

ASSA ABLOY, the global leader in door opening solutions



ELECTROMAGNETIC DOOR HOLDER/RELEASES

Designed for remote door release applications

Copyright © 2001-2018, ASSA ABLOY Accessories and Door Controls Group, Inc., an ASSA ABLOY Group company. All rights reserved. Reproduction in whole or in part without the express written permission of ASSA ABLOY Accessories and Door Controls Group, Inc. is prohibited.

TABLE OF CONTENTS

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.



Table of Contents

How to Select Product	
Specifications	,
Specifications	ے
980M Floor Mounted	
981M Floor Mounted Back to Back Doors	5
989, 990M Low Projection Wall Mounted	e
991M Hazardous Location Wall Mounted	
993M High Hold Wall Mounted	7
9930M High Hold Floor Mounted	7
994M Wall Mounted Adjustable Armature996M Surface Mounted	8
996M Surface Mounted	
997M, 998M Wall Mounted	
999M Universal Wall Mounted	10
333W Offiversal Wall Mounted	I C
Wiring Schematics	11
Willing Schematics	I 1
Accessories	1.1
Accessories	1
972H Industrial Swinging Door	12
972S Industrial Sliding Door	12
972U Industrial Overhead Door	12
How to Order	13
Parts List	14-19



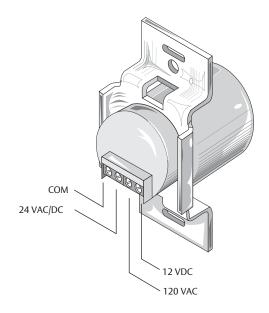
General Information

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 🛮 💩 రీ రీ రీ
- 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.



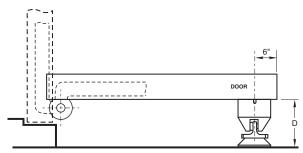
HOW TO SELECT PRODUCT

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



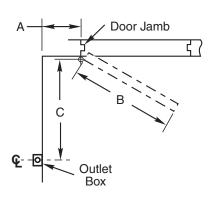
900 base has a minimum: 1-1/2" (38mm) extension. Maximum: 10" using combination of spacers [1/2" (13mm), 3/4" (19mm), etc.] Longer armature projections may encourage abuse and/or the weight of the extended rods will pull off the face of the door.

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



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:

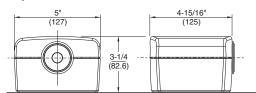
120VAC, 60 Hz., .020 amp ۉۉۉۉ 24VAC/DC, 60 Hz., .020 amp 12VDC, .040 amp

- For 50-55 lbs. of holding force, specify voltage 120VAC, 60Hz .017 amp

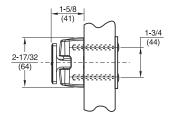
24VAC, 60Hz .080 amp 24VDC, .068amp

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

<u> ảయీయీయ</u>

- 2 year limited warranty

Compliance

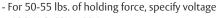
- ANSI/C00031

Electrical Data

- Voltage and current:

120VAC, 60Hz., .040 amp 24VAC/DC, .040 amp

12VDC, .080 amp



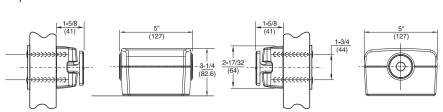
120VAC, 60Hz .034 amp

24VAC, 60Hz .016 amp

24VDC, .036 amp

12VDC, .360 amp







WALL MOUNTED

Application

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

Features

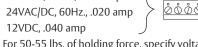
- Total projection: 7/16" (11mm)
- Mounting requirements: 2" x 4" x 2-1/2" (51 x 102 x 64mm) outlet box
- Wall must be properly reinforced and outlet box adequately fastened
- 2 year limited warranty

Compliance

- ANSI/C00011

Electrical Data

- Voltage and current: 120VAC, 60Hz., .020 amp



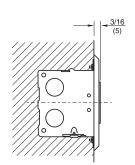
- For 50-55 lbs. of holding force, specify voltage 120VAC, 60Hz .017 amp

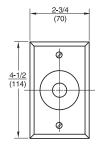
24VAC, 60Hz .080 amp

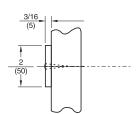
24VDC, .068amp

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



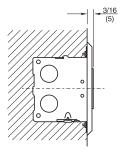
- For 50-55 lbs. of holding force, specify voltage

