Regenerative power door operator
for moderate to high traffic applications

5800
SERIES *ADAEZ*®

LOW ENERGY OPERATOR

CATALOG

Norton®
ASSA ABLOY

ASSA ABLOY, the global leader
in door opening solutions

INTRODUCTION

As one of the world's only regenerative power door operators, Norton's 5800 Series ADAEZ is certified by GreenCircle® to reduce energy consumption by as much as 100 percent versus other comparable operators. Available in wireless and plug-in versions and able to fit in the tightest of spaces, the 5800 ADAEZ is simple to install and use.
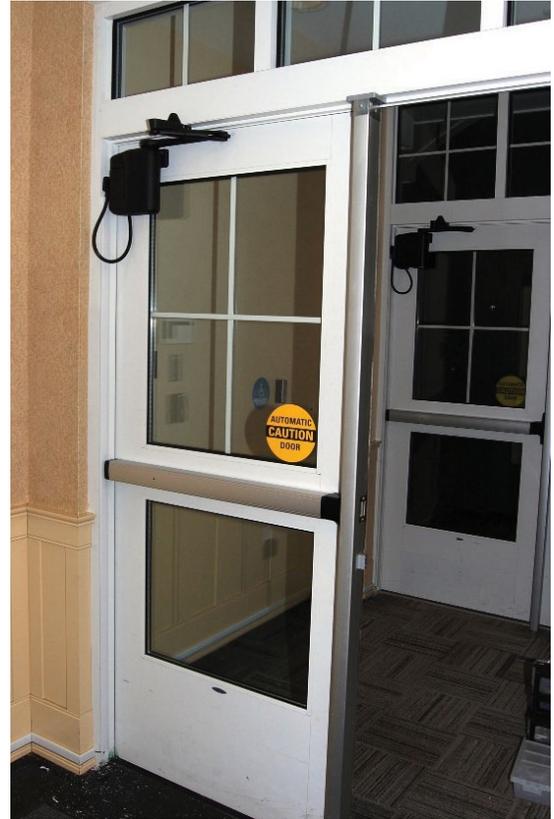
TABLE OF CONTENTS

ADAEZ PRO: MODELS 5831 (PUSH), 5811 (PULL)

» No electrical power required
» Moderate to high traffic, manual opening applications that occasionally require automatic operation
» Regenerative Drive System charges an onboard battery pack
» The PRO model excels in applications where the traffic pattern allows for 80 door cycles per day, 25% of which are automatic and 75% of which are manual. The PRO requires no electrical connection, no permit, no inspection, no wiring, and no low voltage license. It installs like a manual door closer in less than 1 hour.

ADAEZ PRO PLUS: MODELS 5833 (PUSH), 5813 (PULL)

» 24VDC powered - continuous automatic use
» Connects to ANY 24VDC power supply
» Commercial applications requiring push-and-go, power close and electric lock interface
» Ideal for openings requiring continuous automatic use or automatic use more than 25% of the time

ADAEZ PRO COMPLETE: MODEL 5845 (PUSH AND PULL)

» Bundles all the configurations of the ADAEZ PRO and ADAEZ PRO PLUS models into one easy to stock package
» Right or left hand doors
» Push and pull side mounting hardware
» Black and aluminum finish covers
» Mounting hardware for virtually any door and frame
» 24VDC plug-in transformer kit for continuous automatic use applications

FEATURES

» Regenerative drive or continuous duty operation
» Non-handed
» 5° door opening
» Push and pull side mounting
» Push-and-Go (ADA1015P Kit must be connected)
» Power Close (ADA1015P Kit must be connected)
» Radio Frequency stainless steel push buttons
» Integral RF receiver
» Shock absorbing arm
» 693T (black) and 689 (aluminum) covers
» 24VDC input port
» ADA1015P hardware kit
» Built-in ON/OFF Switch
» Auxiliary activation input port
» Maximum door width - 48"
» Maximum door weight - 250 lbs
» Patented Auto-Tune feature ensures safety and compliance with A156.19 code
» 2 year limited warranty

CERTIFICATIONS

» ANSI/BHMA A156.19 certified
» ETL tested to UL/cUL standard for automatic doors on fire & smoke barrier doors
» Complies with requirements for Americans with Disabilities Act (ADA)
» UL10c 90-minute positive pressure fire rating
» Manufactured in an ISO 9001 and ISO 14001 certified facility
» Verified by GreenCircle to offer these energy savings as compared to similar products:
  › 5800 Series ADAEZ® (plug-in) – 91% efficiency
  › 5800 Series ADAEZ® (wireless) – 100% efficiency

HOW IT WORKS

How does the 5800 Series ADAEZ PRO work without electrical power?

