

# 7100SZ SERIES SAFEZONE®

Multi-Point Closer/Holder  
with Motion Sensor



**Norton®**  
**ASSA ABLOY**

ASSA ABLOY, the global leader  
in door opening solutions

INTRODUCTION

Designed with safety in mind, SafeZone® takes door closers to a higher level. SafeZone uses a multi-point, electromechanical closer and a programmable motion sensor. When the door is opened manually, SafeZone senses movement in the door opening and stops the door from closing. A physically disabled person in a wheelchair; an elderly person moving slowly; a child who stops to pick up a toy are all protected. When movement is no longer detected, the adjustable setting times out and the door closes.



SafeZone detects movement in both directions, allowing one person or a stream of people to travel through an opening, making it ideal for theaters, hospitals, doctor's offices and elementary schools.

**Features**

- Multi-point, electromechanical closer/holder
- Sensor detects movement in both directions
- Selectable hold open time and sensitivity
- Push or pull side mounting
- Handed units
- Spring sizes 3, 4 or 5 (models 7110SZ and 7150SZ); spring sizes 2, 3, 4 or 5 (models 7120SZ and 7130SZ)
- Fail safe operation
- Optional dual sensor

**Benefits**

- Energy savings realized by power engaging only when motion is detected
- Extends door life and minimizes wear and tear on hardware by limiting unnecessary cycles

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### PATENTS

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Patent Pending

### CERTIFICATIONS

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- Certified to meet ANSI/BHMA A156.15 Release Devices 
- UL / cUL listed for use on fire rated doors 
- UL10C listed for positive pressure fire test
- The following models comply with requirements for the Americans with Disabilities Act (A.D.A) and ANSI standard A117.1 
  - Push Side: 7122SZ, 7132SZ
  - Pull Side: 7113SZ, 7153SZ
- This product is manufactured in an ISO 9001 facility

### SPECIFICATIONS

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Manufacturer: Door closers for both interior and exterior openings are to be the product of a single source manufacturer.

Certifications: Closers to be certified ANSI/BHMA A156.15.

Electromechanical closer units to be a multi-point, closer/holder type with selective hold open positioning achieved by electronic solenoid locking of closer arm slide into the track assembly. Closer/holder units to have a maximum opening of 180° (hold open to 175°) and are fail safe to close the door in the event of electrical power interruption.

*SafeZone* Detection: Closer/holders units to have an integral sensor device monitoring a "zone of safety" at the door opening. *SafeZone* detection prevents the door from closing in the event of movement within the adjustable sensing field. Movement is detectable in both directions with selectable closer hold open time and sensor sensitivity.

Mechanical closer to be hydraulic type with full rack and pinion construction enclosed in a cast aluminum alloy shell. Internal hydraulic fluid is to be non-gumming and non-freezing. Include two non-critical valves to independently regulate sweep and latching speeds and an adjustable backcheck cushioning valve. All valves are adjustable by hex key. Provide spring power adjustment permitting a 50% increase in closing power over the minimum closing force for any closer size.

