RIXSON

ASSA ABLOY

ASSA ABLOY, the global leader
in door opening solutions

ELECTROMAGNETIC
DOOR HOLDER/RELEASES

Designed for remote door
release applications

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Introduction

Rixson offers a wide range of electromagnetic door holders/releases. Designed for virtually any remote door release application, electromagnetic door holders/releases primarily hold fire doors open until released by an alarm or smoke detector.

Floor mounted units are available for single or back-to-back doors. Wall mounted units feature concealed or surface wiring, low profile projection or high hold force.

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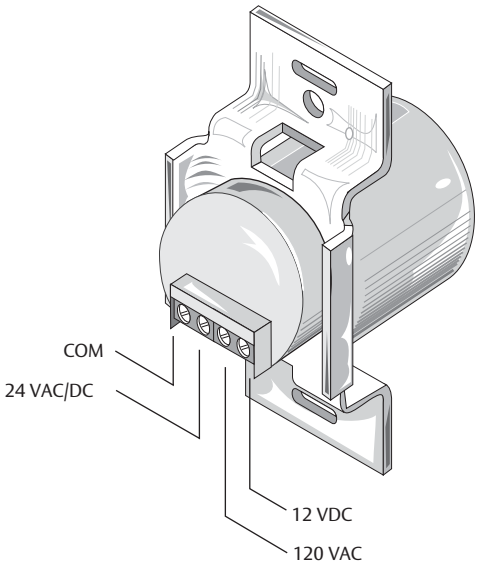
General Information

Electromagnetic door holder/releases are designed for virtually any remote door release applications. They must be used in conjunction with closing devices.

- Fire/smoke barrier doors
  - Door releases when tripped by an alarm or smoke detector
- Private offices
  - Door releases when triggered by a remote switch
- All devices come with a wall/floor portion and a door portion (armature)
- Circuit normally closed
- Door portions have screws and plates to accommodate surface and concealed mounting



Features

- 25 to 40 pounds holding power, except where noted
- Fail-safe operation; power failure releases door to close
- Positive release button initiates closing motion
- Tri-volt coils on most models see
- Spotting template included
- For stronger holding forces (50-55 lbs.) specify model and voltage. Not available in tri-volt coils

Certifications

- Compliant with ANSI/BHMA A156.15 Standards. See individual products for sub sections
- UL/ULC listed
- Listed by California State Fire Marshal

Specifications

All electromagnetic door holder/releases shall be supplied by architectural hardware supplier. All units shall have a single coil to accommodate 12VDC, 24VAC, 24VDC and 120VAC. The coils shall be independently wound, employing a fuse. Armatures will have positive release button.

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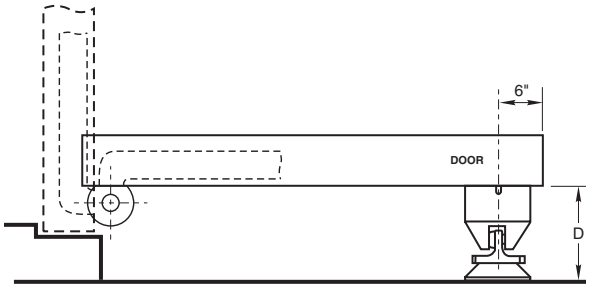
Prior to determining the product you will need to use, begin by looking at the door and perpendicular wall relationship.
- Measure the distance. That will give you the "D" dimension. Select from chart A.

Chart A

If the distance from wall to door is: "D"	Use
7/16" (11)	989
1-13/16" (46)	990M
2-5/8" (67)	997M
3-5/8" (92)	998M
3-3/4" (95)	994M
4-1/8" (105)	996M
4-3/8" (111)	999M
5-1/8" (130)	998M x XK996M
6-5/8" (168) min. distance from wall	980M
6-3/4" distance between doors	981M



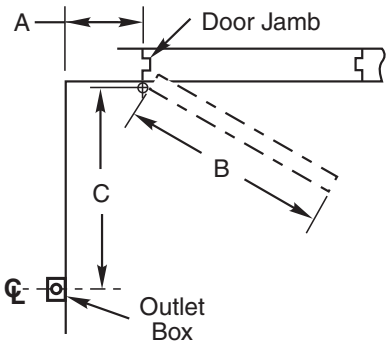
900 base has a minimum: 1-1/2" (38mm) extension. Maximum: 10" using combination of spacers [1/2" (13mm), 3/4" (19mm), etc.] Longer armature projections may encourage abuse and/or the weight of the extended rods will pull off the face of the door.

Chart B

Junction box location should always be as close as possible to the door pull/lever/knob.

A position horizontally farther toward the hinge edge will dramatically lessen the hold open force of the magnet.

A mounting too high on the vertical plane (top of door) will make it more difficult to pull out of hold open.



Refer to Diagram B
- How far is the centerline of the pivot/hinge from the wall? "A" dimension
- What is width of door? "B" dimension
- At what degree is the door opening? If this dimension is more than 100° consult template.
  The armature has a few degrees of adjustment but, before proceeding verify with the product template
- Dimension "C" is from pivot point to junction box centerline

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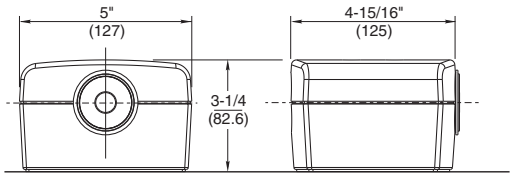
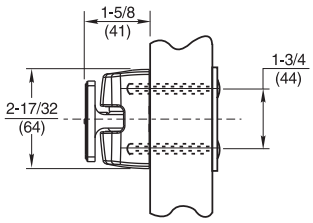
Model 980M

Application
- Floor mount
- Single door
- Shipping weight: 4 lbs. (1.8 kg)

Features
- Concealed wiring
- Total floor space required: 6-5/8" (168mm)
- Mounting requirements: conduit connects directly to floor plate
- 2 year limited warranty





