



4200 Series

Electromechanical Closer-Holder Releasing Device

An ASSA ABLOY Group brand

ACCENTRA

ASSA ABLOY

ASSA ABLOY is transitioning the Yale Commercial brand to ACCENTRA. This affects only the brand name; the products and product numbers will remain unchanged. Prior to May 20, 2024, products may be shipped either as Yale Commercial brand or ACCENTRA brand. Products shipping after May 20, 2024, will be branded ACCENTRA.



introduction

The 4200 Series Electromechanical Closer-Holders combine the functions of an electromechanical door holder with the 400 series door closer. The 4200 features a choice of two types of hold open functions:

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 4250 at 110°). Factory set at 80°, but is adjustable to virtually any degree of door opening desired.

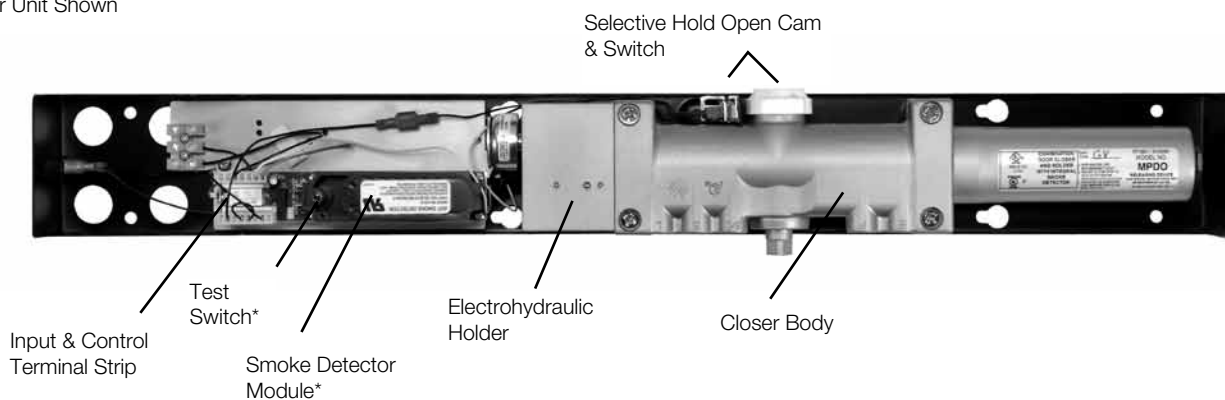
Infinite Hold Open: The door will hold open at any degree of opening up to 175° with a maximum allowable door opening of 180° (exception series 4250 at 110°). **Infinite Hold Open can be set in the field by turning the cam.**

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cutaway view of closer body

Master Unit Shown



*Master Unit Only

overview

basic units

Master Unit: 4200MPDO

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 Unit: 4200MPSO

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 electro-hydraulic 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) 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.

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) on 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 non-critical 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) (0.46 Amps for 115VAC) units. Supplier to coordinate electrical requirements with electrical and alarm system engineers. Wiring (and conduit) by others.

Electromechanical Units to be Yale® Series 4200 (Closer-Holder) (Free Swing Releasing Device), (Executive™ Door Holder/Release).

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 4290 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 4250 at 110°). Factory set at 80°, but is adjustable to virtually any degree of door opening desired.

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 4250 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 4200 Series Electromechanical Closer-Holder 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.

units with detectors

Fire/Smoke Control Circuit:

Interprets the signal from the detector and provides switching contacts to interrupt hold open solenoid, to sound alarms, etc.

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.

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.

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.