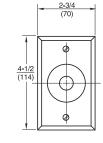
120VAC, 60Hz .017 amp

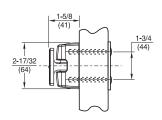
24VAC, 60Hz .080 amp

24VDC, .068amp

12VDC, .180amp











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:

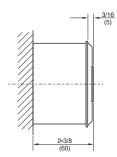
120VAC, 60Hz., .017 amp

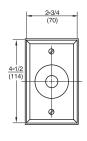
24VAC, .080 amp

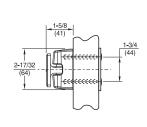
12VAC, .180 amp

24VDC, .068 amp

240VAC, 50/60Hz., .009 amp







Model 993M

Application

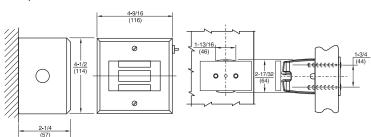
- High hold
- Surface or concealed mounting
- Floor or wall application
- Shipping weight: 3 lbs. (1.4 kg)

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





WALL MOUNTED

Application

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

Features

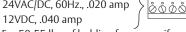
- Total projection: 3-3/4" (95mm)
- Adjustable armature rotation up and down, back and forth for better alignment.
- Cannot be use with 900 base or spacers.
- Can be used without adjustment piece making it a model 997
- Mounting requirements: 2" x 4" x 2-1/2" (51 x 102 x 64mm) outlet box
- Wall must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



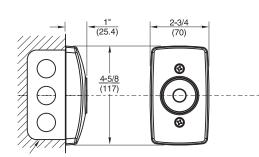
- For 50-55 lbs. of holding force, specify voltage 120VAC, 60Hz .017 amp

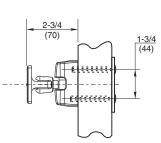
24VAC, 60Hz .080 amp

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



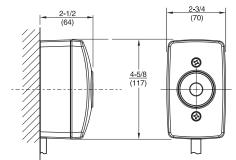
24VAC, 60Hz .080 amp

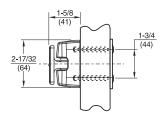
24VDC, .068amp

12VDC, .180amp











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

0000

- 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

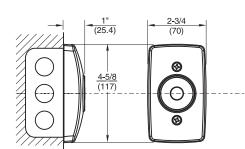
120VAC, 60Hz .017 amp

24VAC, 60Hz .080 amp

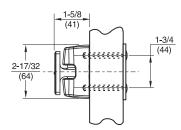
24VDC, .068amp

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

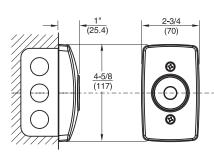
- For 50-55 lbs. of holding force, specify voltage

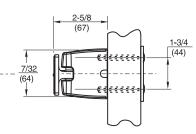
120VAC, 60Hz .017 amp 24VAC, 60Hz .080 amp