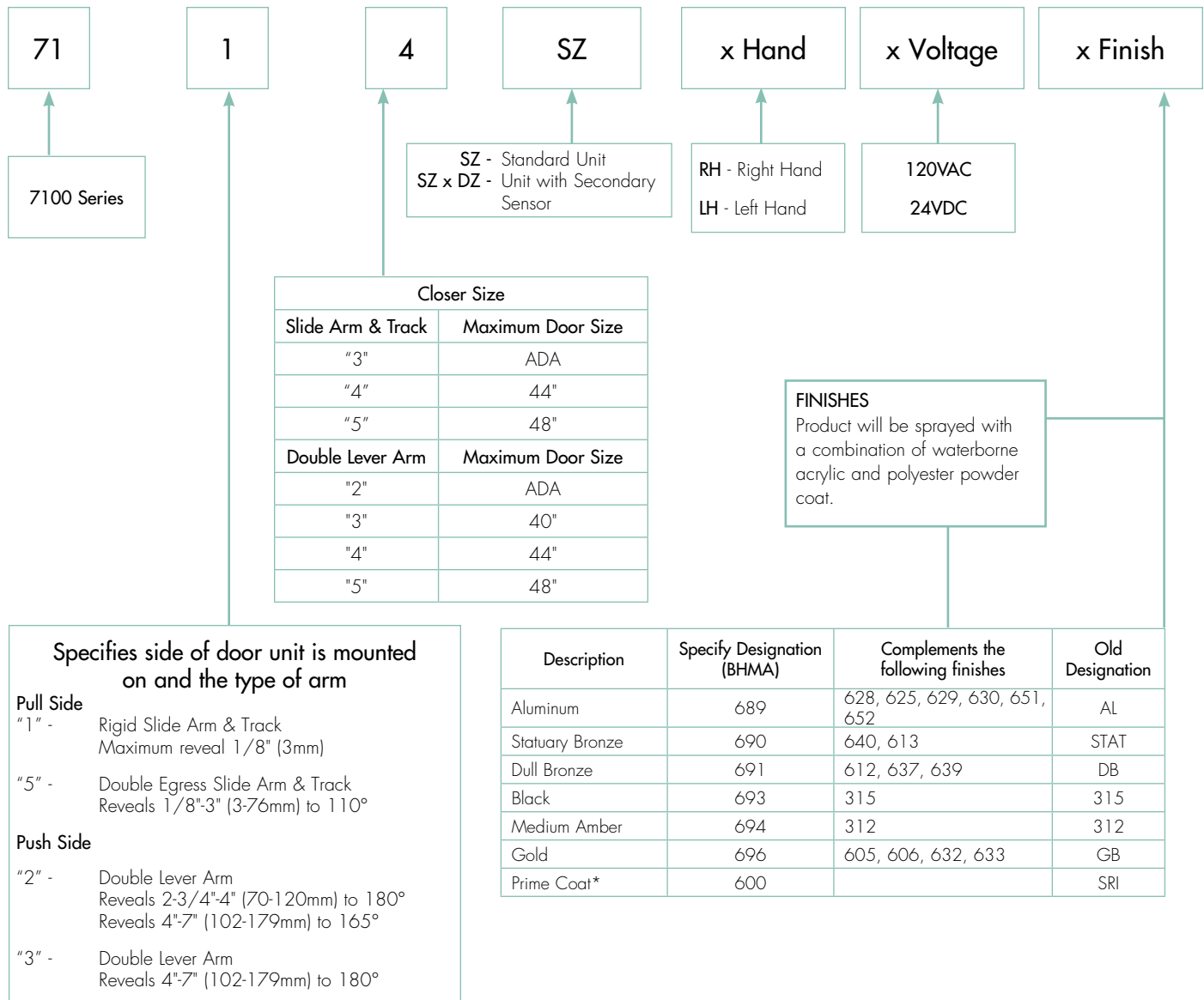
Mounting: Closer units can be surface mounted to the frame face for application on the pull (hinge side) side of door, or soffit mounted on the push side of the door frame with projection of no more than 2-5/8" (67mm) from the frame face. Frame face must be a minimum 2" and ceiling clearance a minimum of 4". Door must be hung on either butt hinges or 3/4" offset pivot hinges, minimum 1-3/4" to 2-1/4" thickness.

Installation: Provide optional handheld remote device for programming *SafeZone* sensor settings. Auxiliary door stops are recommended at closer/holder openings and required at doors opening beyond 110°. Interior installation only.

Power: Closer units operate on (120VAC, 60Hz) or (24VDC) with an amperage draw not exceeding (.086 Amps for 24VDC) (.051 Amps for 120VAC). Supplier to coordinate electrical requirements with electrical and alarm system engineers. Field wiring (and conduit) by others.

Electromechanical *SafeZone* Closer/Holder to be Norton® 7100SZ Series.

HOW TO ORDER



\*600 is a special rust-inhibiting prime coat. Closers can be ordered prime coat only (specify closer x 600). An additional charge applies if finish coat is required over prime coat (ex: 7114SZ x 600 x 689).

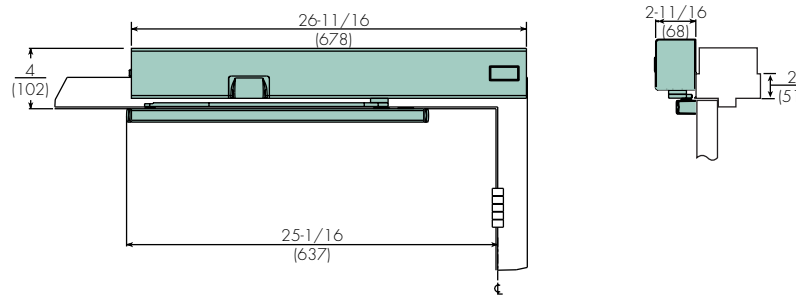
### PULL SIDE

- Surface mounted to the pull (hinge) side frame face
- Slide track mounts directly to door
- Minimum 4" ceiling clearance required
- 1/8" (3mm) – maximum frame reveal
- Handed
- Standard units accommodate doors opening 180°; maximum 175° hold open (110° maximum for 7150SZ series).
- Buffer block assembly in the track will accommodate doors opening to 125°
- Auxiliary door stop is required for doors opening beyond 125°
- Fail Safe – solenoid will de-energize in the event of power failure
- Accommodates either concealed or surface wiring
- Selective Hold Open
  - Standard on all units (can be disengaged)
  - Activates the viewing sensor only when the door opens beyond a specific angle
  - Once the door is manually opened past the set point, SafeZone holds the door until movement is no longer detected
  - If the door is not opened to the predetermined opening angle, SafeZone operates like a regular door closer and simply closes the door



7110SZ Shown

### TECHNICAL DETAILS



### DOOR SIZE

Maximum Door Size (cm)	Model Number	Model Number - Deep Reveal
40" (102)	7113SZ	7153SZ
44" (112)	7114SZ	7154SZ
48" (122)	7115SZ	7155SZ

Note: Contact factory if door weight exceeds 250 lbs.

