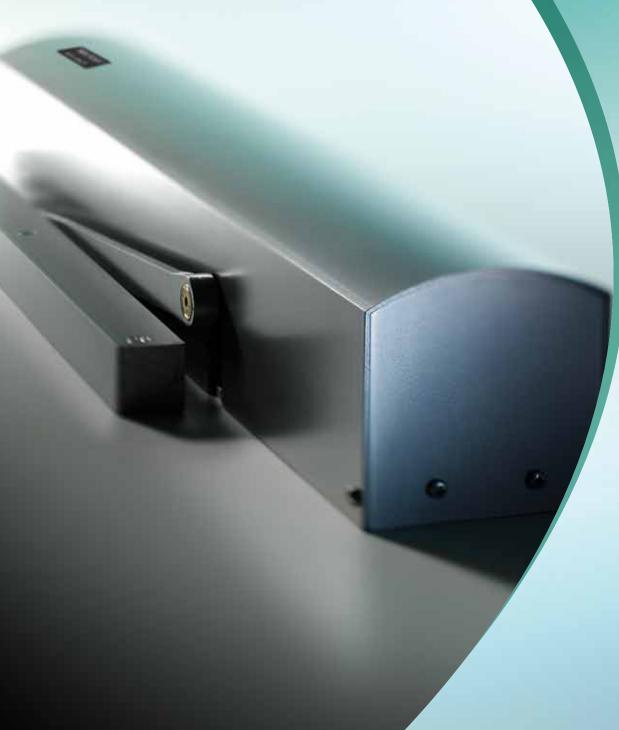
5900 SERIES

Low Energy Power Operator



Norton[®] ASSA ABLOY

ASSA ABLOY, the global leader in door opening solutions



INTRODUCTION

The Norton 5900 Series is a full-featured, extremely quiet, low energy door operator designed for moderate to high traffic doors. This cost-effective operator is available for either push- or pull-side mounting and is ideal for any application designed to meet the Americans with Disabilities Act (A.D.A).

The 5900 is simple to install and set up. "One touch" programming combined with the operators built-in ability to calibrate door mass, offers our customers a smart, dependable solution. Power Assist, Obstruction Detection, Motor Start Delay and Stop on Stall are just a few features that set this electromechanical operator apart from the competition.

Ideal for senior housing/assisted living facilities, hospitals, office buildings, colleges or universities, places of worship, convention centers, etc.



FEATURES

- Ease of installation and setup
- Simple instructions
- "One touch" programming
- Application versatility and ease of adjustment
- Non-handed units
- Push- or pull-side mounting
- Interfaces with electric hardware
- Integrates with access control system

- Operation startup options
- Wall switches
- Motion sensor
- Radio frequency device
- Push and Go
- Presence Detector input
- Sync cable for double doors; synchronizes closing of two operators

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5900 SERIES LOW ENERGY POWER OPERATOR



FUNCTIONS

- Power Assist
- When unit is activated, it allows the door to be opened manually with a force less than 5 lbs.
- Push and Go (selectable)
- As the door is manually opened, the operator "senses" movement and opens door to the full-open position.
- Obstruction Detection
 - Open
 - Door closes if it hits an obstruction while opening
- Close (Stop on Stall)
 - Door will stop once it hits an obstruction and rest against the obstruction until obstruction is removed

- Motor Startup Delay
- Delays operator opening
- Infinite Hold Open
- Door will hold open at set position until power is turned off
- Power Latch (selectable)
- Increases latch power
- Selector mode switch (3 position)
- Off Disables signal inputs
- On Activates signal inputs
- Hold Open Activates the unit to the hold open position

FIECTRICAL DATA

- Power input 120 VAC, 60 Hz (+10%, -15%)
- Current draw .75A
- 12VDC @ .5A output, 24VDC @ .25A output, 24VDC @ .4A output

Note: Dry relay contacts require optional relay logic module.

CERTIFICATIONS

- UL325 certified
- UL10c certified
- 2-year warranty (refer to current price list, terms and conditions)
- Americans with Disabilities Act (ADA)
- ANSI/BHMA A156.19 certified BHMA*



