

4630 Series Auto Equalizer

Features

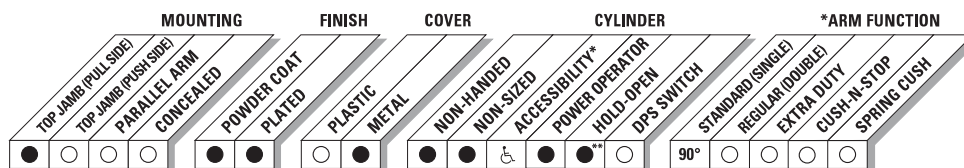


The 4630 AUTO EQUALIZER™ is LCN's SMART & RELIABLE electrically powered low-energy power operator. It provides easy access for people with disabilities, or the elderly. Designed primarily for manual opening applications that occasionally required automatic opening.

Certifications	Grade 1 - ANSI A117.1, A156.19, UL 10C, UL 325/228, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act	Cover	Metal, standard
Body Construction	■ Cast Iron Body ■ Full Complement Bearing ■ 1-1/2" Diameter Piston ■ 3/4" Diameter Double Heat Treated Pinion Journal	Fasteners	Wood and machine screws
Fluid	All Weather Fluid	Mounting	Top jamb (Pull Side)
Handing	Non-Handed	Arms	Standard single lever arm and track
Size	Adjustable Spring Size 1-4	Finishes/Colors/ Powder Coat	■ Aluminum (689) ■ Statuary Bronze (690) ■ Light Bronze (691) ■ Black (693) ■ Dark Bronze (695) ■ Brass (696) ■ Custom colors optional ■ Optional SRI primer - powder coat only ■ Optional plated finishes*
Warranty	2 years		*End caps are black

Special Templates

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



● AVAILABLE
○ NOT AVAILABLE

♿ Meets ADA requirements (power mode).
* See individual series for maximum manual opening.
** Switch provided for continuous hold open (4630 only).

LCN Door Control Catalog

phone: 877-671-7011 ■ fax: 800-248-1460 ■ www.allegion.com/us ■ 009426 rev. 2/16

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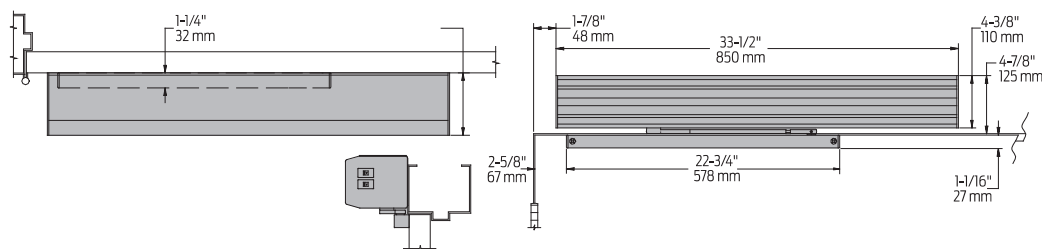
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4630 Series Auto Equalizer

Mounting details

Top Jamb (Pull Side) Mounting



Butt Hinges	Should not exceed 5" (127 mm) in width
Auxiliary Stop	Recommended
Reveal	Should not exceed 1/8" (3 mm)
Head Frame	Minimum 2" (51 mm)
Top Rail	Minimum 1-1/8" (29 mm)
Opening Time and Force	- Variable by adjustments to the electronic control module located on the operator assembly - Maximum hold open time adjustable up to approximately five minutes
System Diagram	See "AUTOMATIC OPERATORS" section pages 35 for typical system wiring and pages 37-38 for electrical data
Maximum Opening	- Templating allows 90° power opening and 170° manual opening - Please note that many track style door closers are capable of allowing 180° of door swing - Track style closers are at their weakest closing force at 180° - Consult factory for applications where exterior or large/heavy door must swing 180°

Notes:

- Actuators are sold separately, see pages 115-131
- Comes with a digital control box utilizing a 4040 heavy duty door closer with on-board diagnostics and power supply
- Has a factory default memory that include "No Destruct" drive system
- Guard rails or safety mats not required
- 4630 has easily accessible switches to provide on/off and continuous hold open functions
- CS options provides concealed on/off power switch
- Control module provides timing and sequential door functions, electric strike controls and adjustments for opening speed and force

4630 Series Auto Equalizer

Accessories

Cylinders



4631-3971
Cast Iron Cylinder Assembly

- Non-handed
- Standard



4631-3071
Cast Iron Cylinder Assembly

- Non-handed
- Mounting plate
- Includes 4630-3454 Motor Clutch, 4630-3180 I/O Board Assembly and 4630-3462 Controller
- Standard



4631-3071CS
Cast Iron Cylinder Assembly

- Non-handed
- Mounting plate
- Includes 4630-3454 Motor Clutch, 4630-3180 I/O Board Assembly and 4630-3462 Controller
- Same as a 4630-3071 assembly except on/ off switch is concealed in endcap and no hold open switch is included (Separate key switches suggested)
- Standard

Cover



4630-72MC
Metal Cover

- Non-handed
- Standard

Track



4630-3038
Standard Track

- Non-handed
- Will not accept hold open clip or bumper assembly
- Standard

Arm



4630-3077T
Standard Arm

- Non-handed
- Track roller not included with arm

Installation Accessories



4630-3034
Track Roller

- Quiet low friction roller assembly
- Shoulder dimension "X" = 1/8" (3mm)

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Accessories

Installation Accessories



4630-334
Switch End Cap

- End cap (black powder coat finish only) with cut outs for installing on/off and hold open switches



