Combines the function of an electromechanical door holder and door closer
INTRODUCTION
The 7200 Series Electromechanical Closer/Holders combine the functions of an electromechanical door holder with the 7700 series door closer.

FEATURES
Master Unit: 7200MPDO
Consists of an on-board power supply (for 120VAC input option) or a terminal strip (for 24VDC input option), an integral smoke detector module and a door closer assembly with internal electro-hydraulic holder capability. A Master Unit can control a single door or one leaf of a pair of doors. A 24VDC Slave/Support Unit is required on the opposite door leaf.

Slave/Support Units: 7200MPSO
Identical in size to the Master Unit, the Slave/Support Unit consists of an on-board power supply (for 120VAC input option) or a terminal strip (for 24VDC input option) and a door closer assembly with internal electrohydraulic holder capability. This unit (120VAC or 24VDC) is intended to control a single door or a pair of doors where the building’s alarm system monitors the power to the Slave/Support Unit (24VDC input) or to control the inactive leaf of a pair of doors where the active leaf is controlled by a Master Unit.

Executive™ Unit: RFS Suffix
Identical in size and appearance to a Master Unit, the Executive Unit consists of an on-board power supply (for 120VAC input option) or a terminal strip (for 24VDC input option), a 433MHz radio frequency receiver and a door closer assembly with internal electro-hydraulic holder capability. Unit is intended to provide remote wireless release of a door that has been manually placed into the electrified hold open position. Not intended for use in life safety applications.
7200 SERIES
ELECTROMECHANICAL CLOSER/HOLDER

OVERVIEW
Master Unit Shown

CERTIFICATIONS
» ANSI/BHMA A156.15 certified
» UL / cUL listed for use on fire rated doors
» UL10C listed for positive pressure fire test
» This product is manufactured in an ISO 9001 facility

SPECIFICATIONS
Closer for _____ doors shall be electromechanical (with integral smoke detector) and completely enclosed in a metal cover. Units shall be surface mounted to the frame face [on the pull (hinge side) or the push (opposite hinge side)] of the door [and shall project no more than 2-11/16" (68mm) from the surface of the frame]. (Closer shall be installed in the header of the frame, and the slide track mortised into the door’s top rail). Closer unit shall be hydraulic, full rack and pinion type with a cast aluminum alloy shell. Hydraulic fluid shall be non-gumming and non-freezing. Closer unit shall have two noncritical valves to independently regulate closing and latch speed. It shall also have an adjustable backcheck with a hex-key. Closer unit shall have spring power adjustment to permit a 50% increase in closing power over the minimum closing force for any size. Electromechanical Closer shall have (Infinite) (Selective) Hold Open (Free Swing Operation) and shall be able to attain a maximum opening of 180° (with hold open to 175°). Unit to be fail safe and must close the door during any electrical power interruption to the unit. (Closer/Holder to be Executive Door Holder/Release with release actuated by battery operated hand-held controller). Unit(s) to operate on (120VAC, 60Hz) (24VDC) and will accept (surface) (concealed) wiring. Amperage draw shall not exceed (.105 Amps for 24VDC) (.046 Amps for 115VAC) units. Supplier to coordinate electrical requirements with electrical and alarm system engineers. Wiring (and conduit) by others.

Electromechanical Units to be Norton® Series 7200 (Closer/Holder), (Free Swing Releasing Device), (Executive Door Holder/Release).
EXPLANATION OF FEATURES

Aluminum Alloy Housing
Closer bodies are constructed of a special aluminum alloy, carefully selected to accommodate interactive steel components and operating conditions.

Rack & Pinion Operation
Provides a smooth constant control of the door through its full opening and closing cycle.

Spring Sizes
Specify closer size 3, 4 or 5. Size 6 available with 7290 overhead concealed units.

Sweep Speed Control Valve
Allows adjustment of door speed from the door’s full open position down to approximately 10° from the closed position.

Latch Speed Control Valve
Allows adjustment of door speed from approximately 10° down to the door’s fully closed position.

Adjustable Backcheck Cushioning
Provides control of the door in the opening cycle, beginning at approximately 75° of door opening. It slows/cushions the door opening, when the door is forcibly opened beyond its pre-adjusted limits.

