heavy duty closer with an adjustable spring and possible hold open point beyond 140 degrees, meeting ADA requirements. Backed by a 30 year warranty, the cast iron body and all weather fluid offer versatility in high traffic applications.

Features

Certifications	Grade 1 - ANSI A156.4, UL 10C, ADA, 100 hour salt spray, meets BAA - Buy American Act
Body construction	- Cast iron body - Full complement bearing 1 1/2" diameter piston 1/16" diameter double heat treated pinion journal
Fluid	All weather fluid
Handing	Handed
Templating	Peel-n-Stick templates - 2 1/2" x 6" mounting hole pattern
Size	Adjustable spring size 1-5, or sized 6, includes patented green dial
Warranty	30 years

Cover	- Plastic Cover (PC), standard - Metal Cover (MC), optional
Fasteners	Self Reaming and Tapping Screws (SRT)
Mounting	Parallel arm (push side)
Arms	Extra-duty arm
Finishes/colors/ powder coat	689 Aluminum 690 Statuary bronze 691 Light bronze 693 Black 695 Dark bronze 696 Brass - Custom colors optional
	- Optional SRI primer - powder coat only - Optional plated finishes

Special templates

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

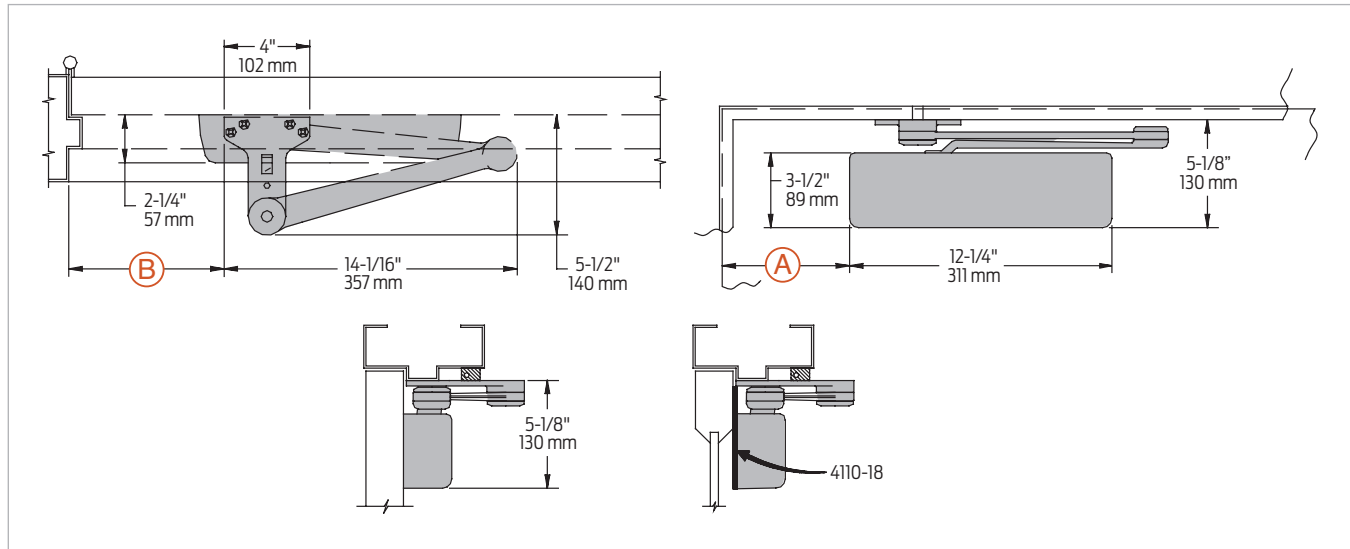
Mounting	Finish	Cover	Cylinder	Arm function*
Hinge (pull) side	Plastic	Non-handed	Regular (double)	180°
Top jamb (pull)	Metal	Non-sized	Standard (single)	180°
Top jamb (push)		Accessibility	Hold Open	110°
Parallel arm		Delay Action***	Fusible Link	110°
Stop face		CYLAVB**	EDA/HEDA	
Powder coat			CUSH/HCUSH	
Plated			SCUSH/SHCUSH	
			Double Egress	

- Available
■ Not available

♿ Closer available with less than 5.0 lbs. opening force on 36" door.
 * Maximum opening/hold open point with standard template.
 ** Advanced Variable Back Check.
 *** Delay feature incorporates standard 4040 cylinder (not XP).