SPECIFICATIONS

Door Control (interior) (exterior) closing force shall be adjustable to ensure adequate closing control. Door Operator shall simulate conventional door closer opening and closing forces unless the power operator motor is activated. Door Operator shall have electronic backcheck to cushion the door speed if door is opened violently. [(Door Operator shall be AUTOMATICALLY ACTIVATED by either a slight push or pull in the direction of opening swing - Push and Go.) (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.)] Unit shall have delay switches for motor activation, electric lock interfacing, and hold open time. Units shall interface with latch retraction exit devices or similar products and have 12VDC @ .5A, 24VDC @ .25A, 24VDC @ .4A output for connection of electric strike, lock, radio frequency receiver, etc. Unit shall have a three-position Selector Mode Switch that will permit the unit to be switched "ON" to monitor for function inputs, switch to "H/O" for infinite hold open function or switched "OFF" which will disable function inputs allowing unit to be used as a manual door closer. Unit shall be U.L. Listed for automatic closing door. The Unit shall be adjustable to provide compliance with the requirements of the Americans with Disabilities Act (ADA). Unit shall be certified by BHMA to meet A156.19 requirements. Unit shall meet UL325, UL10C standards.



APPLICATIONS



Left hand shown

5910 HINGE (PULL) SIDE OF DOOR 5910 RIGID ARM AND SLIDE TRACK

- Buffered stop assembly in slide track
- 85° to 110° templated door openings in 5° increments
- 1/8" (3mm) maximum frame reveal

An auxiliary stop is suggested where severe conditions exist.



Left hand shown

5930 STOP (PUSH) SIDE OF DOOR STANDARD-DUTY DOUBLE LEVER ARM

- Frame reveals 2-3/4" to 5-3/4" (70 to 146mm)
- An auxiliary door stop is required for these applications

Dimensional Information:

- Minimum ceiling clearance: 5-5/8" (143mm)
- Minimum door width: 32" (81cm); maximum 48" (122cm)
- Minimum frame face: 2" (5mm)Minimum top rail: 1-5/8" (41mm)

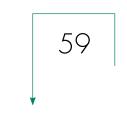
Notes:

- For additional information, the 5900 Series Instruction Manual is available online.
- Contact factory if door weight exceeds 200 lbs.

HOW TO ORDER

(121mm)

Note: All transmitters (door switches or key fob) must be ordered separately.



FIRST TWO DIGITS

Product Series

offset pivots

THIRD DIGIT

Identifies Type of Application

3

HINGE (PULL) SIDE OF DOOR*

- 1 Rigid Arm & Slide Track110° maximum door swingmaximum reveal 1/8" (3mm)
- 5 Double Egress Arm
 110° maximum door swing with 1/8"
 (3mm) reveal; 95° maximum door swing with 3" (76mm) reveal.

STOP (PUSH) SIDE OF DOOR

3 – Standard-Duty Double Lever Arm 110° maximum door swing Reveals 2-3/4" to 5-3/4" (70 to 146mm)



For Radio Frequency Control, order 539 RF Receiver separately.

FINISHES

Product will be sprayed with a combination of waterborne acrylic and polyester powder coat.

Description	Specify Norton Designation (BHMA)	Complements the following finishes	Old Designation
Aluminum	689	628, 625, 629, 630, 651, 652	AL
Statuary Bronze	690	640, 613	STAT

Department when door is hung on

*Consult Technical Support

LOW ENERGY POWER OPERATOR



OPERATIONAL SIGNS

#679 Operational Signs

(kit contains 8 signs) Packed with 5900



#425 (1 per)



#426 (1 per)



#427 (2 pe

#682 Signage Kit







#433 (1 per switch)

Sign Dimensions:

Square: 6" x 6" Round: 6-1/2" x 6-1/2"



#430 (1 per)





#431 (1 per) #428 (2 per)

#681 Signage Kit





#424 (1 per switch) #429 (1 per switch)

ACCESSORIES

Motion Sensor #663*



- 4-3/4" x 3-3/16" x 2" projection
- Unidirectional
- Black cover
- SPDT relay
- Adjustable angle pattern
- 24 VDC input
- Must not be placed where motion of door can be sensed

Executive Package (includes receiver and transmitter) #5900EXPKG





Relay Logic Module #5900RLM^



Switch Post



- $4" \times 6" \times 40" \times 3/16"$ wall thickness
- 9 volt battery
- RF temperature range: -4° F to 122° F
- 689 (aluminum) or 690 (dark bronze) finishes; specify when ordering
- Standard formed plastic cap
- Surface mounted (above ground)
- 530 radio frequency transmitter
- 500 hard wired switch
- 530POST post only; switch not included

500 & 530

^{*} Use of motion sensor must be approved by local authority having jurisdiction.

[^]Provides auxilliary contacts for latch retraction (exit devices). Consult Norton Technical Product Support.