Adjustable Backcheck Position Valve
Allows the door opening position, where backcheck cushioning begins, to be adjusted to a greater door angle, up to a maximum of 20° farther (approximately 95°).

Handed
Specify right or left hand when ordering.

Selective Hold Open (Standard)
The door will hold open at any degree of opening beyond a pre-set hold open point, up to 175°, with a maximum allowable door opening of 180° (exception series 7250 at 110°).

Infinite Hold Open
The door will hold open at any degree of opening up to 175°, with a maximum allowable door opening of 180° (exception series 7250 at 110°). Can be set in the field by turning cam.

Fail Safe
In the event of a power failure, the solenoid will de-energize and the closer/holder will then operate as a normal door closer.

Wiring Option
All 7200 Series Electromechanical Closer/Holders will accommodate either concealed or surface wiring.

Selective Hold Open Switch and Cam:
The Selective Hold Open starting point is determined by a switch and adjustment cam assembly. The cam is attached to the upper pinion shaft by means of a machine screw. As the door is opened, the pinion shaft will rotate the cam and operate the switch to the “on” position to initiate hold open. When the door is closed, the pinion cam will operate the switch to the “off” position. The cam is factory set to operate at 80° of door opening. The cam can be easily field adjusted to operate at virtually any degree of door opening.

EXPLANATION OF FEATURES - SMOKE DETECTOR

Fire/Smoke Control Circuit:
Interprets the signal from the detector and provides switching contacts to interrupt hold open solenoid, to sound alarms, etc.

Trouble (Relay) Contacts:
Normally closed in standby condition, these supervisory contacts monitor the continuity of power within the detector circuit. Any power interruption within the detector circuit will open these contacts. They can then be used to simultaneously indicate a Trouble Condition to the Alarm Panel on a separate trouble circuit.

Alarm (Relay) Contacts:
Normally open in standby condition (operating and sensing for smoke condition). These contacts close during an alarm condition (smoke detected) and may be used to switch power from the solenoid to an optional local alarm.

Locked-In Alarm:
The unit which alarms must be manually reset. This can be accomplished by remote control from the alarm system panel or by the reset switch in the smoke detector module. Reset switch is accessible through the center louver in the cover. Reset by rotating LED chambers using small flat blade screwdriver.

Indicator Lights:
Normal Mode: A red LED flashes once every eight (8) seconds.
Clean Mode: A red LED flashes once every second.
Alarm Mode: A red LED illuminates continuously.

Test Switch:
Permits door to be released from hold open without causing a “trouble condition” at the alarm panel. Allows for periodic testing of the automatic door release function.
MASTER UNITS

7210/7250
» Surface mounted to the pull (hinge) side frame face
» Slide track mounts directly to door
» Minimum 4" ceiling clearance required
» 1/8" (3mm) – standard frame reveal. For deeper reveals, a special slide arm is required (see chart on pg 6)
» Handed
» Standard units accommodate doors opening 180°; maximum 175° hold open
» Buffer block assembly in the track will accommodate doors opening to 125°
» Auxiliary door stop is required for doors opening beyond 125°
» Units shipped Selective Hold Open; Infinite Hold Open can be set in the field
» Fail Safe – solenoid will de-energize in the event of power failure
» Accommodates either concealed or surface wiring

Single Doors:
» Master Units with Integral Smoke Detector:
  Both Series 7210MPDO or 7250MPDO are self-contained and can be installed to control a single door
» Executive™ Door Holder/Release:
  Both Series 7210RFS or 7250RFS are self-contained and can be installed to control a single door

Pair of Doors:
» Master Unit x Slave/Support Unit:
  Smoke Detector in the Master Unit controls the Closer/Holder solenoid in both the Master Unit and the Slave/Support Unit

TECHNICAL DETAILS
DOOR SIZE

<table>
<thead>
<tr>
<th>Maximum Door Size</th>
<th>Arm Function</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standard Reveal</td>
<td>Deep Reveal (see note below)</td>
<td></td>
</tr>
<tr>
<td>40&quot; (102cm)</td>
<td>7213MPDO</td>
<td>7253MPDO</td>
<td></td>
</tr>
<tr>
<td>44&quot; (112cm)</td>
<td>7214MPDO</td>
<td>7254MPDO</td>
<td></td>
</tr>
<tr>
<td>48&quot; (122cm)</td>
<td>7215MPDO</td>
<td>7255MPDO</td>
<td></td>
</tr>
</tbody>
</table>

MINIMUM DOOR SIZE = 28" (71CM)

Note: Deep Reveals
- Special slide arm is available for reveals in excess of 1/8" (3mm) up to 3" (76mm) 7250MPDO series
- 110° maximum door swing

Contact factory if door weight exceeds 250 lbs.