Compliance
- ANSI/C00021

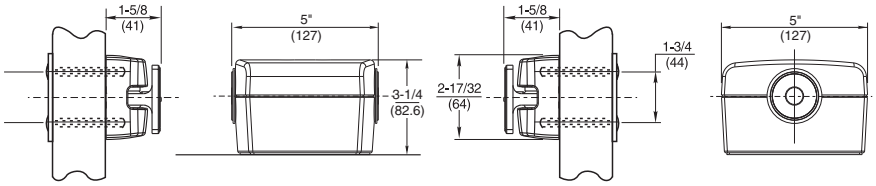
Electrical Data
- Voltage and current:
  120VAC, 60 Hz., .020 amp
  24VAC/DC, 60 Hz., .020 amp
  12VDC, .040 amp

- For 50-55 lbs. of holding force, specify voltage
  120VAC, 60Hz .017 amp
  24VAC, 60Hz .080 amp
  24VDC, .068amp
  12VDC, .180amp
  240VAC, 50/60Hz. .009 amp

Model 981M

Application
- Floor mount
- 2 back-to-back doors
- Shipping weight: 4-3/4 lbs. (2.2 kg)

Features
- Concealed wiring
- Floor space required: 8-1/4" (210mm)
- Mounting requirements: conduit connects directly to floor plate
- 2 year limited warranty



Compliance
- ANSI/C00031

Electrical Data
- Voltage and current:
  120VAC, 60Hz., .040 amp
  24VAC/DC, .040 amp
  12VDC, .080 amp

- For 50-55 lbs. of holding force, specify voltage
  120VAC, 60Hz .034 amp
  24VAC, 60Hz .016 amp
  24VDC, .036 amp
  12VDC, .360 amp
  240VAC, 50/60Hz. .018 amp

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Model 989

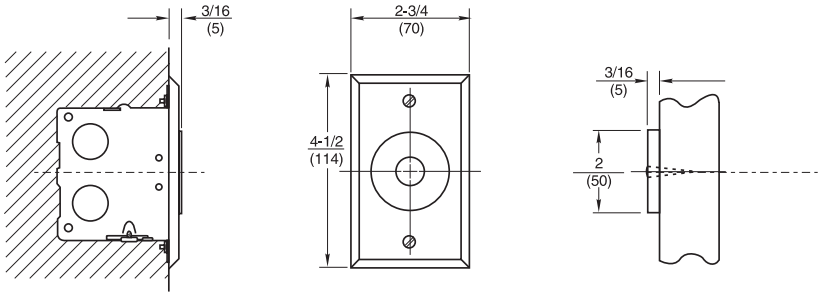
Application
- Wall mount
- Low profile
- Concealed wiring
- Shipping weight: 2 lbs. (0.9 kg)

Features
- Total projection: 7/16" (11mm)
- Mounting requirements: 2" x 4" x 2-1/2" (51 x 102 x 64mm) outlet box
- Wall must be properly reinforced and outlet box adequately fastened
- 2 year limited warranty

Compliance
- ANSI/C00011

Electrical Data
- Voltage and current:
  120VAC, 60Hz., .020 amp
  24VAC/DC, 60Hz., .020 amp
  12VDC, .040 amp

- For 50-55 lbs. of holding force, specify voltage
  120VAC, 60Hz .017 amp
  24VAC, 60Hz .080 amp
  24VDC, .068amp
  12VDC, .180amp
  240VAC, 50/60Hz. .009 amp



Model 990M

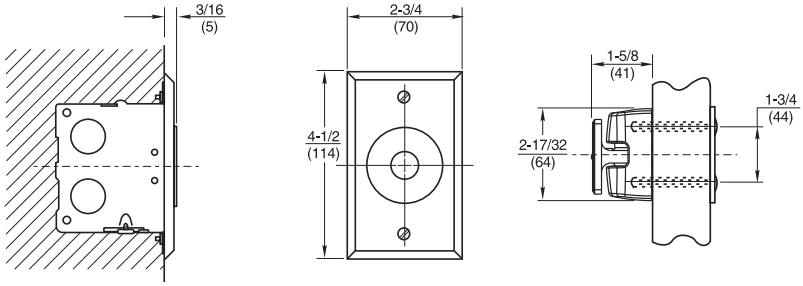
Application
- Wall mount
- Low profile
- Concealed wiring
- Shipping weight: 2 lbs. (0.9 kg)

Features
- Total projection: 1-13/16" (46mm)
- Mounting requirements: 2" x 4" x 2-1/2" (51 x 102 x 64mm) outlet box
- Wall must be properly reinforced and outlet box adequately fastened
- 2 year limited warranty

Compliance
- ANSI/C00011

Electrical Data
- Voltage and current:
  120VAC, 60Hz., .020 amp
  24VAC/DC, 60Hz., .020 amp
  12VDC, .040 amp

- For 50-55 lbs. of holding force, specify voltage
  120VAC, 60Hz .017 amp
  24VAC, 60Hz .080 amp
  24VDC, .068amp
  12VDC, .180amp
  240VAC, 50/60Hz. .009 amp



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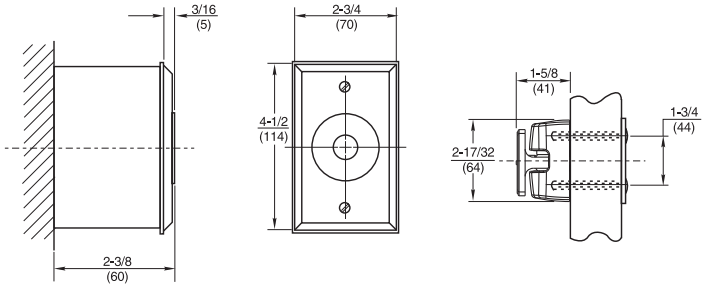
Model 991M