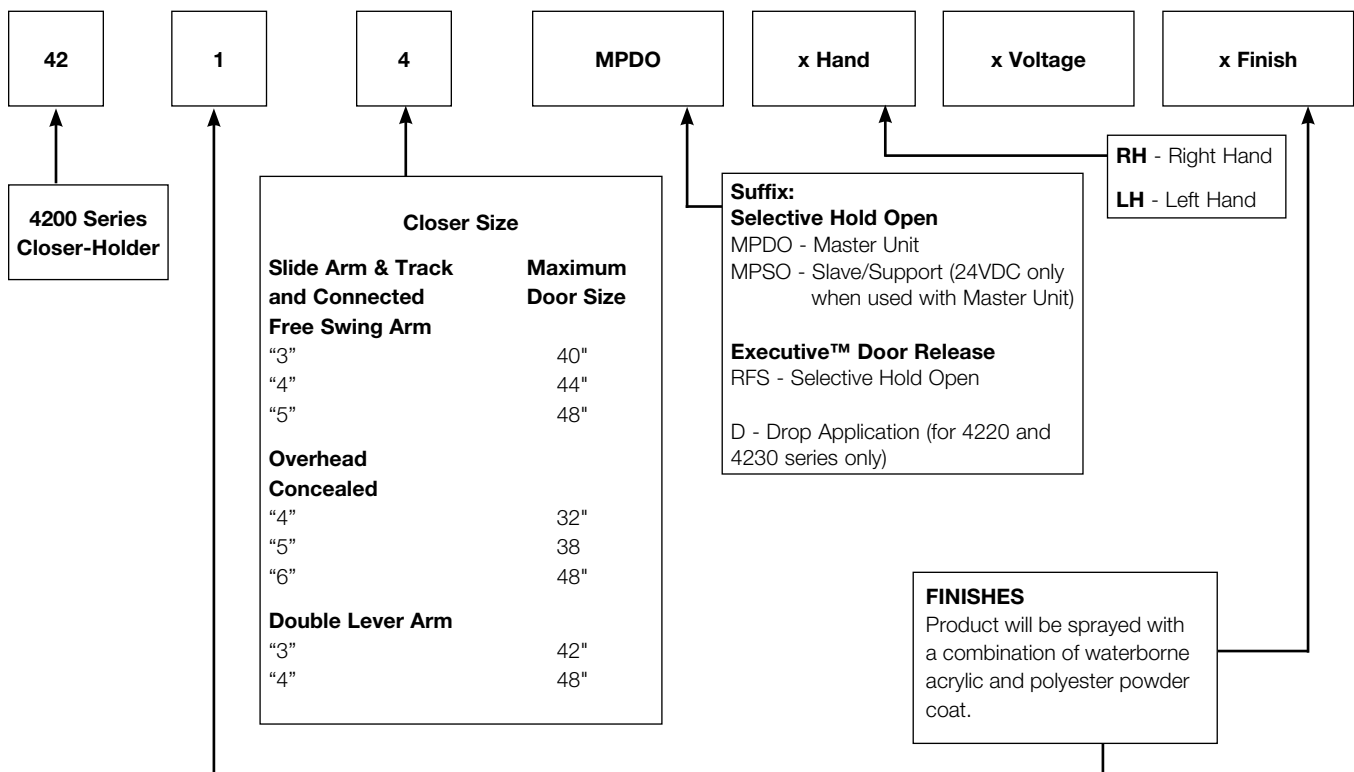
how to order

compliance standards

4200 Series is ANSI/BHMA A156.15 certified.

Electromechanical Closer-Holder are listed by Underwriters Laboratories for labeled fire doors. The product is manufactured in an ISO 9001 facility.

how to order



| 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° |

| Description | Specify Designation (BHMA) | Complements the following finishes | Old Designation |
|-----------------|----------------------------|------------------------------------|-----------------|
| Aluminum | 689 | 625, 628, 629, 630, 651 | SB |
| Statuary Bronze | 690 | 613, 640 | STAT |
| Dull Bronze | 691 | 612, 637, 639 | BL |
| Black | 693 | 315 | 315 |
| Medium Amber | 694 | 312 | 312 |
| Gold | 696 | 605, 606, 632, 633 | GB |
| Prime Coat* | 600 | | SRI |

*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: 4200MPO x 600 x 689). Finishes other than those listed above may be available on special order. Sample chips will be required.