ELECTRICAL DATA

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Suffix</th>
<th>Operating Voltage (Input)</th>
<th>No. Power Input Lines* (Pairs)</th>
<th>Amperage Draw</th>
<th>Solenoid Coil</th>
<th>(Can be) Used with Slave Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>7210</td>
<td>MPDO</td>
<td>24VDC</td>
<td>1</td>
<td>.016@24VDC</td>
<td>.035@24VDC</td>
<td>7210MPSO-24</td>
</tr>
<tr>
<td>7250</td>
<td>MPDO</td>
<td>120VAC</td>
<td></td>
<td>.070@24VDC</td>
<td></td>
<td>7250MPSO-24</td>
</tr>
</tbody>
</table>

*Max/Min Operating Voltage Parameters +10% / -15%
7200 SERIES
ELECTROMECHANICAL CLOSER/HOLDER

SLAVE/SUPPORT UNITS

7210/7250
» Surface mounted to the pull (hinge) side frame face
» Slide track mounts directly to door
» Minimum 4" ceiling clearance required
» 1/8" (3mm) – standard frame. For deeper reveals, a special slide arm is required (see chart below)
» Handed
» Standard units accommodate doors opening 180°; maximum 175° hold open
» Buffer block assembly in the track will accommodate doors opening to 125°
» Auxiliary door stop is required for doors opening beyond 125°
» Units shipped Selective Hold Open; Infinite Hold Open can be set in the field
» Fail Safe – solenoid will de-energize in the event of power failure
» Accomodates either concealed or surface wiring

Pairs of Doors:
» Master Unit x Slave/Support Unit:
Smoke Detector in the Master Unit controls the Closer/Holder solenoid in both the Master Unit and the Slave/Support Unit

TECHNICAL DETAILS

ELECTRICAL DATA

<table>
<thead>
<tr>
<th>Series Number</th>
<th>Suffix</th>
<th>Operating Voltage (Input)</th>
<th>No. Power Input Lines* (Pairs)</th>
<th>Amperage Draw Solenoid Coil</th>
<th>(Can be) Used with Master Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>7210/7250 MPSO</td>
<td>24VDC (only)</td>
<td>1</td>
<td>0.070@24VDC</td>
<td>7210MPDO-24 7250MPDO-24</td>
<td></td>
</tr>
<tr>
<td></td>
<td>24VDC supplied from Master Unit</td>
<td></td>
<td></td>
<td>7210MPDO-120 7250MPDO-120</td>
<td></td>
</tr>
</tbody>
</table>

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

DOOR SIZE

<table>
<thead>
<tr>
<th>Maximum Door Size (cm)</th>
<th>Standard Reveal (to 1/8” (3mm) reveal)</th>
<th>Deep Reveal (see note)</th>
</tr>
</thead>
<tbody>
<tr>
<td>40” (102)</td>
<td>7213MPSO</td>
<td>7253MPSO</td>
</tr>
<tr>
<td>44” (112)</td>
<td>7214MPSO</td>
<td>7254MPSO</td>
</tr>
<tr>
<td>48” (122)</td>
<td>7215MPSO</td>
<td>7255MPSO</td>
</tr>
</tbody>
</table>

Note: Deep Reveals
» Special slide arm is available for reveals in excess of 1/8” (3mm) up to 3” (76mm) 7250MPSO series
» 110° maximum door swing

Contact factory if door weight exceeds 250 lbs.
MASTER UNITS

7220/7230

» 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
» Units shipped Selective Hold Open; Infinite Hold Open can be set in the field
» Fail Safe – solenoid will de-energize in the event of power failure
» Accommodates either concealed or surface wiring

Single Doors:

» Master Units with Integral Smoke Detector:
  Both Series 7220MPDO, 7230MPDO are self-contained and can be installed to control a single door
» Executive™ Door Holder/Release:
  Both Series 7220RFS, 7230RFS are self-contained and can be installed to control a single door