**Minimum door width = 28" (71 cm)**

#### Deep Reveals

- Special slide arm is available for reveals in excess of 1/8" (3mm) up to 3" (76mm) 7150SZ Series
- 110° maximum door swing

### ELECTRICAL DATA

Series Number	Operating Voltage (Input)	No. Power Input Lines* (Pairs)	Amperage Draw
			Solenoid Coil
7110SZ 7150SZ	24VDC 120VAC	1	.070 @ 24VDC
			.035 @ 120VAC

\*Max/Min Operating Voltage Parameters +10% / -15%

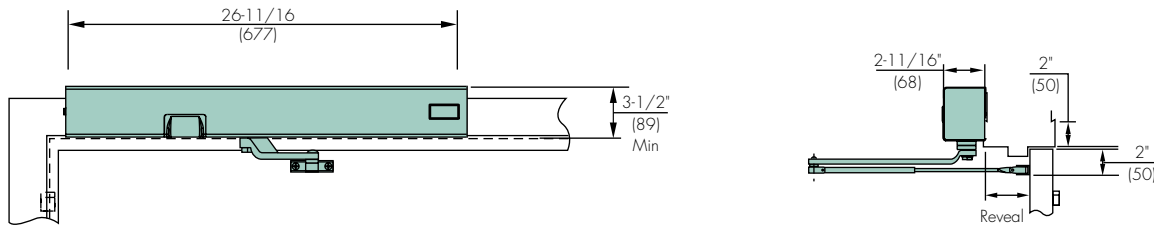
**PUSH SIDE**

- Surface mounted to the push (stop) frame face
- Double lever arm mounts directly to the door
- Minimum 4" (102mm) ceiling clearance required
- Handed
- Standard units accommodate doors opening 180°; maximum 175° hold open
- Fail Safe – solenoid will de-energize in the event of power failure
- Accommodates either concealed or surface wiring
- Selective Hold Open
  - Standard on all units (can be disengaged)
  - Activates the viewing sensor only when the door opens beyond a specific angle
  - Once the door is manually opened past the set point, SafeZone holds the door until movement is no longer detected
  - If the door is not opened to the predetermined opening angle, SafeZone operates like a regular door closer and simply closes the door



7120SZ Shown

**TECHNICAL DETAILS**



Note: For applications with narrow top rails or limited ceiling clearance, a special drop angle bracket is required. See page 7.

**DOOR SIZE**

Maximum Door Size (cm)	Model Number	Maximum Degree of Opening	Reveal Range (Inches/mm)
ADA	7122SZ	180°	2-3/4" - 4" (70-102)
	7132SZ	165°	4"-7" (102-178)
40"	7123SZ	180°	2-3/4" - 4" (70-102)
	7133SZ	165°	4"-7" (102-178)
44"	7124SZ	180°	2-3/4" - 4" (70-102)
	7134SZ	165°	4"-7" (102-178)
48"	7125SZ	180°	2-3/4" - 4" (70-102)
	7135SZ	165°	4"-7" (102-178)

Note: Contact factory if door weight exceeds 250 lbs.

**ELECTRICAL DATA**

Series Number	Operating Voltage (Input)	Number Power Input Lines* (Pairs)	Amperage Draw
			Solenoid Coil
7120SZ 7130SZ	24VDC	1	.070 @ 24VDC
	120VAC		.035 @ 120VAC

CLOSER BODIES

Description	Mounting	Hand	Part Number
Closer Bodies	Push or Pull	Left	720XLAP24L
		Right	720XLAP24R

ARM & TRACK ASSEMBLIES

Description	For Series	Part Number
Slide Track	7110SZ, 7150SZ	7100-1T
Slide Arm	7110SZ	7110-1A
Double Lever Arm	7120SZ	7701-1A
Double Lever Arm	7130SZ	7701-1B
Double Egress Arm - Left Hand	7150SZ	7150-1L
Double Egress Arm - Right Hand		7150-1R

TRACK & ARM PARTS

Description	Part Number
Slider Assembly (part of slide track assembly)	7100SLD
Cushion Block	7100CB

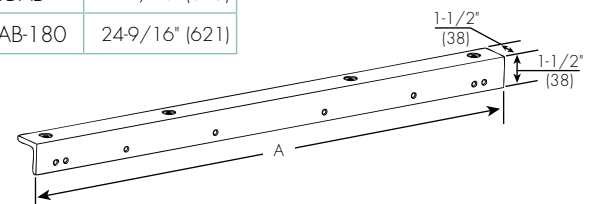
COVERS

Description	Part Number
Left Hand (for LH pull OR RH push units)	7100CL
Right Hand (for RH pull OR LH push units)	7100CR

MISCELLANEOUS PARTS

Description	Part Number
Power Supply (120V only)	7100PS
Remote	7100REM
Selective Hold Open Switch Assembly 24V	SHOK
Sensor Kit	7100SK

Description	Part Number	A (Length)
Drop Angle Bracket	7100DAB	29-9/16" (675)
	7100DAB-180	24-9/16" (621)



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applications please visit our web site.  
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