Norton[®]

Series Low Energy Operator - LEO[™]

3



5700

Complies with A.D.A. Accessibility Guidelines

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An ASSA ABLOY Group company



CONTENTS

Norton's 5700 Series introduces a new generation of power door operators. Door operators were once considered a necessity only for those with physical challenges. Today, due to the population's busy lifestyles, the convenience of "hands-free" door opening is more popular than ever. The patented design of LEO[™] is based on ease and simplicity. LEO installs in minutes rather than hours and consists of three major components: inverter, motor and Norton's 1601 closer body.

What separates LEO from other operators is its ability to function as a standard door closer. When the door is opened manually, there is little resistance and the drive train and motor are not engaged. The 1601 closer, not the motor, controls the closing cycle. Since the door closer does not back-drive the motor during the closing cycle, there is no loss of closer efficiency. In the event of a power outage, the door can be manually opened and will close via the door closer's spring force.

LEO is listed with UL and ANSI/BHMA A156.19 and meets the requirements of ADA and A156.4. LEO is ideal for doctors' offices, retirement facilities, schools, churches and any other locations where extra features are not required and noise may be a concern. LEO can be activated via wall switch, radio frequency device or motion sensor, and is available for push or pull side applications.



Based on its dual functionality, ease of use and quiet operation, LEO offers the customer a unique choice!

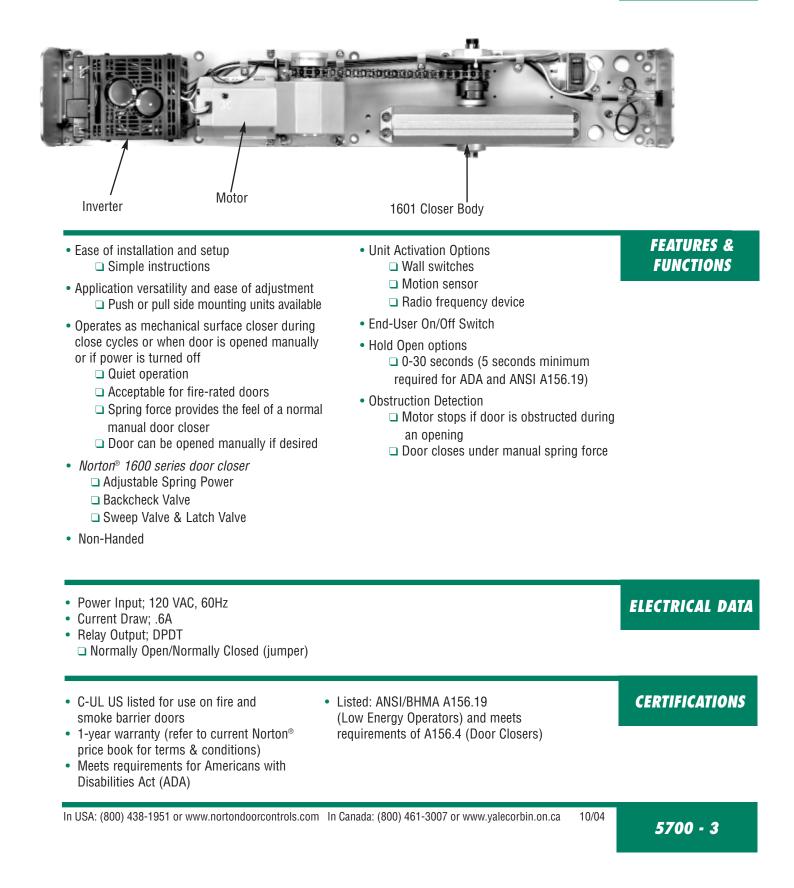
PATENT

Patent 5,881,497Additional patent pending

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OVERVIEW





STANDARD APPLICATIONS

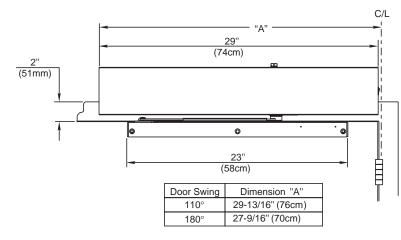


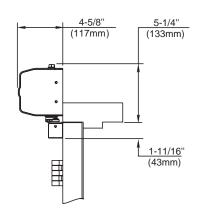
5710 HINGE (PULL) SIDE OF DOOR • Adjustable Stop

• 180° swing (trim permitting)

Minimum Door width Single Door - 29" (74cm) Double Door - 30" (33cm)

An auxiliary stop is suggested where severe conditions exist.