Pairs of Doors:

» Master Unit x Slave/Support Unit:
  Smoke Detector in the Master Unit controls the Closer/Holder in both the Master Unit and the Slave/Support Unit

TECHNICAL DETAILS

Note: For applications with narrow top rails or limited ceiling clearance, a special drop angle bracket is required. See page 14.
### DOOR SIZE

<table>
<thead>
<tr>
<th>Operating Voltage (Input)</th>
<th>Model Number</th>
<th>Model Number</th>
<th>Maximum Degree of Opening</th>
<th>Reveal Range (Inches/mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>42” (107)</td>
<td>7223MPDO</td>
<td>7223RFS</td>
<td>180°</td>
<td>2-3/4&quot; - 4&quot; (70 - 102)</td>
</tr>
<tr>
<td></td>
<td>7223MPDO</td>
<td>7233RFS</td>
<td>165°</td>
<td>4&quot; - 7&quot; (102 - 178)</td>
</tr>
<tr>
<td></td>
<td>7224MPDO</td>
<td>7224RFS</td>
<td>180°</td>
<td>2-3/4&quot; - 4&quot; (70 - 102)</td>
</tr>
<tr>
<td></td>
<td>7224MPDO</td>
<td>7234RFS</td>
<td>165°</td>
<td>4&quot; - 7&quot; (102-178)</td>
</tr>
</tbody>
</table>

Note: Contact factory if door weight exceeds 250 lbs.

### ELECTRICAL DATA

**Master Units**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Suffix</th>
<th>Operating Voltage (Input)</th>
<th>No. Power Input Lines* (Pairs)</th>
<th>Amperage Draw</th>
<th>Smoke Detector</th>
<th>Solenoid Coil</th>
<th>(Can be) Used with Slave Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>7220</td>
<td>MPDO</td>
<td>24VDC</td>
<td>1</td>
<td>.016@24VDC</td>
<td>.035@24VDC</td>
<td>.070@24VDC</td>
<td>7220MPSO 7230MPSO</td>
</tr>
<tr>
<td>7230</td>
<td></td>
<td>120VAC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Executive™ Door Holder Release**

<table>
<thead>
<tr>
<th>Series Number</th>
<th>Operating Voltage (Input)</th>
<th>No. Power Input Lines* (Pairs)</th>
<th>Amperage Draw</th>
<th>Solenoid Coil</th>
</tr>
</thead>
<tbody>
<tr>
<td>7220RFS</td>
<td>120VAC</td>
<td>1</td>
<td>.070@24VDC</td>
<td></td>
</tr>
<tr>
<td>7230RFS</td>
<td>24VDC</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Max/Min Operating Voltage Parameters +10%/-15%
SLAVE/SUPPORT UNITS

7220/7230
» 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
» Units shipped Selective Hold Open; Infinite Hold Open can be set in the field
» Fail Safe – solenoid will de-energize in the event of power failure
» Accommodates either concealed or surface wiring

Pairs of Doors:
» **Master Unit x Slave/Support Unit:**
  Smoke Detector in the Master Unit controls the Closer/Holder in both the Master Unit and the Slave/Support Unit

TECHNICAL DETAILS

Note: For applications with narrow top rails or limited ceiling clearance, a special drop angle bracket is required. See page 14.

DOOR SIZE

<table>
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<tr>
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</tr>
<tr>
<td></td>
<td>7233MPSO</td>
<td>165°</td>
<td>4” - 7” (102 - 178)</td>
</tr>
<tr>
<td>48” (122)</td>
<td>7224MPSO</td>
<td>180°</td>
<td>2-3/4” - 4” (70 - 102)</td>
</tr>
<tr>
<td></td>
<td>7234MPSO</td>
<td>165°</td>
<td>4” - 7” (102 - 178)</td>
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</tbody>
</table>

Note: Contact factory if door weight exceeds 250 lbs.