Note: Contact factory if door weight exceeds 250 lbs.

master units

4210/4250

- 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 page 9).
- 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



4210MPDO Shown

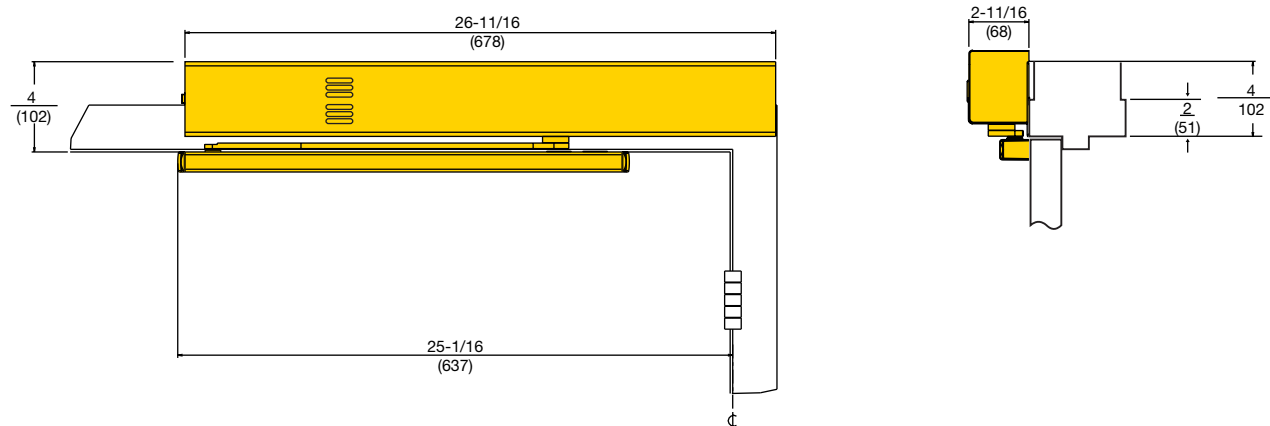
Single Doors:

- **Master Units with Integral Smoke Detector:**
Both Series 4210MPDO, 4250MPDO are self-contained and can be installed to control a single door.
- **Executive™ Door Holder/Release:**
Both Series 4210RFS, 4250RFS 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



master units

door size

| Maximum Door Size | Model Number | |
|-------------------|---|---------------------------------|
| | Standard Reveal (to 1/8" (3mm) reveal) | Deep Reveal (see note below) |
| | Selective Hold Open | |
| 40" (102cm) | 4213MPDO | 4253MPDO |
| 44" (112cm) | 4214MPDO | 4254MPDO |
| 48" (122cm) | 4215MPDO | 4255MPDO |

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) 4250MPDO series.
- 110° maximum door swing

electrical data

| Master Units | | | | | | | |
|--------------|--------|---------------------------|--------------------------------|----------------|----------------|----------------|-------------------------------|
| Model Number | Suffix | Operating Voltage (Input) | No. Power Input Lines* (Pairs) | Amperage Draw | | Solenoid Coil | (Can be) Used with Slave Unit |
| | | | | Smoke Detector | | | |
| | | | | Standby | Alarm | | |
| 4210 4250 | MPDO | 24VDC 120VAC | 1 | .016@ 24VDC | .035@ 24VDC | .070@ 24VDC | 4210MPSO-24 4250MPSO-24 |

| Executive™ Door Holder Release | | | |
|--------------------------------|---------------------------|--------------------------------|----------------|
| Model Number | Operating Voltage (Input) | No. Power Input Lines* (Pairs) | Amperage Draw |
| | | | Solenoid Coil |
| 4210RFS | 120VAC 24VDC | 1 | .070@ 24VDC |

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

slave/support units

4210/4250

- 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 page 9).
- Handed
- Standard units accommodate doors opening 180°; maximum 175° hold open (110° maximum for 4250 series).
- 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