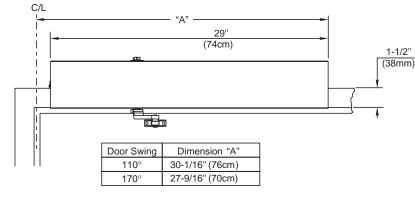


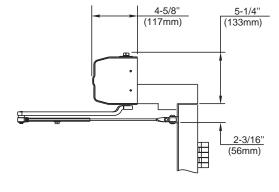


5730 STOP (PUSH) SIDE OF DOOR

STANDARD DUTY DOUBLE LEVER ARM

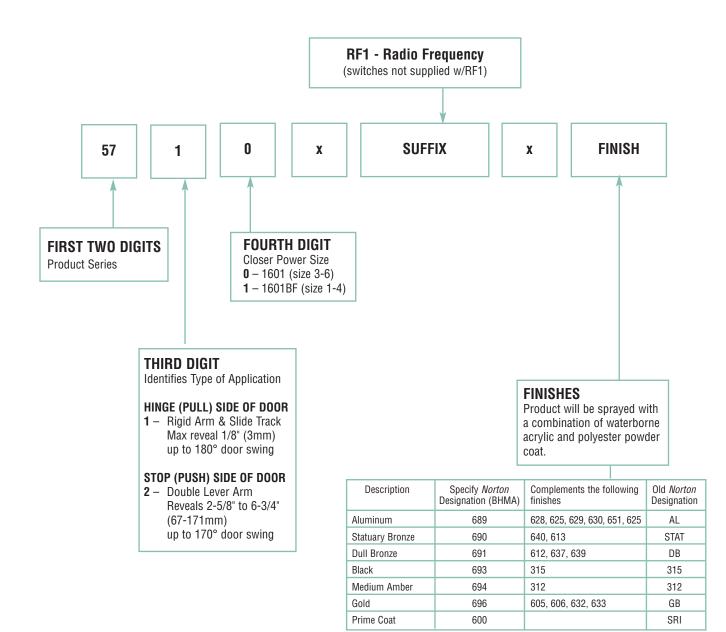
- Frame reveals 2-5/8" to 6-3/4" (67-171mm)
- An auxiliary door stop is required for these applications.
- 170° swing (trim permitting)





NOTE: Contact factory for use on doors exceeding 250 lbs.

HOW TO ORDER



* Special rust inhibitor (Beige) available at extra cost. Closers can be ordered prime coated only, i.e. (SRI) or prime coated with finish, i.e. SRI x 690. Finishes other than those listed above may be available on special order. Sample chips will be required.

Note: Door switches and sensors are not included with the 5700 Series Door Operators. These items must be ordered separately.

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SIGNAGE

Supplied Standard



ACCESSORIES



Motion Sensor #663



Door Switch 685



Door Switch 574

- Unidirectional · Black cover
- SPDT relay
- · Adjustable angle pattern
- 24 VDC input
- Must not be placed where motion of door can be sensed.
- 6" x 6" face plate
- 15amp @ 125 VAC
- · Hard wired
- · Flush or surface mounted
- SS with blue letters
- 6" x 6" face plate
- 15amp @ 125 VAC
- RF (433MHz)
- · Flush or surface mounted
- · SS with blue letters



429 (1 per switch)

Key FOB 572



Door Switch







433 (1 per switch)

• Hard wired · Flush or surface mounted

• 15amp @ 125 VAC

• 6" x 6" face plate

· SS with blue letters

· Used with RF1 and

571KIT

- 6" x 6" face plate
- 15amp @ 125 VAC
- RF (433MHz)
- · Flush or surface mounted
- · SS with blue letters

Door Switch 576

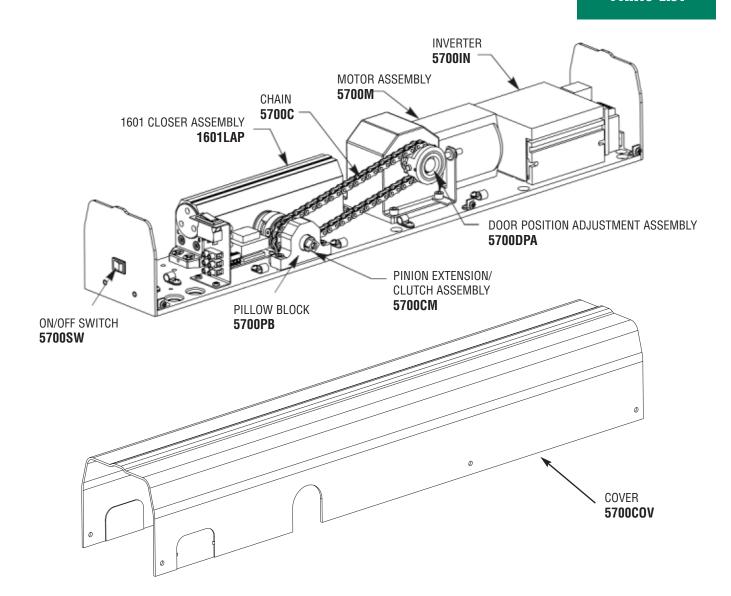


- Radio Frequency Receiver (433 MHz)
- 24 VDC power supply
- · Activation switches not included.
- Order 572, 574 or 576 separately.
- **Radio Frequency Kit** 571KIT