Application
- Wall mount
- Surface wiring
- Hazardous locations
- Shipping weight: 3 lbs. (1.4 kg)

Features
- Total projection: 4" (101mm)
- Approved for class I division 2, class II division 2, groups F and G and class III locations
- Unit includes a sealed surface-mounted junction box
- 2 year limited warranty

Compliance
- ANSI/C00011

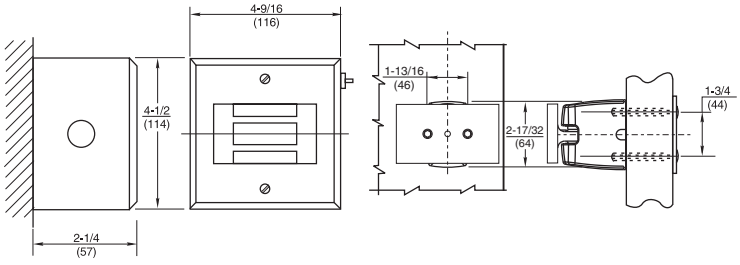
Electrical Data
- Voltage and current:
  120VAC, 60Hz., .017 amp
  24VAC, .080 amp
  12VAC, .180 amp
  24VDC, .068 amp
  240VAC, 50/60Hz., .009 amp



Model 993M

Application
- High hold
- Surface or concealed mounting
- Floor or wall application
- Shipping weight: 3 lbs. (1.4 kg)

Features
- 300 lb. holding force
- Total projection: 5-1/4" (133mm)
- Switch box included 4-1/2" x 4-9/16" x 2-5/16" (114 x 116 x 59mm) deep
- Armature plate thru-bolted to maintain consistent contact with magnet
- Adjusting screw on special heavy-duty armature allows for alignment of contact plate
- 9930M Floor mount available
- Unit has test switch – may be ordered without switch if door will be pulled out of hold open very often
- Use key switch to release (by others)
- Substantial wall reinforcement required
- 2 year limited warranty



Electrical Data
- Voltage and current: 24VAC/DC .25 amp

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Model 994M

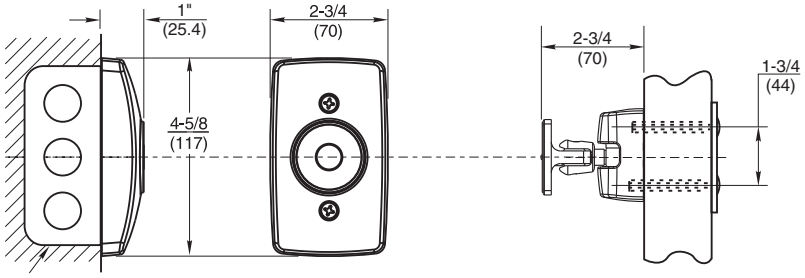
Application
- Wall mount
- Adjustable armature
- Concealed wiring
- Shipping weight: 2 lbs. (0.9 kg)

Features
- Total projection: 3-3/4" (95mm)
- Adjustable armature rotation up and down, back and forth for better alignment.
- Cannot be use with 900 base or spacers.
- Can be used without adjustment piece making it a model 997
- Mounting requirements: 2" x 4" x 2-1/2" (51 x 102 x 64mm) outlet box
- Wall must be properly reinforced and outlet box adequately fastened
- 2 year limited warranty

Compliance
- ANSI/C00011

Electrical Data
- Voltage and current:
  120VAC, 60Hz., .020 amp
  24VAC/DC, 60Hz., .020 amp
  12VDC, .040 amp

- For 50-55 lbs. of holding force, specify voltage
  120VAC, 60Hz .017 amp
  24VAC, 60Hz .080 amp
  24VDC, .068amp
  12VDC, .180amp
  240VAC, 50/60Hz. .009 amp



Model 996M

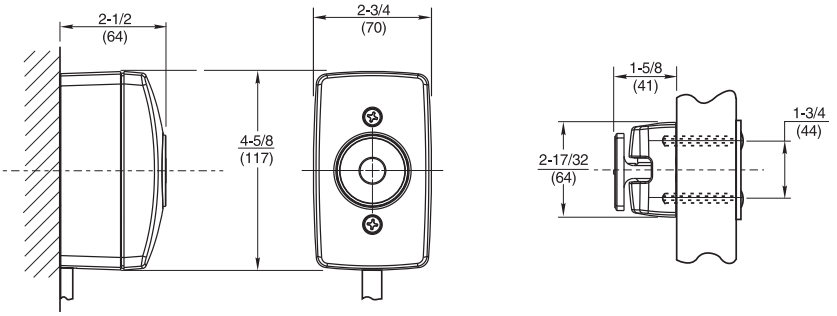
Application
- Wall mount
- Surface wiring
- Shipping weight: 3 lbs. (1.4 kg)

Features
- Total projection: 4-1/8" (105mm)
- Mounting requirements: 1-1/2" (38mm) deep adapter housing
- Wall must be properly reinforced
- 2 year limited warranty

Compliance
- ANSI/C00011

Electrical Data
- Voltage and current:
  120VAC, 60Hz., .020 amp
  24VAC/DC, 60Hz., .020 amp
  12VDC, .040 amp

- For 50-55 lbs. of holding force, specify voltage
  120VAC, 60Hz .017 amp
  24VAC, 60Hz .080 amp
  24VDC, .068amp
  12VDC, .180amp
  240VAC, 50/60Hz. .009 amp



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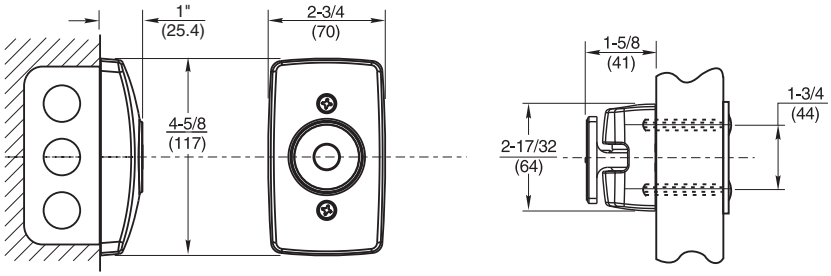
Model 997M