4630-334-2
Blank End Cap

- Black powder coat only



4630-334CS
Switch End Cap

- End cap and switch (black powder coat only) for concealed switch option



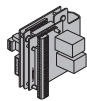
4630-3179-1
On/Off Switch Assembly

- Black rocker switch. Plugs into high voltage PC board



4630-3179-2
Hold Open Switch Assembly

- Black rocker switch
- Field wired to low voltage PC board



4630-3180
PC Board Assembly

- High and low voltage PC boards connected to mounting bracket



4630-3454
Motor/Clutch Assembly

- A geared assembly in an LCN power operator that incorporates a "no destruct" feature



4630-3462
Control Box Assembly

- Digital controller with built-in 12/24 VDC power supply
- Programming and timing functions are adjusted on controller



4630-3498-2
AC Power Cable

- 2 wire cable to connect 120 VAC from PC board assembly to controller



4630-3498-1
Ribbon Cable Connector

- 16 wire ribbon cable connecting 1-24 pin terminal connectors to controller

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Ordering Information

How-to-order 4630 Series closers

Specify finish

- ☐ Standard Powder Coat _____
Aluminum, Dark Bronze, Statuary, Light Bronze, Black, Brass

Closer options

Cylinder Assembly

- ☐ CS (concealed on/off switch)
(separate key switches suggested)

Finishes

- ☐ Custom Powder Coat (RAL) _____
☐ Plated Finish, US _____

Screw pack

- ☐ TB*, Wood & Machine Screw (TBWMS)
☐ TORX Machine Screw (TORX)
☐ TB* & TORX Machine Screw (TBTRX)
*Specify door thickness if other than 1-3/4".

Special template

- ☐ ST- _____

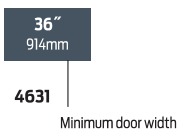
Closer will be shipped with:

- Standard cylinder
- Standard metal cover
- Standard arm
- Track roller
- Standard track
- Wood and machine screw pack
unless options listed below are selected

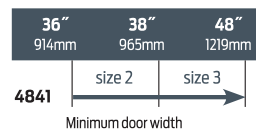
Table of sizes

- Non-Sized 4630 series cylinder is adjustable from size 1 through size 4 and is shipped set to size 3
- Closing power of 4630 Series closers may be increased 50%

Exterior (and Vestibule) door width



Interior door width



NOTE: Minimum door width 36" (914 mm).

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allegion.com

Submittal Review

Specification Section: 087100 Door Hardware

Date: 11/10/2016

Project: Webster University - ISB
Webster, MO

Firm: Cannon Design
Attn: Kelvin Patel
1100 Clark Ave
St. Louis, MO 63102
(314) 425-8756

Kelvin,

I have reviewed this submittal for the door hardware per specification section 087100. This review is for specification compliance based on the specifications submitted to you for the above referenced project. I did not review for doors and frames and nor did I respond to any questions or comments regarding doors and frames. The Contractor remains responsible for the accuracy and completeness of submittal including, but not limited to, dimensions, quantities, fabrication, and construction techniques. General Conditions of contract documents apply.

You will need to review the door and frame submittal for compliance based on your plans, door schedule, and door/frame elevations. If any changes were made through addenda or RFI please update my comments appropriately.

Submittal Action:

Door Hardware Submittal dated 10/31/16 -

Reviewed / Reviewed As Noted

Submittal Notes/Comments:

- Revise all closers to 4010/4110 DEL series per email revision
- Provide Exit Devices with NL-OP trim where specified versus the submitted NL trim

Door Hardware Submittal—

Note: The general comments are listed to save time for repetitious items, comments, and/or concerns. The specific comments listed for individual headings are subject to the general comments listed below.

1. General:
 - a. I did not review submittal for handing.
 - b. Operational Description: Operational Description, of openings with electrified hardware, needs to be included in the door hardware schedule. [Reference Section 087100, Article 1.3.C.3.]

Please remind the contractor to coordinate the hardware being supplied by the Aluminum Door supplier with the hardware from this package. The hardware for aluminum doors is specified in Section 087100. This submittal references aluminum hardware as “by others”. All the hardware is required to be of the same manufacturer and model and meet the requirements of Section 087100.

- ✓ Single Source Responsibility: Obtain each type of hardware (ie. latch and locksets, hinges, exit devices, closers, etc.) from a single manufacturer. [Reference Section 087100, Article 1.4.D.]

The door hardware specification includes some project controls to assist in a smooth project. Please remind the general contractor of the following specification items in Section 087100:

- ✓ Article 1.3.C.3.I.3. Riser and Wiring Diagram – Please advise hardware supplier to provide riser and (point-to-point) Wiring Diagrams per approved finish hardware schedule.
- ✓ Articles 1.3.D. and 2.6. Keying – Please advise the hardware supplier to schedule and complete the keying conference prior to ordering hardware to avoid issues with keying or lock functions.
- ✓ Articles 1.6. and 1.7. Coordination – Please advise general contractor to schedule pre-installation, installation coordination, and electrified hardware coordination conferences prior to installation of any finish hardware.

Also, put the following items on the check-list at project completion time:

- ✓ Article 3.1 Installation
- ✓ Articles 3.1.L and 3.2 Adjustment and Field Inspections

As a reminder the following services are available to you for this project:

- ✓ Provide product training to installers.
- ✓ Assist you with “Jobsite Inspection” and creation of a detailed punch-list.
- ✓ Provide product training to owner.

Please review and contact us at the above telephone number or via email at aaron.owens@allegion.com with any questions or if you need further assistance. Thank you for your time and allowing me to follow up on this project.

Sincerely,

Aaron Owens

<Aaron Owens>