The 5800 Series ADAEZ PRO is an extreme duty, low energy door opener designed for moderate to high traffic manual opening applications that occasionally requires powered operation. A regenerative drive system charges an onboard battery pack eliminating the need for electrical power.

The 5800 Series ADAEZ PRO should be applied to doors using our 80/25 guideline. Apply 5800 Series ADAEZ PRO to a door that gets approximately 80 manual cycles or more per day and is used 25% or less automatically.

When applied using the 80/25 guideline the this operator will self generate all the power it needs to keep its field

replaceable, onboard, battery pack charged for up to 12 years and in some cases longer.

A fully charged battery has the capability to open a door up to 2000 times in a row, generously allowing for periodic fluctuations from 80/25 guidelines with little impact on the product's overall usability. Example: 30% automatic use for one day is not a problem, as long as that level of automatic use is not sustained.

The 5800 ADAEZ PRO can be used outside of the 80/25 parameters. Simply plug the unit into a common 110 VAC electrical outlet using our ADA1015P Hardwire Kit option. The Hardwire Kit is a low voltage plug in transformer and can be added to existing installed field units.

APPLICATIONS

PUSH SIDE MOUNTING WITHOUT ELECTRICAL POWER

PUSH SIDE MOUNTING WITH ADA1015P HARDWIRE KIT

PULL SIDE MOUNTING WITHOUT ELECTRICAL POWER

PULL SIDE MOUNTING WITH ADA1015P HARDWIRE KIT

5800 SERIES ADAEZ®
LOW ENERGY OPERATOR

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SPECIFICATIONS

AUTOMATIC DOOR OPENER

» Provide low energy automatic door operator complying with requirements of ANSI A156.19.

» Provide an operator with adjustable opening and closing forces that meet the provisions of ANSI A117.1 and the Americans with Disabilities Act.

» Provide an operator with a regenerative drive system which charges the on-board battery pack when unit is operated manually and which requires no external electrical power.

» Provide an operator that can connect to ANY 24VDC power supply to keep an on-board battery pack fully charged eliminating the need for manual traffic charging. When used with 24VDC input the operator shall supply up to 2000 automatic operations upon loss of building power.

» Provide an operator which has been verified by GreenCircle to offer these energy savings as compared to similar products:

» 5800 Series ADAEZ (plug-in) – 91% efficiency

» 5800 Series ADAEZ (wireless) – 100% efficiency

» Provide an operator which, upon installation, will determine door size and weight and automatically tune controller to operate within ANSI A156.19 and A117.1 standards. Operator shall also have the following adjustable functions:
  › Opening/closing speed
  › Hold-open time
  › Close check
  › Opening/closing force

» Provide operator with on-board diagnostics which will continually maintain control of door speed in wind or abusive environment conditions.

» Provide operator that will continue closing door within ANSI A156.19 and 117.1 requirements without any external power supplied. Upon meeting an obstruction during the opening cycle the door shall remain under power for one second and then close under spring force; if the door meets an obstruction during closing, the door will maintain a closing force of 8 lbs or less.

» Provide unit capable of operating doors up to 48" wide, weighing up to 250 lbs.

» Provide unit that will operate in climates with temperatures above -40° F and has a two year warranty.

» Provide operator with two stainless steel, jamb mounted, push button transmitters in choice of 1-3/4" x 4-3/4" narrow, 4-1/2" x 4-1/2" square styles, or 5 1/4" x 5 1/4" wave-to-open switch style, with required signage. Locate push buttons as directed by architect and within ANSI A156.19 and 117.1 guidelines.

» Provide operator which utilizes a triangular hardened steel output shaft to connect arm with a two piece tapered coupling for superior slip resistance.

» Provide operator and push button transmitter with circuit boards that have been specially coated to resist moisture and humidity making the electronics weather resistant.