Application
- Wall mount
- Concealed wiring
- Shipping weight: 2 lbs. (0.9 kg)

Features
- Total projection: 2-5/8" (67mm)
- Mounting requirements: 2" x 4" x 1-3/4" (51 x 102 x 45mm) outlet box
- Wall must be properly reinforced and outlet box adequately fastened
- 2 year limited warranty

Compliance
- ANSI/C00011

Electrical Data
- Voltage and current:
  120VAC, 60Hz., .020 amp
  24VAC/DC, 60Hz., .020 amp
  12VDC, .040 amp
- For 50-55 lbs. of holding force, specify voltage
  120VAC, 60Hz .017 amp
  24VAC, 60Hz .080 amp
  24VDC, .068amp
  12VDC, .180amp
  240VAC, 50/60Hz. .009 amp



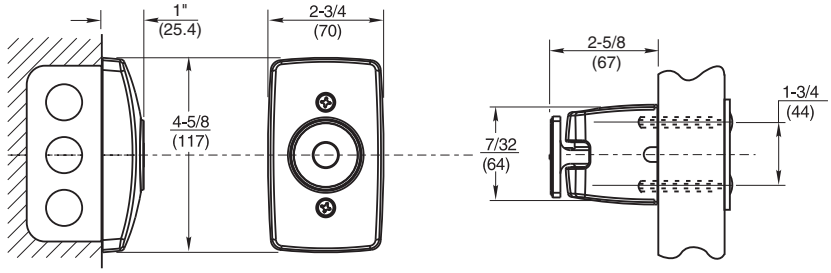
Model 998M

Application
- Wall mount
- Concealed wiring
- Shipping weight: 2-1/2 lbs. (1.1 kg)

Features
- Total projection: 3-5/8" (92mm)
- Mounting requirements: 2" x 4" x 1-3/4" (51 x 102 x 45mm) outlet box
- Wall must be properly reinforced and outlet box adequately fastened
- 2 year limited warranty

Compliance
- ANSI/C00011

Electrical Data
- Voltage and current:
  120VAC, 60Hz., .020 amp
  24VAC/DC, 60Hz., .020 amp
  12VDC, .040 amp
- For 50-55 lbs. of holding force, specify voltage
  120VAC, 60Hz .017 amp
  24VAC, 60Hz .080 amp
  24VDC, .068amp
  12VDC, .180amp
  240VAC, 50/60Hz. .009 amp



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Model 999M

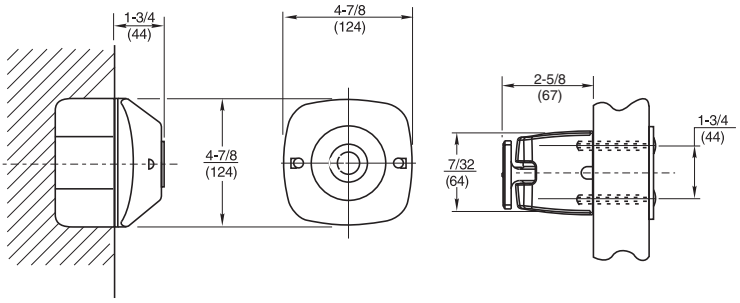
Application
- Universal mounting
- Shipping weight: 2-3/4 lbs. (1.2 kg)

Features
- Base plate; concealed wiring
- Total projection: 4-3/8" (111mm)
- Mounting requirements: 2" x 4" (51 x 102mm) outlet box; 4" (102mm) square box; 4" (102mm) octagonal box
- Wall must be properly reinforced and outlet box adequately fastened
- 2 year limited warranty

Compliance
- ANSI/C00011

Electrical Data
- Voltage and current:
  120 VAC, 60 Hz., .020 amp
  24 VAC/DC, 60 Hz., .020 amp
  12 VDC, .040 amp

- For 50-55 lbs. of holding force, specify voltage
  120VAC, 60Hz .017 amp
  24VAC, 60Hz .080 amp
  24VDC, .068amp
  12VDC, .180amp
  240VAC, 50/60Hz. .009 amp



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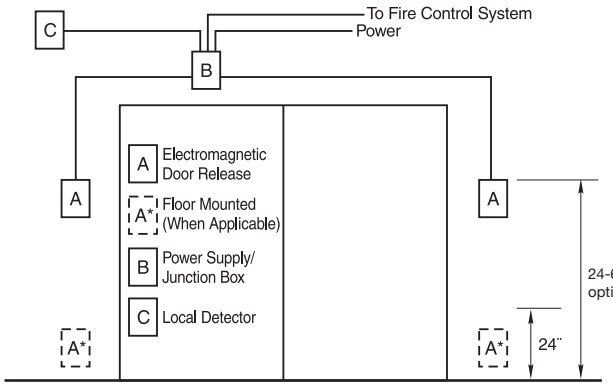
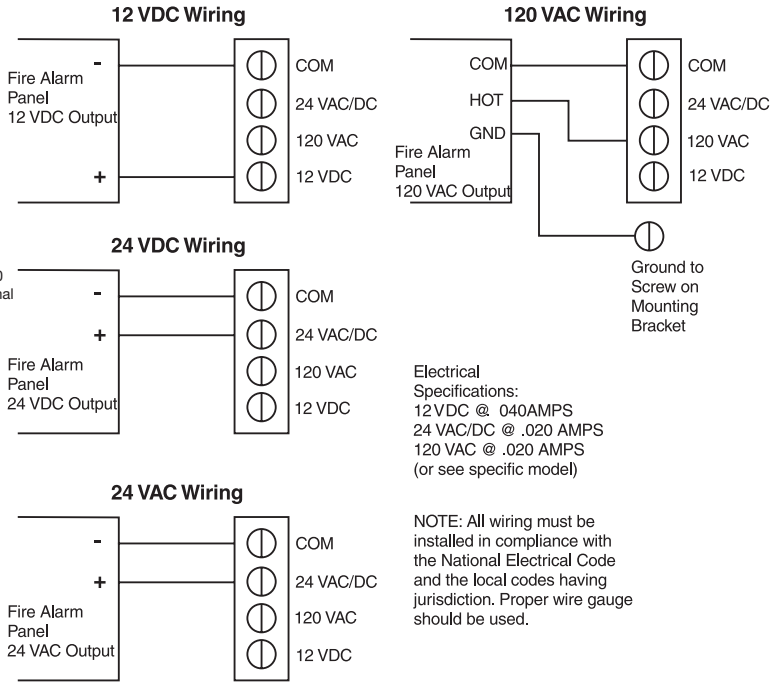
Schematics