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Arm and Track Assemblies



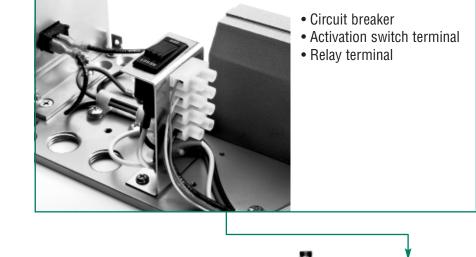
#5710-1 - Arm and Track Assembly **#7701ST-1A** - Arm Assembly **#7200-1T** - Track Assembly

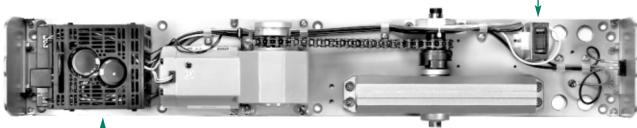


#7701-1 - Arm Assembly #7701-1W - Main Arm & Rod #7701-11A - Adjusting Tube & Shoe



TECHNICAL DETAILS







POT	DESCRIPTION
CL	Obstruction Detection on Open
MAX	Door Open Speed
MIN	Motor Reversing Speed
DEC/B	Hold OpenTime (5-30 Seconds)
ACC	Door Mounting (Factory Set)
COMP	Motor Torque at Hold Open Position

* To be adjusted with trimpot tool supplied with unit

ARCHITECTURAL SPECIFICATIONS

General Specifications

Door Controls (interior) (exterior) swinging door(s) shall be of rack and pinion design contained within a precision cast aluminum housing. Door closing force shall be adjustable to insure adequate closing control. Door closing speed shall be controlled by independent hydraulic adjustment valves in the sweep and latch range of the closing cycle. Door Operator shall provide conventional door closer opening forces unless the power operator motor is activated. Door Operator shall provide conventional door closing forces at all times except in the even of power outage during powered door open cycle. Door Operator opening force and speed shall be adjustable by independent electronic adjustment to ensure adequate opening control per accessibly codes. Door Operator shall have an adjustable hydraulic backcheck valve to cushion the door speed if door is opened violently. Door Operator shall have a manual adjustment to locate both full open and door full closed positions. Maximum door open shall be adjustable and capable to a maximum 180° conditions permitting. [(Door Operator shall be AUTOMATICALLY ACTIVATED, i.e. motion sensor.) (Door Operator shall be SELECTIVELY ACTIVATED by external initiating device, i.e. wall switch etc.) (Door Operator shall be both AUTOMATICALLY ACTIVATED and SELECTIVELY ACTIVATED.)] Door operator shall have adjustable hold open time capability in range of 5 to 30 seconds. Door operator shall have input line rating of 120VAC, .6A. Units shall have relay contact for interfacing products having a rating of 30VDC at 1A or 125VAC at .5A. Unit shall have an external On/Off Switch to defeat powered opening when desired. Unit shall have an internal circuit breaker switch to interrupt input power for servicing. Unit shall be U.L. Listed for automatic closing door. Unit shall be in compliance with the requirements of the Americans With Disabilities Act (ADA) and ANSI standards A117.1 and A156.19. Unit shall meet C-UL US.

Additional Detailed Specifications:

When activated, the unit shall, by means of an integral motor and chain drive, power open the door open at both a speed and force that are adjustable to meet accessibly codes. The door shall be powered from a door closed position to a full door open position and remain in momentary hold open for ____seconds (adjustable 0 to 30 seconds) [(Unit shall power open door to full open position up to 180°, conditions permitting.) (Unit shall be capable of opening door manually from 0 to 180°, conditions permitting.)] Once unit reaches full hold open position, if reinitiated, unit's momentary hold open time shall restart from the initialy set hold open time. If unit is initiated during the closing cycle, unit shall revert to opening cycle beginning at that door position. Obstruction detection on open shall neutralize and reverse motor action reverting motor to closed position thus allowing door to close under closer spring force only. This obstruction detection feature shall be integral to unit. During closing cycle, the unit shall close door under spring power not to exceed a closing force of 15 lbf.



NOTES



NOTES



For a complete listing of products and applications please visit our web site. www.nortondoorcontrols.com www.yalecorbin.on.ca

Or contact us at:

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