» Provide operator with integral heavy duty cast aluminum shock absorbing arm, which when fully extended is in full tension eliminating the need for an auxiliary door stop.

» Provide operator with two architecturally finished covers and black powder coated frame, arms and mounting brackets.
  › Black (BHMA 693T)
  › Aluminum (BHMA 689)

» Provide an operator incorporating "Push and Go" feature to allow door movement to activate door open cycle or recycle door (PRO PLUS only).

» Provide an operator incorporating "Power Close" feature to utilize the motor to close a door help open by wind, stack pressure or latchbolt (PRO PLUS only).

KITS
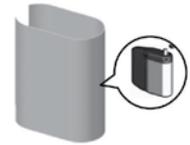
ADAEZ PRO – MODELS 5831 x NPB (Push), 5811 x NPB (Pull)

OPTION:

+
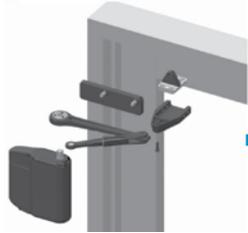
Narrow Style Push Buttons With Wireless (RF) Transmitters

OR

Operator
Non-Handed Shown Push Side Mounting Parallel Arm

Square Style Push Buttons With Wireless (RF) Transmitters

Aluminum Dress Cover
Replaces Standard Black Cover Operator Frame/Arm Always Black Finish

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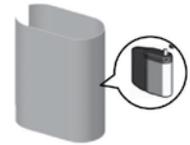### ADAEZ PRO PLUS – MODELS 5833 x SQPB (Push), 5813 x SQPB (Pull)

OPTION:

+

+

OR

1015P Hardwire Kit: 24VDC
Transformer

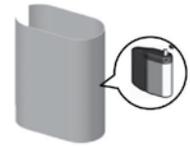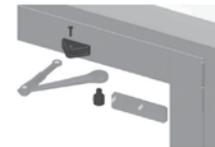### ADAEZ PRO COMPLETE – MODELS 5845 x NPB (Push & Pull), 5845 x SQPB (Push & Pull), 5845 x WTO (Push & Pull)

+

OR

+

+

PULL Mounting Hardware Pull Side Mounting – Regular Arm

+

OR

Wave-to-Open Switch

SPECIFICATIONS

WIRELESS INTERFACE MODULE (ADA1028W)

System Description:

The Wireless Interface Module allows the 5800 door operator to interface to 5800 wired or wireless push buttons, wireless remote, an electric lock, fire panel, access control, and an outside push button disable contact. The ADAEZ WIM can be used with any 5800 ADAEZ model PRO, PLUS, PRO COMPLETE.

Mounting:

The WIM (4.25"W x 5.75" H) is designed to fit inside a power supply cabinet, using a supplied plastic mounting plate with double sided tape and fasteners.

Inputs:

» Power input: 24VDC
» Hardwire push buttons input: separate INSIDE and an OUTSIDE activation input
» Wireless push button input: separate INSIDE and an OUTSIDE RF activation input
» Handheld transmitter input: (p/n ADA1031 HAND-HELD-TX) interface
» Operator connection cable: Plug in ADAEZ swing door cable connector interface
» Lock power: Dry contact SPDT to power an electric lock
» Outside push button disable: privacy feature

Outputs:

» Wireless Output: RF signal to activate ADAEZ door opener
» Output Contacts: SPDT dry contact output for AUX signal
» Lock Contacts: SPDT dry contact output for LOCK
» Access Control Contacts: indicates valid Unlock signal
» Signal Delay Timer: 1.5 second lock release delay
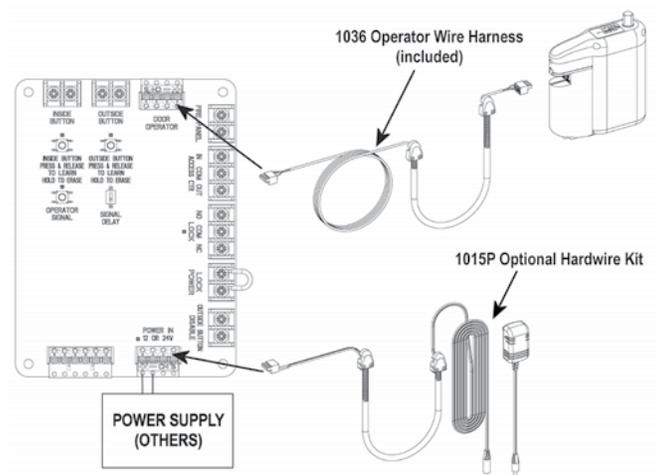» Emergency Interface Relay (EIR): disables signal inputs