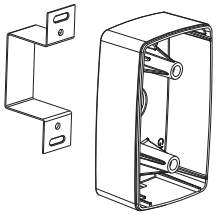
Electrical Specifications:
12 VDC @ 040AMPS
24 VAC/DC @ .020 AMPS
120 VAC @ .020 AMPS
(or see specific model)

NOTE: All wiring must be installed in compliance with the National Electrical Code and the local codes having jurisdiction. Proper wire gauge should be used.

Operation Narrative

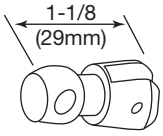
Doors are to be normally held open. The electromagnetic door releases will be energized with the voltage shown (at right) in the hardware set for this opening. Power shall be controlled by the fire control system. It will interrupt the power if alarmed, causing the doors to be released, thus allowing the door closers to close the doors. When power is restored the magnets will re-energize, permitting the doors to be manually returned to their held open position.

Accessories

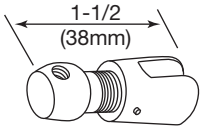


1-1/2" (38mm) Extension (for use only with Models 997M, 998M & 994M) Mounts behind wall cover.

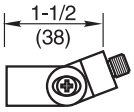
XK996M
Part# 996631M-*



994M Swivel Armature (cannot be used with extension spacers)
Part# 900-3

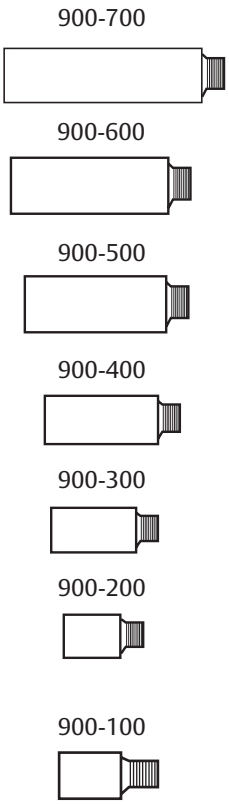


Base Unit Armature Extension Mounts between armature and contact plate.
Part# 900
Cannot be used with model 994M

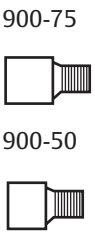


Armature Extension 90° Bend
Part# 900-Z
Must be used with 900 base unit. Those two pieces will extend armature 3" longer than the contact plate.

Spacer lengths – must be used with 900 base



For dimensions, see chart below



Extension pieces must be used in conjunction with 900 Base Unit

Part# 900-700 = 7"
Part #900-600 = 6"
Part# 900-500 = 5"
Part# 900-400 = 4"
Part# 900-300 = 3"
Part# 900-200 = 2"
Part# 900-100 = 1"
Part# 900-75 = 3/4"
Part# 900-50 = 1/2"

*specify finish

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Model 972

The Rixson® 972 Industrial Door Release is listed by Underwriters' Laboratories as a substitute for fusible links in such applications as overhead rolling doors, guillotine doors, fire dampers and self-closing windows. These heavy-duty units provide automatic release when triggered by a smoke detector, manual pull station, test button on unit, or other electrically operated switch.

Application
- 972H for swinging doors
- 972S for sliding doors
- 972U for overhead doors
- Specify model number and voltage

Features
- Shipping weight: 5 lbs. (2.3 kg)
- 2 year limited warranty

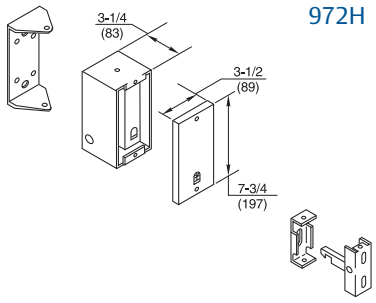
Compliance
- ANSI/C00041

Electrical Data
- Voltage and current:
  120VAC, 60Hz., .150 amp
  24VAC, 60Hz., .150 amp
  24VDC, .08 amp
  12VDC, .08 amp
- Holding force 75 lbs

Code Listings:
- Underwriters' Laboratories, Inc.
- Underwriters' Laboratories of Canada
- State of California (3550-047:13)

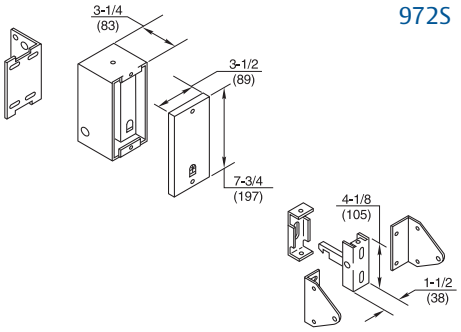
972H for Swinging Doors

972H



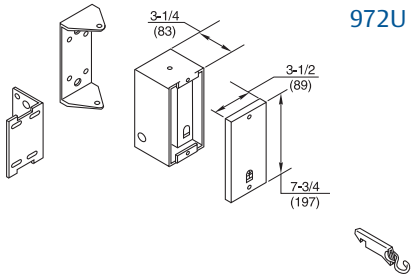
972S for Sliding Doors

972S



972U for Overhead Doors

972U



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998M
Series

980M	Floor Mounted
981M	Floor Mounted Back to Back Doors
989	Low Projection Wall Mounted
990M	Low Projection Wall Mounted
991M	Hazardous Location Wall Mounted
993M	High Hold Wall Mounted
9930M	High Hold Floor Mounted
994M	Wall Mounted Adjustable Armature
996M	Surface Mounted
997M	Wall Mounted
998M	Wall Mounted
999M	Universal Wall Mounted
972H	Industrial Swing Door Holder
972S	Industrial Sliding Door Holder
972U	Industrial Overhead/Rolling Door