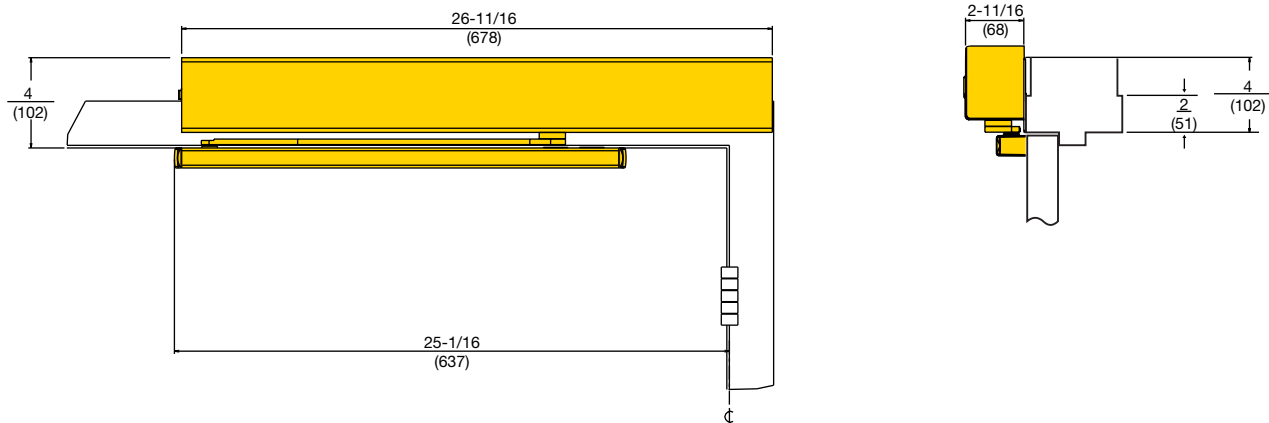
4210MPSO Shown

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





slave/support units

door size

| Maximum Door Size (cm) | Model Number | |
|------------------------|--|------------------------------|
| | Standard Reveal (to 1/8" (3mm) reveal) | Deep Reveal (see note below) |
| | Selective Hold Open | |
| 40" (102) | 4213MPSO | 4253MPSO |
| 44" (112) | 4214MPSO | 4254MPSO |
| 48" (122) | 4215MPSO | 4255MPSO |

Note: **Deep Reveals**

- Special slide arm is available for reveals in excess of 1/8" (3mm) up to 3" (76mm), 4250MPSO series
- 110° maximum door swing

electrical data

| Series Number | Suffix | Operating Voltage (Input) | No. Power Input Lines* (Pairs) | Amperage Draw | (Can be) Used with Master Unit |
|---------------|--------|---|--------------------------------|----------------|--|
| | | | | Solenoid Coil | |
| 4210 4250 | MPSO | 24VDC (only) 24VDC supplied from Master Unit | 1 | .070@ 24VDC | 4210MPDO-24 4250MPDO-24 4210MPDO-120 4250MPDO-120 |

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



master units

4220/4230

- 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 the field
- Fail Safe – solenoid will de-energize in the event of power failure
- Accommodates either concealed or surface wiring



4220MPDO Shown

Single Doors:

• Master Units with Integral Smoke Detector:

Both Series 4220MPDO, 4230MPDO are self-contained and can be installed to control a single door.

• Executive™ Door Holder/Release:

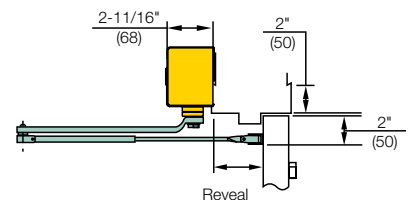
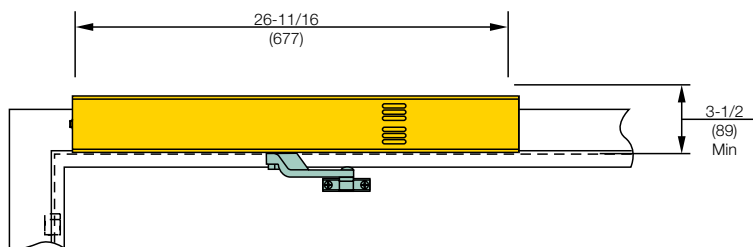
Both Series 4220RFS, 4230RFS are self-contained and can be installed to control a single door.