Mounting details

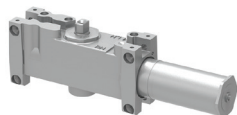
Parallel arm (push) side mounting



Butt hinges	Should not exceed 5" (127 mm) in width	
Auxiliary stop	Recommended at hold open point, where a door cannot swing 180°, or where Cush-n-Stop Arm is not used	
Clearance	EDA, or CUSH shoe is 5 1/2" (140 mm) from door face	
Top rail	- Less than 5 1/8" (130 mm) measured from stop requires plate, 4110-18 - Plate requires 2" (51 mm) minimum measured from the stop	
Stop width	Minimum 1" (25 mm)	
Head frame	Flush or rabbeted requires CUSH flush panel adapter, 4110-419	
Reveal	Less than 2 3/4" (70 mm), use CUSH shoe support, 4110-30 with CUSH arms	
Blade stop spacer	4110-61 required to clear 1/2" (13 mm) blade stop	
Cush arm	Requires CUSH shoe support, 4110-30 for fifth screw anchorage where reveal is less than 3 1/16" (78 mm)	
Delay action	- Add suffix "CYLDEL" to selected cylinder - Not available with 4116 cylinder; delays closing from maximum opening to approximately 70° - Delay time adjustable up to approximately 1 minute	
Advanced Variable Back Check	- Cylinder starts back check at approximately 45° instead of the normal 75° - Add suffix "CYLAVB" to selected cylinder	
Maximum opening	EDA or Fusible Link Arm can be templated for:	CUSH Arm can be templated for maximum opening at:
	100° A = 5 15/16" (151 mm) B = 7 1/4" (184 mm)	85° A = 8 5/16" (211 mm) B = 9 5/8" (244 mm)
	140° A = 4 7/16" (113 mm) B = 5 3/4" (146 mm)	90° A = 7 11/16" (195 mm) B = 9" (229 mm)
	or 180° A = 2 15/16" (75 mm) B = 2 15/16" (75 mm)	or 110° A = 5 9/16" (141 mm) B = 6 7/8" (175 mm)
	Hold open points up to maximum opening with HEDA or Fusible Link Arm	- Hold open point at maximum opening with HCUSH Arm - SCUSH hold open points are approximately 5° less than templated stop point

Accessories

Cylinders



4111(6)-3071
Cast iron cylinder assembly (CYL)

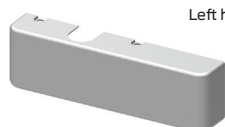
- Handed
- Standard

Covers



4110-72
Plastic Cover (PC)

- Non-handed
- Standard



Left hand shown

4110-72MC
Metal Cover (MC)

- Handed
- Required for plated finishes and custom powder coat finishes
- Optional

Arms



4110-3049EDA
Hold Open Arm (H)

- Handed
- Optional
- Provides hold open function, adjustable at shoe



4110-3049FL
Fusible Link Arm (FL)

- Handed
- Releases hold-open function adjustable at shoe when exposed to temperatures above 165° F
- Optional

Note: Check local codes before specifying FL arms.
NOT A life safety product!



4110-3077CNS
Cush-n-Stop Arm (CUSH)

- Non-handed
- Features solid forged steel main arm and forearm with built-in stop in soffit shoe



4110-3077EDA
Extra Duty Arm (EDA)

- Non-handed
- Features forged, solid steel main and forearm for potentially abusive installations



4110-3077EDA/62G
Extra Duty Arm (EDA)

- Non-handed
- Features forged, solid steel main and forearm for potentially abusive installations
- Optional 4110-62G thick hub shoe for blade stop clearance



4110-3049CNS
Hold Open Cush-n-Stop Arm (HCUSH)

- Non-handed
- Provides hold open function with templated stop/hold open points
- Handle controls hold open function



4110-3077SCNS
Spring Cush-n-Stop Arm (SCUSH)

- Non-handed
- For abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe
- Optional



4110-3049SCNS
Spring Hold open Cush-n-Stop Arm (SHCUSH)

- Non-handed
- For abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe
- Handle controls hold open function
- Optional

Installation accessories



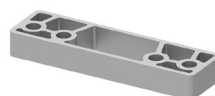
4110-18
Plate

- Required for push side mount where top rail is less than 5 1/8" (130 mm), measured from the stop
- Requires minimum 2" (51 mm) minimum top rail