120VAC
Voltage

BLANK	TRI-VOLT
24VAC/DC	*24VAC/DC
12VDC	*12VDC
12VAC	*120VAC 120VAC
*240VAC	
240VAC	

689
Finish

689	Sprayed Alum
690	Sprayed Dk Bronze
691	Sprayed Lt Bronze
693	Sprayed Black
696	Sprayed Brass
BSP	Black Suede Powder
WSP	White Suede Powder

* *When voltage is specified, these electromagnetic door holder/releases will have 50-55 lbs. of holding force.*

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Used With Model 980M/981M

Floor Portion

(A) Magnet Housing Cover
980311M-* / 981311M-*

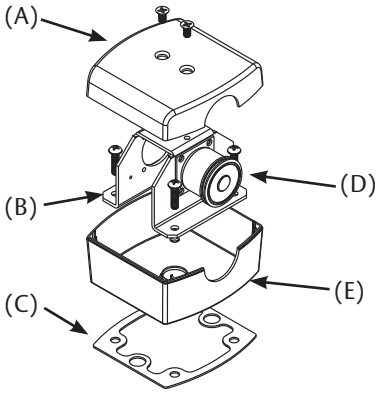
(B) Magnet Support Bracket
981309

(C) Gasket
980095M

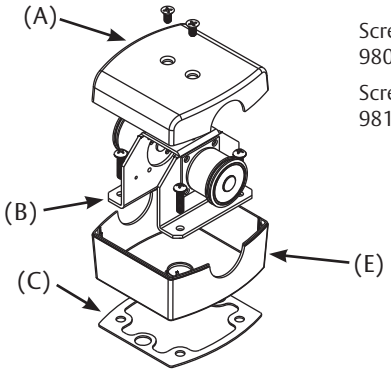
(D) Magnet
**996219-3V

(E) Magnet Housing Base
980312M-* / 981312M-*

***For voltages other than (tri-volt 12 VDC, 24 VAC, 24 VDC, and 120 VAC), contact factory for electromagnet assembly part number.*



980M



981M

Screw Kits

Screw Kit for 980M
980328-*

Screw Kit for 981M
981328-*

Used With Model 980M/981M, 990M, 991M, 996M, 997M

Door Portion

(A) **Backup Plate
900314

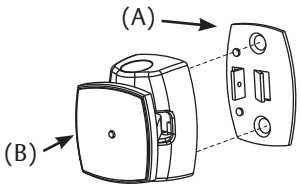
(B) Door Armature
997510M-*

(C) **Door Plate*
998009

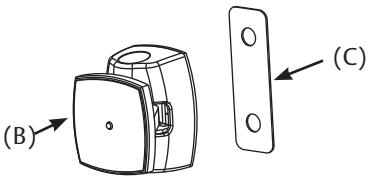
***Not Sold Separately – See Screw Kit*

**specify finish*

Door portion screws included with Wall/Floor parts.



Surface Applied Concealed Mounting
Recommended for Solid Wood Doors Only



Thru Bolt Mounting
Recommended for Hollow Metal, Hollow Core or Composite Type Wood Doors

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Used With Model 990M, 989

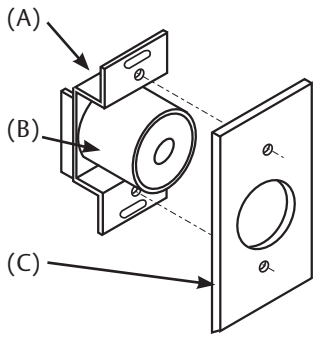
Wall Portion

(A) Magnet Bracket
990002

(B) Magnet
**996219-3V

(C) Wall Cover Plate
990001

***For voltages other than (tri-volt 12 VDC, 24 VAC, 24 VDC, and 120 VAC), contact factory for magnet mounting bracket assembly part number.*



Screw Kits
Screw Kit for 990M
990300-*

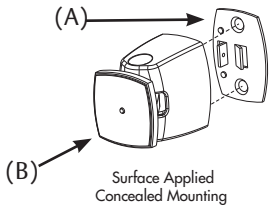
Used With Model 998M, 999M

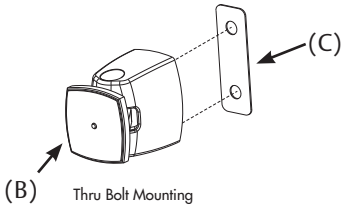
Door Portion

(A) Backup Plate
900314

(B) Door Armature
998512M-*

(C) Door Plate
998009





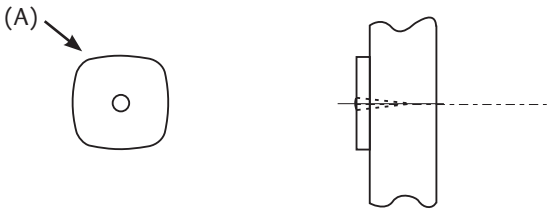
Screw Kits
See Screw Kit for 998M
998303-*