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 17.

master units

door size

| Maximum Door Size (cm) | Model Number | | Maximum Degree of Opening | Reveal Range (Inches/mm) |
|------------------------|---------------------|-------------------------|---------------------------|--------------------------|
| | Closer-Holder | Executive™ Door/Release | | |
| | Selective Hold Open | | | |
| 42" (107) | 4223MPDO | 4223RFS | 180° | 2-3/4" - 4" (70-102) |
| | | | 165° | 4"-7" (102-178) |
| | 4233MPDO | 4233RFS | 180° | 4"-7" (102-178) |
| 48" (122) | 4224MPDO | 4224RFS | 180° | 2-3/4" - 4" (70-102) |
| | | | 165° | 4"-7" (102-178) |
| | 4234MPDO | 4234RFS | 180° | 4"-7" (102-178) |

electrical data

| Master Units | | | | | | | |
|---------------|--------|---------------------------|--------------------------------|----------------|----------------|----------------|--------------------------------|
| Series Number | Suffix | Operating Voltage (Input) | No. Power Input Lines* (Pairs) | Amperage Draw | | | (Can be) Used with Master Unit |
| | | | | Smoke Detector | | Solenoid Coil | |
| | | | | Standby | Alarm | | |
| 4220 4230 | MPDO | 24VAC/DC | 1 | .016@ 24VDC | .035@ 24VDC | .070@ 24VDC | 4220MPDO 4230MPDO |
| 120VAC | | | | | | | |

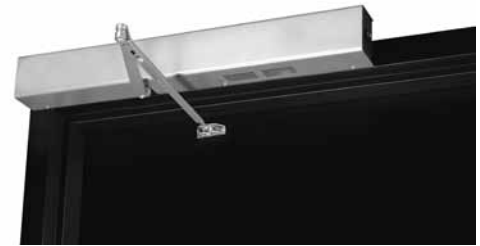
| Executive™ Door Holder Release | | | |
|--------------------------------|---------------------------|--------------------------------|-----------------|
| Series Number | Operating Voltage (Input) | No. Power Input Lines* (Pairs) | Amperage Draw |
| | | | Solenoid Coil |
| 4220RFS 4230RFS | 120VAC | 1 | .070@ 24 VDC |
| | 24VDC | | |

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

slave/support units

4220/4230

- Surface mounted to the push (stop) frame face
- Double lever arm mounts directly to the door
- Minimum 4" (102) 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



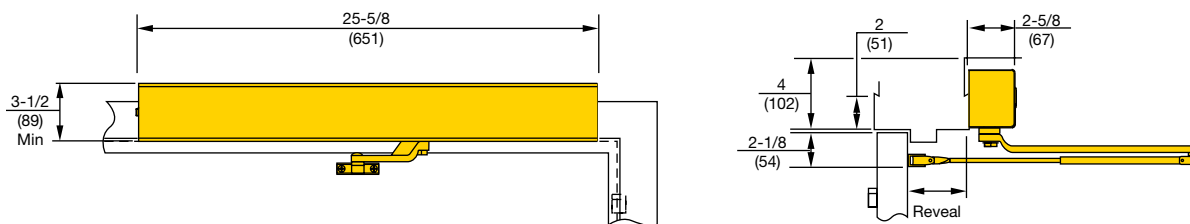
4220MPSO Shown

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 17.

slave/support units

door size

| Maximum Door Size (cm) | Model Number | Maximum Degree of Opening | Reveal Range (Inches/mm) |
|------------------------|---------------------|---------------------------|--------------------------|
| | Selective Hold Open | | |
| 42" (107) | 4223MPSO | 180° | 2-3/4" - 4" (70-102) |
| | | 165° | 4"-7" (102-178) |
| | 4233MPSO | 180° | 4"-7" (102-178) |
| 48" (122) | 4224MPSO | 180° | 2-3/4" - 4" (70-102) |
| | | 165° | 4"-7" (102-178) |
| | 4234MPSO | 180° | 4"-7" (102-178) |