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<thead>
<tr>
<th>Model Number</th>
<th>Suffix</th>
<th>Operating Voltage (Input)</th>
<th>No. Power Input Lines* (Pairs)</th>
<th>Amperage Draw</th>
<th>Solenoid Coil</th>
<th>(Can be) Used with Slave Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>7220RFS</td>
<td>MPSO</td>
<td>24VDC (only)</td>
<td>1</td>
<td>.070@24VDC</td>
<td></td>
<td>7220MPDO-24 7230MPDO-24</td>
</tr>
<tr>
<td>7230RFS</td>
<td></td>
<td>24VDC Supplied from Master Unit</td>
<td></td>
<td></td>
<td></td>
<td>7220MPDO-120 7230MPDO-120</td>
</tr>
</tbody>
</table>

*Max/Min Operating Voltage Parameters +10%/-15%
7200 SERIES
ELECTROMECHANICAL CLOSER/HOLDER

7240 CONNECTED FREE SWING ARM

The connected free swing arm assembly provides the convenient automatic closing fire door protection for health care facilities or other locations where it is desired to neutralize the effort required to open or close a door. With no spring force on the door during the normal operation, patients, the handicapped and/or staff find the door easy to open, close or leave ajar.

Functions:

» Arm driver connected to the closer pinion drives the pinion when the door is opened and the slide arm rotates
» When unit is energized the pinion and arm driver remain at the point where door was initially opened
» Arm is connected to the pinion but is free to pivot
» The door is free to open, close or be set at any degree of opening
» When there is a Fire/Smoke alarm or any power interruption, the hold open control valve is released, and door closes
» Units shipped Selective Hold Open; Infinite Hold Open can be set in the field

UL Listed:
7200 Series with Connected Free Swing arm is UL listed as a releasing device for Fire/Smoke Barrier doors

<table>
<thead>
<tr>
<th>Maximum Door Size (cm)</th>
<th>Model Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Master</td>
</tr>
<tr>
<td>Selective Hold Open</td>
<td></td>
</tr>
<tr>
<td>40' (102)</td>
<td>7243MPDO</td>
</tr>
<tr>
<td>44' (112)</td>
<td>7244MPDO</td>
</tr>
<tr>
<td>48' (122)</td>
<td>7245MPDO</td>
</tr>
</tbody>
</table>

Specify voltage and hand of door when ordering
Note: Contact factory if door weight exceeds 250 lbs.
7200 SERIES
ELECTROMECANICAL CLOSER/HOLDER

7290 OVERHEAD CONCEALED SUPPORT UNIT

Controlled Remotely by Area/Ceiling Detectors
» Handed
» Unit concealed in the header of the frame
» Installation requires a 4” (102mm) high frame header
» A 2” x 4” (51 x 102mm) dust/grout box and a removable frame stop (provided by the door and frame supplier) are required
» Slide track is mortised in the door’s top rail
» Standard units accommodate doors opening 180°; maximum 175° hold open
» Buffer block assembly in the track will accommodate doors opening to 125°
» Auxiliary door stop is required for doors opening beyond 125°
» Units shipped Selective Hold Open; Infinite Hold Open can be set in the field
» Intended for use with compatible UL listed ceiling alarm detection equipment
» Fail Safe – solenoid will de-energize in the event of power failure

TECHNICAL DETAILS

Support Unit

Model Number | Suffix | Number power Input Lines* (pairs) | Operating Voltage (input) | Amperage Draw Solenoid Coil (amperees)
--- | --- | --- | --- | ---
7290 | MPS | 1 | 24VAC/DC | .070@24VAC/DC
 | | | 120VAC | .035@120VAC

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

Note: Contact factory if door weight exceeds 250 lbs.
## Closer Bodies

<table>
<thead>
<tr>
<th>Description</th>
<th>Mounting</th>
<th>Voltage</th>
<th>Hand</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Closer/Holder Assembly</td>
<td>Push or Pull</td>
<td>24VDC</td>
<td>Left</td>
<td>720XLAPS24L</td>
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<td></td>
<td></td>
<td></td>
<td>Right</td>
<td>720XLAPS24R</td>
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</tbody>
</table>