**specify finish*
Door portion screws included with Wall/Floor parts.

Used With Model 989

Door Portion

(A) Door Armature
Attachment screw
included in Kit.
444FM



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Used With Model 994M

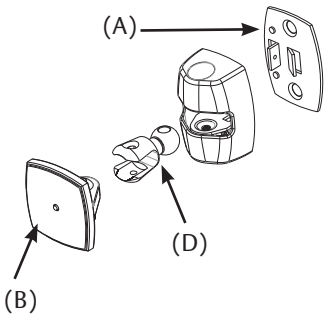
Door Portion

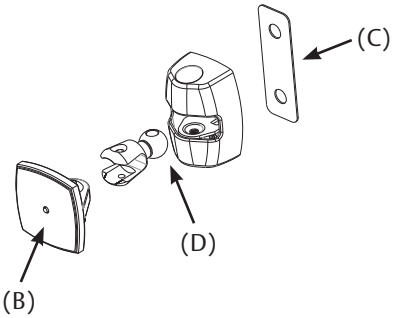
(A) **Backup Plate
900314

(B) Adjustable Armature
994510M-*

(C) **Door Plate
998009

(D) Adjustment Piece
900-3*





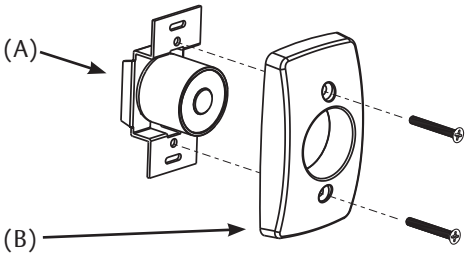
***Not Sold Separately – See Screw Kit*
**specify finish*
Door portion screws included with Wall/Floor parts.

Used With Model 994M, 997M, 998M

Wall Portion

(A) Magnet Assembly and Bracket
**998369-3V

(B) Cover
998315M-*



***For voltages other than (tri-volt 12 VDC, 24 VAC, 24 VDC, and 120 VAC), contact factory for magnet mounting bracket assembly part number.*

*specify finish

Screw Kits
Screw Kit for
994M/997M
998300-*

Screw Kits
Screw Kit for
998M
998303-*

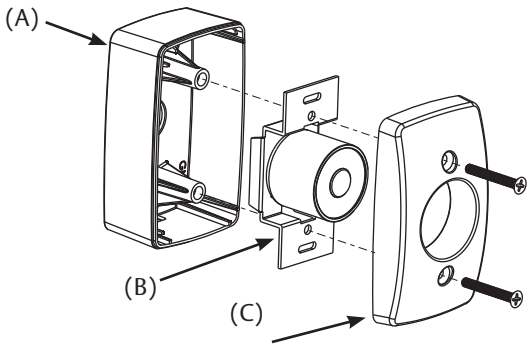
Used With Model 996M

Wall Portion

(A) Surface Mounting Box Housing
996501M-*

(B) Magnet Assembly and Bracket
**996369-3V

(C) Cover
998315M-*



**specify finish*

***For voltages other than (tri-volt 12 VDC, 24 VAC, 24 VDC, and 120 VAC), contact factory for magnet mounting bracket assembly part number.*

Screw Kits
Screw Kit for 996M
996325-*

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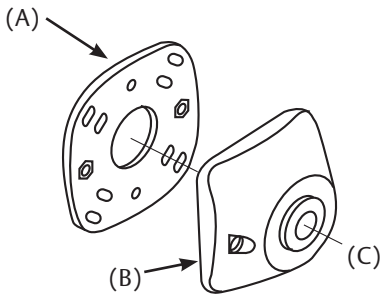
Used With Model 999M

Wall Portion

(A Base Plate
999105

(B) Cover
999055-*

(C) Magnet
**996219-3V



*specify finish

**For voltages other than (tri-volt 12 VDC, 24 VAC, 24 VDC, and 120 VAC), contact factory for magnet mounting bracket assembly part number.

Screw Kits

Screw Kit for 999M
999318-*

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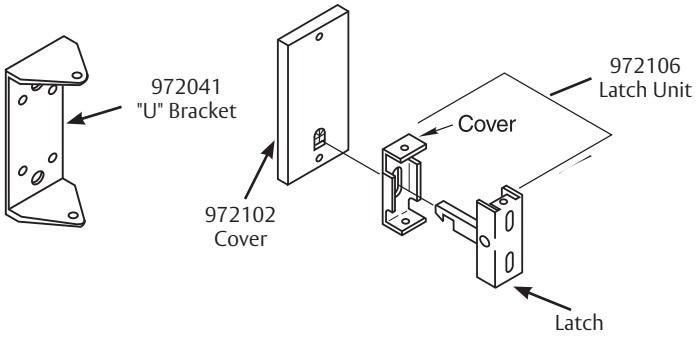
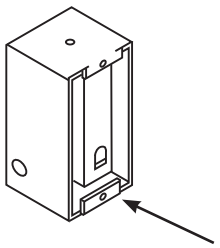
Used With Model 972H