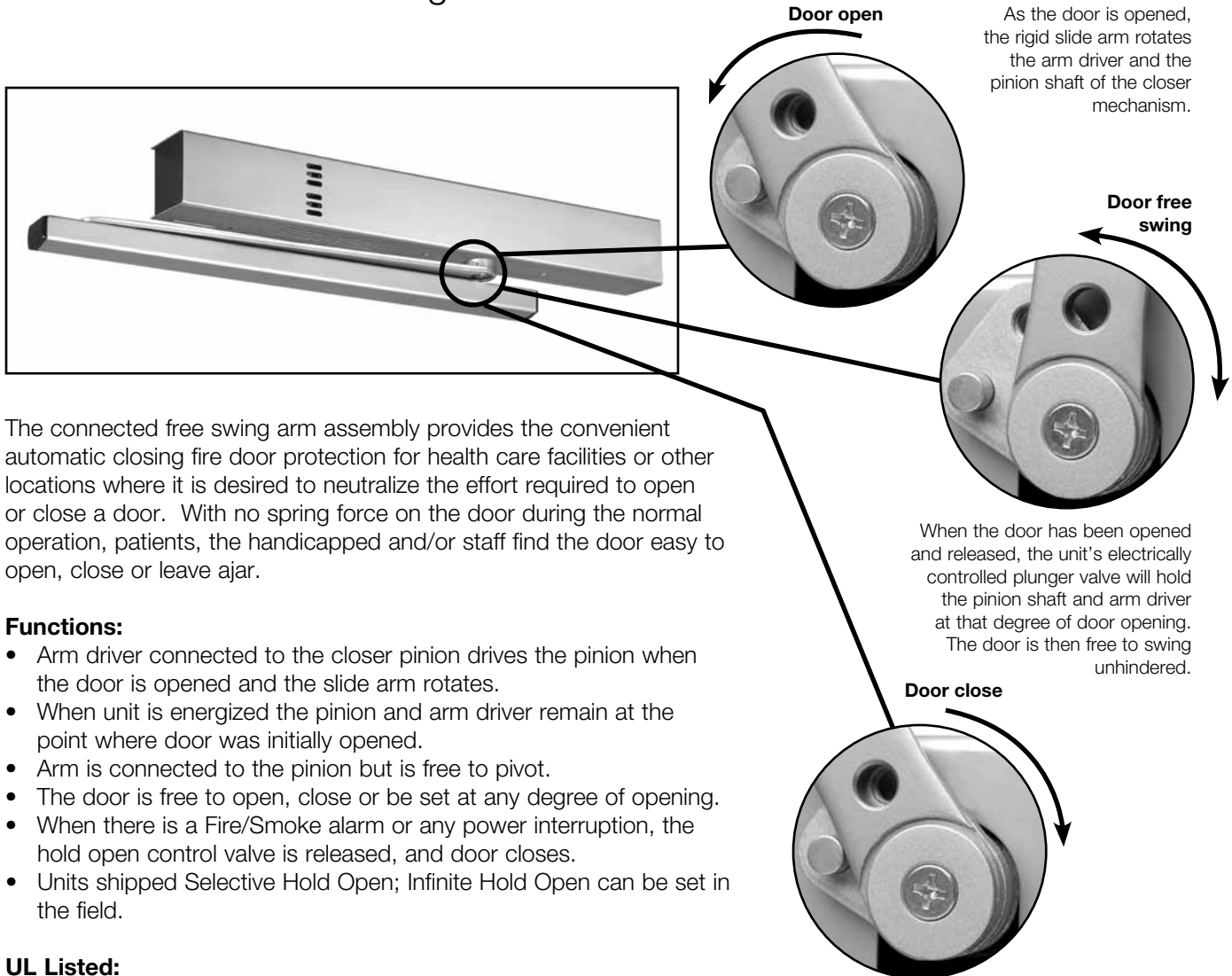
electrical data

| Model Number | Suffix | Operating Voltage (Input) | No. Power Input Lines* (Pairs) | Amperage Draw | (Can be) Used with Master Unit |
|--------------|--------|---|--------------------------------|----------------|--|
| | | | | Solenoid Coil | |
| 4220 4230 | MPSO | 24VDC (only) 24VDC Supplied from Master Unit | 1 | .070@ 24VDC | 4220MPDO-24 4230MPDO-24 4220MPDO-120 4230MPDO-120 |

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



4240 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:

4200 Series with Connected Free Swing arm is UL listed as a releasing device for Fire/Smoke Barrier doors.

| Maximum Door Size (cm) | Model Number | | | |
|------------------------|---------------------|----------|---------|-------------------------|
| | Master | Slave | Support | Executive™ Door Release |
| | Selective Hold Open | | | |
| 40" (102) | 4243MPDO | 4243MPSO | 4243MPO | 4243RFS |
| 44" (112) | 4244MPDO | 4244MPSO | 4244MPO | 4244RFS |
| 48" (122) | 4245MPDO | 4245MPSO | 4245MPO | 4245RFS |