Codes/Listings:

» UL
» FCC 47CFR 15C and RSS 210

TECHNICAL INFORMATION: WIRING DIAGRAMS

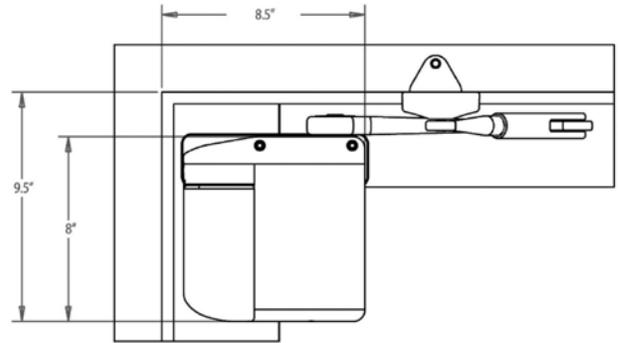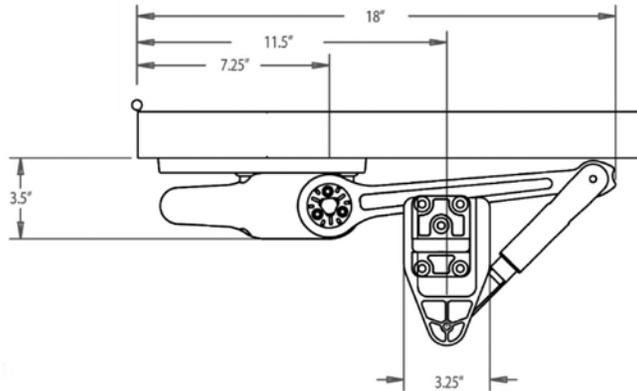### Electric Strike with RF or Wired Push Buttons and Card Reader (or other Access Control)
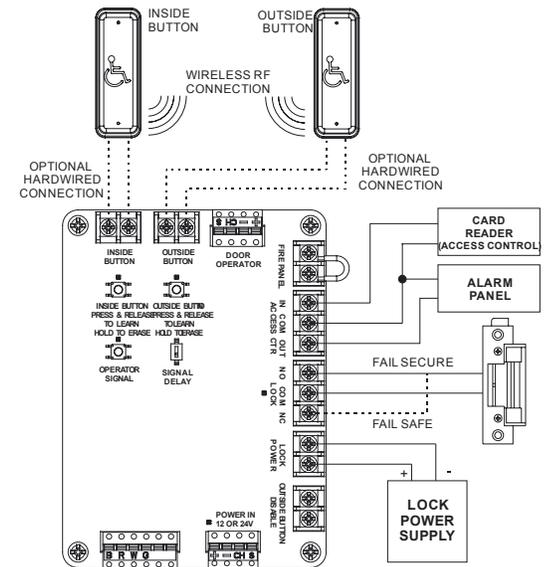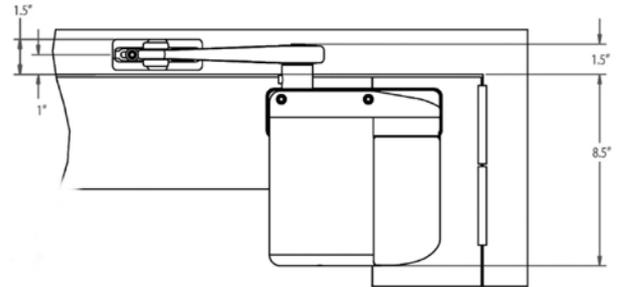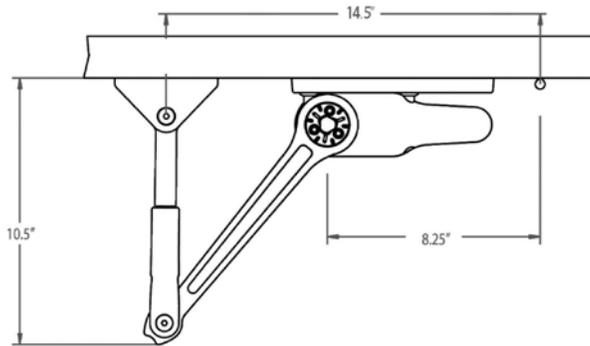