ACCESSORIES

Activating Door Switches







- 4-1/2" W. x 4-1/2" H.
- 15 amp @ 125 VAC
- Flush mounted hard wired
- Fits single or 2 gang electrical box
- 501 Stainless steel with black letters
- 502 Blue powder coat with white letters
- Specify #542 to order surface mount box for 501 or 502 switch





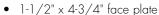
505, 531 507, 532



506, 533 534, 535

- 6" W. x 6" H.
- 9 volt battery
- 15 amp @ 125VAC
- Flush mounted
- Stainless steel with blue letters
- 531, 532, 533 and 535 radio frequency (433MHz). Used with RF option and 539. Surface mount boxes are included.
- 507, 505, 506 and 534 hard wired*. Surface mount boxes are not included. If required, specify: 555 - 6" square surface mount box 557 - 6" round surface mount box
- Switches may also be installed with single or double gang electrical box using fasteners included.





SPDT UL listed switch-mom.

- 15 amp @ 125 VAC
- Fits 1-3/4" frame
- Stainless steel with blue letters

503

Vestibule Switches



- 5" W. x 4-3/4" H.
- 2 SPDT UL listed switches-mom.
- 15 amp @ 125 VAC
- Fits 2-gang electrical box
- Stainless steel with blue letters

Low Profile Push Plate



- 36" x 6" activation zone
- 1" low profile depth
- Stainless steel face plate
- Adapts to either wireless or hardwired installations
- 638 Wireless
- 639 Hardwired

Touch Less Wall Switch



697

- Single gang and double gang
- Doppler radar
- Sensor requires movement for
- Variable relay-hold time from 1 to 10 seconds
- Range of 2" to 24" field adjustable
- 2-3/4" (Single); 4-1/2" (Double) $W \times 4-1/2" H$

Presence Detector



585

- Diffused active infrared technology
- 11.8" | x 1.9" h x 1.9" w
- Black anodized aluminum
- 9'x0" maximum mounting height
- Supply voltage: 24VAC/DC

All hard wired switches are Momentary Contact SPDT, UL Listed. Optional DPDT switches are available; suffix "D" to model number.



ACCESSORIES

Switch Post



500 & 530

- 4" x 6" x 40" x 3/16" wall thickness
- 9 volt battery
- RF temperature range: -4° F to 122° F
- 689 (aluminum) or 690 (dark bronze) finishes; specify when ordering
- Standard formed plastic cap
- Surface mounted (above ground)
- 530 radio frequency transmitter
- 500 hard wired switch
- 530POST post only; switch not included

5900DAP - Drop Angle Plate



Radio Frequency Receiver



539

• 433 MHz

Transmitters



536

- 2-3/8"w x 4-3/16"h x 15/16"d
- Single channel



538

- 2-3/8"w x 4-3/16"h x 15-16"d
- Double channel



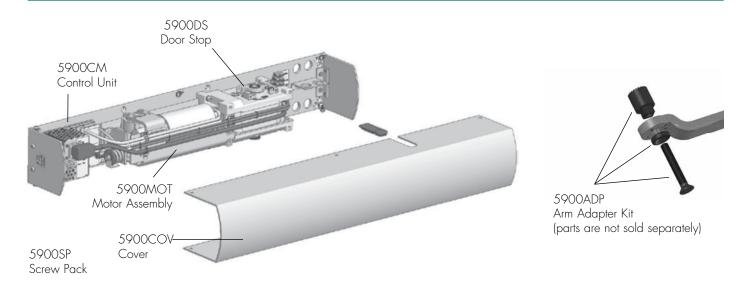
548

- Converts existing hard wired push plates to work with RF receivers offered after June 2013
- Single channel
- 9 volt

548



PARTS LIST



Arm and Track Assemblies



#6610-1 – Arm and Track Assembly #7210-1A – Arm Assembly #7200-1T – Track Assembly



#6630-1 — Arm Assembly #6630-1W — Main Arm & Rod #6620-12 — Adjusting Tube & Shoe



5900CAB

Sync Cable

#6650-1L – Arm and Track Assembly (LH) #6650-1R – Arm and Track Assembly (RH) #7250-1L – Arm Assembly (LH) #7250-1R – Arm Assembly (RH) #6610-1T – Track Assembly

5900 SERIES LOW ENERGY POWER OPERATOR



NOTES





CONTACT US AT:

Norton Door Controls 3000 Highway 74 East Monroe, NC 28112 Tel: 877-974-2255 Fax: 800-338-0965

ABLOY Door Security Solutions Canada 160 Four Valley Drive

Vaughan, Ontario, L4K 4T9 Canada

Tel: 800-461-3007 Fax: 905-738-2478

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

www.assaabloy.ca

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