Specify voltage and hand of door when ordering

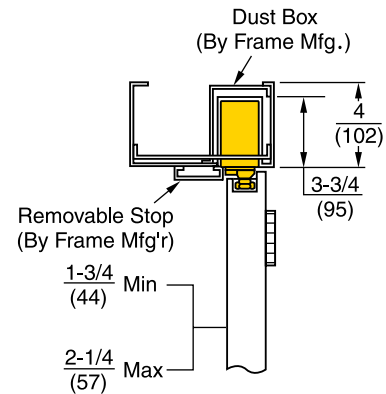
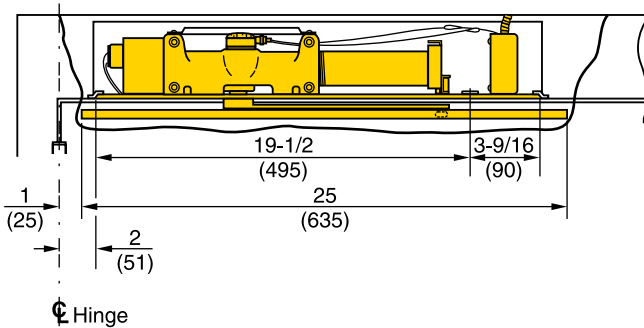
4290 overhead concealed support unit

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



door size

| Maximum Door Size (cm) | Model Number |
|------------------------|---------------------|
| | Selective Hold Open |
| 32" (81) | 4294MPS |
| 38" (97) | 4295MPS |
| 48" (122) | 4296MPS |

electrical data

| Model Number | Suffix | Number power Input Lines* (pairs) | Operating Voltage (input) | Amperage Draw Solenoid Coil (Amperes) |
|--------------|--------|-----------------------------------|---------------------------|---------------------------------------|
| 4290 | MPS | 1 | 24VAC/DC | .070@ 24VAC/DC |
| | | | 120VAC | .035@ 120VAC |

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

parts

closer bodies

| Description | Voltage | Hand | Part Number* |
|-----------------------------|---------|-------|--------------|
| 4200 Closer-Holder Assembly | 24V | Left | 420XLAPS24L |
| | | Right | 420XLAPS24R |

*Substitute the power size 3, 4 or 5 for the "X" in the catalog number.

arm and track assemblies

| Description | For Series | Part Number |
|--------------------------------|------------------|-------------|
| Slide Track | 4210, 4240, 4250 | 4100-1T |
| Slide Arm | 4210 | 4110-1A |
| Connected Free Swing Arm | 4240 | 4140-1A |
| Double Egress Arm - Right Hand | 4250 | 4150-1R |
| Double Egress Arm - Left Hand | | 4150-1L |
| Double Lever Arm | 4220 | 400-1A |
| Double Lever Arm | 4230 | 400-1B |
| Arm Assembly NHO - Right Hand | 4290 | 4290-1R |
| Arm Assembly NHO - Left Hand | | 4290-1L |
| Track Assembly NHO | | 4950ST |

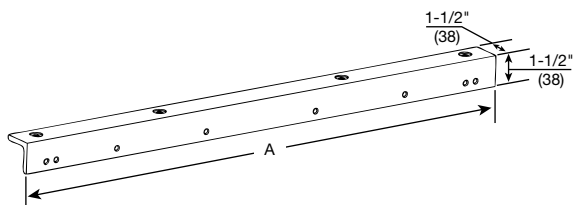
parts

track and arm parts

| Description | Part Number |
|--|-------------|
| Cushion Block (part of slide track assembly) | 4100CB |
| Screw Pack for CFS Arm | 4240SP |

miscellaneous parts

| Description | Part Number |
|---|-------------|
| Cover (Slave/Support Units) | MPSOCOV |
| Cover (Master Units) | MPDOCOV |
| Selective Hold Open Switch Assembly 24V | SHOK |
| Switch 24V | SHO |



| Description | Part Number | A (Length) |
|--------------------|-------------|----------------|
| Drop Angle Bracket | 4100DAB | 29-9/16" (675) |
| | 4100DAB-180 | 24-9/16" (621) |



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