Wiring the WIM and Operator

PRODUCT DIMENSIONS
Push Side

Pull Side

All dimensions are approximate

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REPLACEMENT PARTS / ACCESSORIES / KITS

ADA1015P
(direct replc. of former 1015) transformer, armored dr cord, end links 50' of low voltage cable, power port cnt.

ADA1001
Door Arm Assembly

ADA1009
Mounting Hardware
Includes rivetnut installation toolkit

ADA1010NY
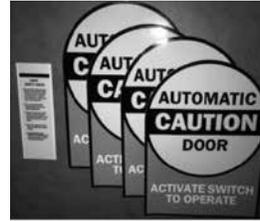ADAEZ Operator Body – NYC TRD without battery
ADA1010E
ADAEZ Operator Body – Europe without battery

ADA1007P
(direct replc. of former 1007) battery assembly – new part has on/off switch, LED indicator, power port

ADA1004
Operator Cover – Aluminum

ADA1002
Operator Cover – Black

ADA1014
Decal Pack

ADA1006
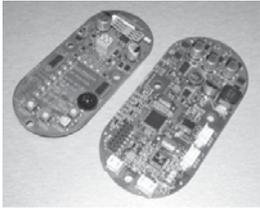Operator Mounting Bracket with covers

ADA1010P
(direct replacement of former 1010L/R) ADAEZ Operator Body for ADAEZ and ADAEZ PRO. Battery not included.

ADA1023
External battery charger kit
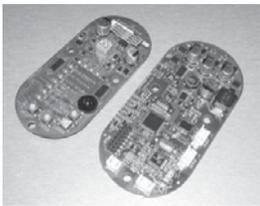
REPLACEMENT PARTS / ACCESSORIES / KITS

ADA1005
Electronic Control Kit for ADAEZ (older) Setup and PC Board

ADA1005E
Electronic Control Kit for ADAEZ Europe Setup and PC Board

ADA1005P
Electronic Control Kit for ADAEZ PRO Setup and PC Board

ADA1005NY
Electronic Control Kit for ADAEZ NYCTRD Setup and PC Board

ADA1026
Bottom Cover with Two Screws

ADA1025
Multi-Purpose Timer

ADA1022
Kit to Convert SPDT Switch to DPDT Switch

A1031
A1031 (order 1031E for Europe) Hand Held Remote Control

ADA1021
Kit to Convert to a PULL Side Mount

ADA1008
Wireless Push Button Transmitter (Circuit Board Only)

ADA1028W
Wireless Interface Module

ADA1012-1
1 3/4" (4.5 cm) Push Button Assembly without RF Transmitter

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REPLACEMENT PARTS / ACCESSORIES / KITS

ADA1019-1
4 1/2" (11.4 cm) Sq Push Button Assembly without RF Transmitter

ADA1012-2
1 3/4" Push Button Assembly with RF Transmitter

ADA1019-3
4 1/2" Sq Push Button Assembly with DPDT Switch without RF Transmitter
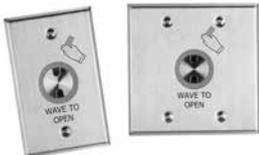
DA1019-2
4 1/2" Sq Push Button Assembly with RF Transmitter