## Arm & Track Assemblies

<table>
<thead>
<tr>
<th>Description</th>
<th>For Series</th>
<th>Part Number</th>
</tr>
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<tbody>
<tr>
<td>Slide Track</td>
<td>7210, 7240, 7250</td>
<td>7100-JT</td>
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<tr>
<td>Slide Arm</td>
<td>7210</td>
<td>7110-1A</td>
</tr>
<tr>
<td>Connected Free Swing Arm</td>
<td>7240</td>
<td>7140-1A</td>
</tr>
<tr>
<td>Double Egress Arm – Right Hand</td>
<td>7250</td>
<td>7150-1R</td>
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<tr>
<td>Double Egress Arm – Left Hand</td>
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<td>7150-1L</td>
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<tr>
<td>Double Lever Arm</td>
<td>7220</td>
<td>7701-1A</td>
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<tr>
<td>Double Lever Arm</td>
<td>7230</td>
<td>7701-1B</td>
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<tr>
<td>Arm Assembly NHO – Right Hand</td>
<td>7290</td>
<td>7950-1R</td>
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<tr>
<td>Arm Assembly NHO – Left Hand</td>
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<td>Track Assembly NHO</td>
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<td>7950ST</td>
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## Track & Arm Parts

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
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<tbody>
<tr>
<td>Cushion Block (part of slide track assembly)</td>
<td>7100CB</td>
</tr>
<tr>
<td>Screw Pack for CFS Arm</td>
<td>7240SP</td>
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<tr>
<td>Slider Assembly</td>
<td>2800ST</td>
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MISCELLANEOUS PARTS

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
<th>A (Length)</th>
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<tbody>
<tr>
<td>Smoke Detector Board</td>
<td>MPDOSD24</td>
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</tr>
<tr>
<td>Cover (Slave/Support Unit)</td>
<td>MPSOCOV</td>
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<tr>
<td>Cover (Master Units)</td>
<td>MPDOCOV</td>
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<tr>
<td>Selective Hold Open Switch Assembly 24V</td>
<td>SHOK</td>
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</tr>
<tr>
<td>Switch 24V</td>
<td>SHO</td>
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<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
<th>A (Length)</th>
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</thead>
<tbody>
<tr>
<td>Drop Angle Bracket</td>
<td>7100DAB</td>
<td>29-9/16” (675)</td>
</tr>
<tr>
<td></td>
<td>7100DAB-180</td>
<td>24-9/16” (621)</td>
</tr>
</tbody>
</table>
HOW TO ORDER

72 1 4 MPDO X HAND X VOLTAGE X FINISH

7200 Series Closer/Holder

Suffix:
- Selective Hold Open
- MPDO – Master Unit
- MPSO – Slave/Support (24VDC only when used with Master Unit)
- Executive™ Door Release
- RFS – Selective Hold Open

Note: Refer to page 14 if special drop angle bracket is needed - 7220, 7230 only

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Specify Norton Designation (BHMA)</th>
<th>Complements the following finishes</th>
<th>Old Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td>689</td>
<td>628, 625, 629, 630, 651, 652</td>
<td>AL</td>
</tr>
<tr>
<td>Statuary Bronze</td>
<td>690</td>
<td>640, 613</td>
<td>STAT</td>
</tr>
<tr>
<td>Dull Bronze</td>
<td>691</td>
<td>612, 637, 639</td>
<td>DB</td>
</tr>
<tr>
<td>Black</td>
<td>693</td>
<td>315</td>
<td>315</td>
</tr>
<tr>
<td>Medium Amber</td>
<td>694</td>
<td>312</td>
<td>312</td>
</tr>
<tr>
<td>Gold</td>
<td>696</td>
<td>605, 606, 632, 633</td>
<td>GB</td>
</tr>
<tr>
<td>Black Suede Powder</td>
<td>8SP</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>White Suede Powder</td>
<td>WSP</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

Specifies side of door unit is mounted on and the type of arm

Pull Side
- **“1”** – Rigid Slide Arm & Track
  Maximum reveal 1/8” (3mm)
- **“4”** – Connected Free Swing Slide Arm & Track
  Maximum reveal 1/8” (3mm)
- **“5”** – Double Egress Slide Arm & Track
  Reveals 1/8”-3” (3-76mm) to 110°
- **“9”** – Overhead Concealed Door Closer with Rigid Slide Arm & Track

Push Side
- **“2”** – Double Lever Arm
  Reveals 2-3/4”-4” (70-120mm) to 180°
  Reveals 4”-7” (102-179mm) to 165°
- **“3”** – Double Lever Arm
  Reveals 4”-7” (102-179mm) to 180°

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.