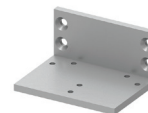
4110-30
CUSH shoe support

- Provides anchorage for fifth screw used with CUSH arm, where reveal is less than 3 1/16" (78 mm)



4110-61
Blade stop spacer

- Lowers parallel arm shoe to clear 1/2" (13 mm) blade stop



4110-419
PA flush panel adapter

- Provides horizontal mounting surface for CUSH shoe on single rabbetted or flush frame

Ordering information

How-to-order 4110 Series closers

1. Select cylinder size

- ☐ 4111 (adjustable from size 1 to 5)
- ☐ 4116 (CYLDEL, SHCUSH or HCUSH arm not available)

2. Specify hand

- ☐ Right Hand (RH)
- ☐ Left Hand (LH)

3. Select finish

- ☐ Standard powder coat _____
- Aluminum (689), Dark Bronze (695), Statuary Bronze (690), Light Bronze (691), Black (693), or Brass (696).

Closer will be shipped with:

- Standard cylinder
- Standard cover
- Extra duty arm
- Self reaming and tapping screws (unless options listed below are selected)

Closer options

Cylinder

- ☐ Delay Action Cylinder (CYLDEL) (not available with 4116)
- ☐ Advanced Variable Back Check (CYLAVB)

Cover

- ☐ Metal Cover (MC)

Finish

- ☐ Custom powder coat (RAL) _____ (handed metal cover required)
- ☐ Plated finish, US _____ (handed metal cover required)
- ☐ SRI primer (use with powder coat finishes only)

Arm

- ☐ Extra Duty Arm (EDA)

- ☐ Extra Duty Arm with 62G Thick Hub Shoe (EDAW62G)
- ☐ Hold Open Extra Duty Arm (HEDA)
- ☐ Fusible Link Arm (FL)
- ☐ Cush-n-Stop Arm (CUSH)
- ☐ Hold Open Cush-n-Stop Arm (HCUSH) (N/A with 4116 cylinder)
- ☐ Spring Cush-n-Stop Arm (SCUSH)
- ☐ Spring Hold Open Cush-n-Stop Arm (SHCUSH) (N/A with 4116 cylinder)

Optional screw packs

- ☐ Through Bolt¹ Self Reaming and Tapping Screws (TBSRT)

- ☐ Wood and machine screws (WMS)
- ☐ Through Bolt¹ Wood and Machine Screws (TBWMS)
- ☐ Torx Machine Screws (TORX)
- ☐ Through Bolt¹ and Torx Machine Screws (TBTRX)

Installation accessories

- ☐ Plate, 4110-18
- ☐ CUSH shoe support, 4110-30
- ☐ Blade stop spacer, 4110-61
- ☐ PA flush panel adapter, 4110-419

Special template

- ☐ ST- _____

1. Specify door thickness if other than 1 3/4".

Table of sizes

- Select closer based on width of door
- The spring power of non-sized 4111 cylinder is adjustable from size 1 through size 5 and is shipped set to size 3
- Sized 4116 series cylinders 6
- Delay action not available with 4116 cylinder
- HCUSH and SHCUSH arm not available with 4116 cylinder

Exterior (and vestibule) door width

	28" 711mm	30" 762mm	36" 914mm	42" 1067mm	48" 1219mm
	size 3	size 4	size 5	size 6	
*4111	Minimum door width				
4116					

Interior door width

	28" 711mm	34" 864mm	38" 965mm	48" 1219mm	54" 1372mm	60" 1524mm
	size 2	size 3	size 4	size 5	size 6	
*4111	Minimum door width					
4116						

→ Indicates recommended range of door width for closer size.
* Adjustable Size 1 thru 5.

Reduced opening force 4110 Series closers

CAUTION! Any manual door closer, including those certified by BHMA to conform to ANSI Standard A156.4, that is selected, installed and adjusted based on ADA or other reduced opening force requirements may not provide sufficient power to reliably close and latch a door.

Refer to Automatic Operators catalog for information on systems that meet reduced opening force requirements without effecting closing power.

	Door width	36"	42"	48"
	8.5* lbs.	4111	4111	4111
	5.0* lbs.	4111	4111	4111

* Maximum opening force.