ADA1024
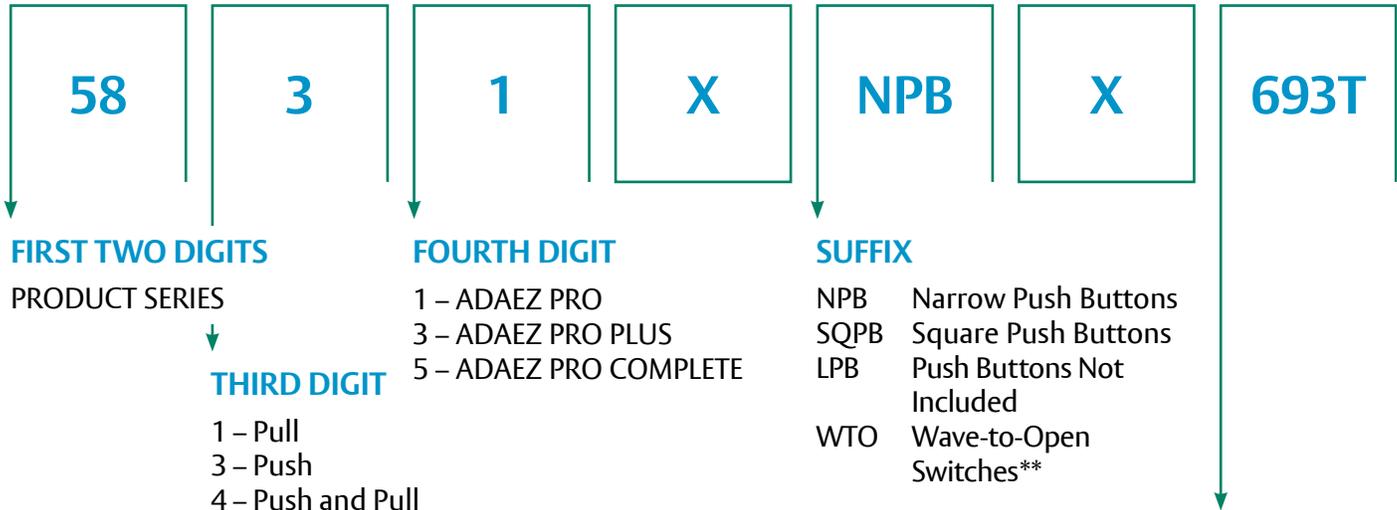Kit to Convert to a PUSH Side Mount

ADA1019-4
4 1/2" Sq Push Button Assembly with DPDT Switch with RF Transmitter

700
Wave-to-Open Switch

Single gang and double gang packaged together without RF transmitter
Dimensions:
3" W x 4-3/4" H (single);
4-1/2" W x 4-1/2" H (double)
(may require ADA1015P)

HOW TO ORDER

58	3	1	X	NPB	X	693T

FIRST TWO DIGITS
PRODUCT SERIES

THIRD DIGIT
1 – Pull
3 – Push
4 – Push and Pull

FOURTH DIGIT
1 – ADAEZ PRO
3 – ADAEZ PRO PLUS
5 – ADAEZ PRO COMPLETE

SUFFIX
NPB   Narrow Push Buttons
SQPB Square Push Buttons
LPB   Push Buttons Not Included
WTO   Wave-to-Open Switches**

Description	Specify Designation
Black Textured	693T
Aluminum	689

ADAEZ KITS	Model Number	Function		Description				
		PUSH	PULL	Narrow Style Buttons	Square Style Buttons	Wave-to-Open Switch	1015 Hardwire Kit: 24VDC	Aluminum Dress Cover
PRO	5831 x NPB	●		●				○
	5811 x NPB		●	●				○
PRO	5833 x SQPB	●			●			○
	5813 x SQPB		●		●			○
PRO PLUS	5833 x NPB	●		●			●	○
	5813 x NPB		●	●			●	○
PRO PLUS	5833 x SQPB	●			●		●	○
	5813 x SQPB		●		●		●	○
PRO COMPLETE	5845 x NPB*	●	●	●			●	●
	5845 x SQPB*	●	●		●		●	●
	5845 x WTO*	●	●			●	●	●

Note: *5845 is shipped 693T x 689 finish
       **Only available for ADAEZ PRO COMPLETE

○ – Optional parts
● – Standard parts

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ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience

Since 1880, Norton door controls have been an integral part of schools, hospitals and businesses around the globe. When you need products and people that perform at the highest level, rely on Norton – From Open to Close.

Norton Door Controls | www.nortondoorcontrols.com
3000 Highway 74 East | Monroe, NC 28112 | Tel: 1-877-974-2255 | Fax: 1-800-338-0965

ASSA ABLOY Door Security Solutions Canada | www.assaabloy.ca
160 Four Valley Drive | Vaughan, Ontario, L4K 4T9 Canada | Tel: 800-461-3007 | Fax: 1-905-738-2478