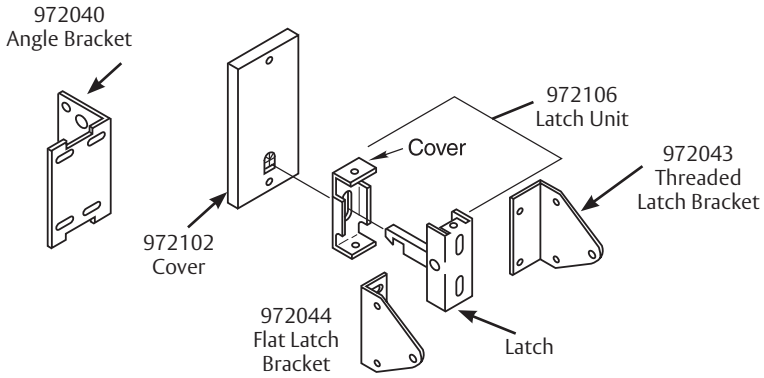


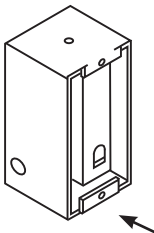


Screw Kit for 972H:
972190

Box
972100–12 VDC
972112–24 VAC
972118–120 VAC
972120–24 VDC

Used With Model 972S

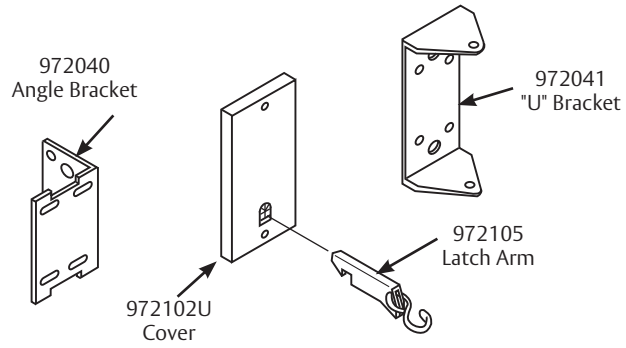


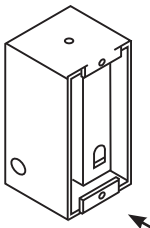


Screw Kit for 972S:
972290

Box
972100–12 VDC
972112–24 VAC
972118–120 VAC
972120–24 VDC

Used With Model 972U





Screw Kit for 972U:
972390

Box
972100–12 VDC
972112–24 VAC
972118–120 VAC
972120–24 VDC

**specify finish*

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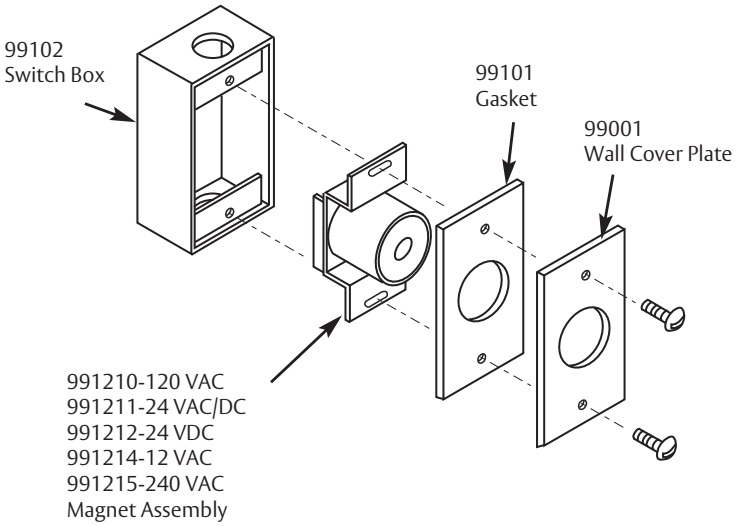
Used With Model 991M

Wall Portion

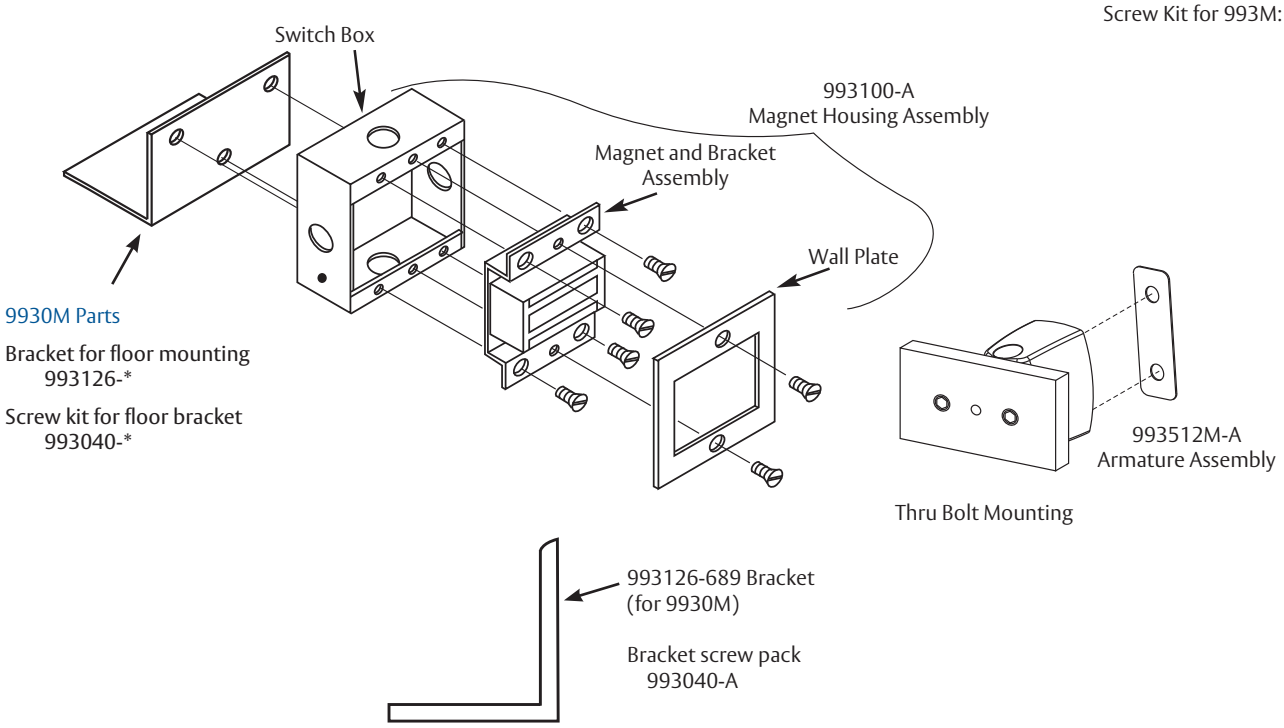


Screw Kit for 991M: 990300-*

**specify finish*

Used With Model 993M/9930M

Screw Kit for 993M: 993300-A



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Vaughan, Ontario, L4K 4T9 Canada
Tel: 800-461-3007
Fax: 800-461-8989

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

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