24VDC, .068amp

12VDC, .180amp











WALL MOUNTED

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 $\,$

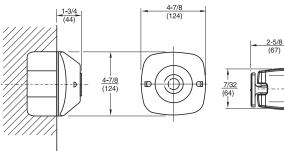
120VAC, 60Hz .017 amp

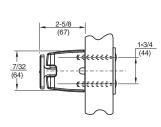
24VAC, 60Hz .080 amp

24VDC, .068amp

12VDC, .180amp

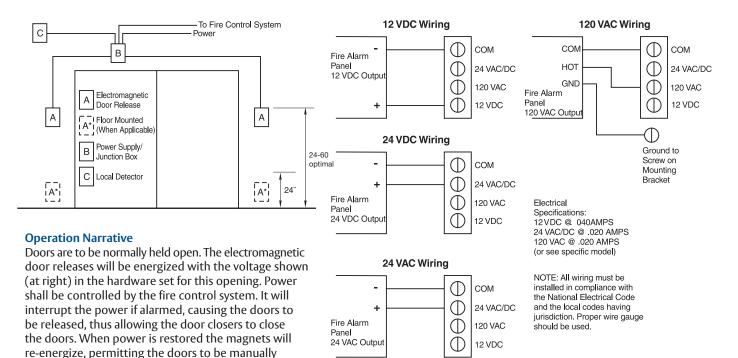






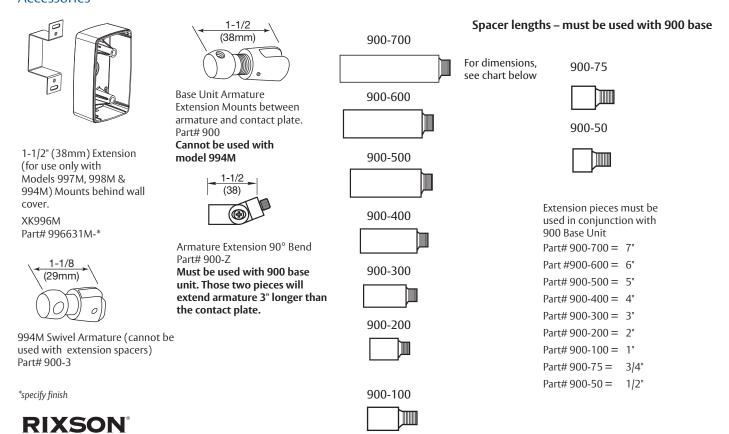


Schematics



Accessories

returned to their held open position.



ASSA ABLOY

INDUSTRIAL USE

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

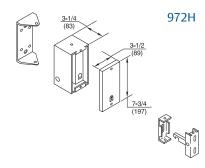
- Voltage and current:
 120VAC, 60Hz., .150 amp
 24VAC, 60Hz., .150 amp
 24VDC, .08 amp
 12VDC, .08 amp
- Holding force 75 lbs

Code Listings:

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

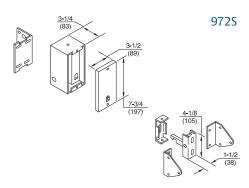
972H for Swinging Doors





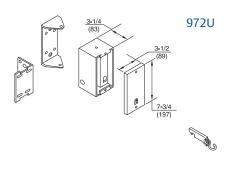
972S for Sliding Doors





972U for Overhead Doors







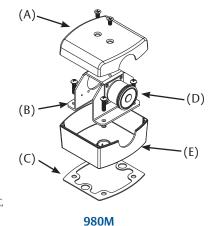
998N Series			120VAC Voltage		689 Finish
					:
989 Low Projection N 990M Low Projection N 991M Hazardous Locat 993M High Hold Wall I 9930M High Hold Floor	Vall Mounted On Wall Mounted Mounted Mounted Ijustable Armature Ounted Door Holder Door Holder	BLANK 24VAC/DC 12VDC 12VAC *240VAC 240VAC		689 690 691 693 696 BSP ge is specified, these elsses will have 50-55 lbs	

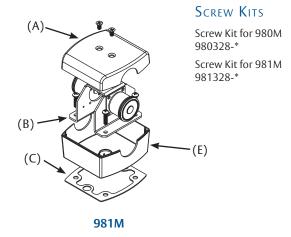


Floor Portion

- (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.





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

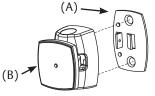
Door Portion

- (A) **Backup Plate 900314
- (B) Door Armature 997510M-*
- (C) **Door Plate* 998009

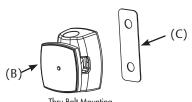
**Not Sold Separately – See Screw Kit

*specify finish

Door portion screws included with Wall/Floor parts.



Surface Applied Concealed Mounting Recommended for Solid Wood Doors Only



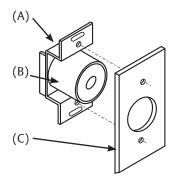
Thru Bolt Mounting Recommended for Hollow Metal, Hollow Core or Composite Type Wood Doors



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.

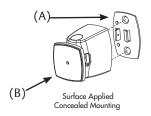


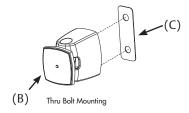
SCREW KITS Screw Kit for 990M 990300-*

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

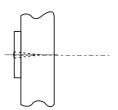
 $Door\ portion\ screws\ included\ with\ Wall/Floor\ parts.$

Used With Model 989

Door Portion

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



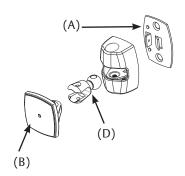


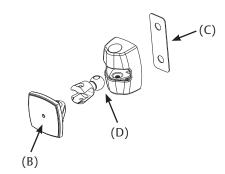


Door Portion

- (A) **Backup Plate 900314
- (B) Adjustable Armature 994510M-*
- (C) **Door Plate 998009
- (D) Adjustment Piece 900-3*

Door portion screws included with Wall/Floor parts.





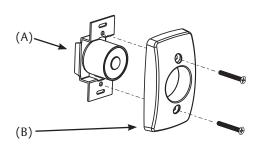
Used With Model 994M, 997M, 998M

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

Screw Kit for 998M 998303-*

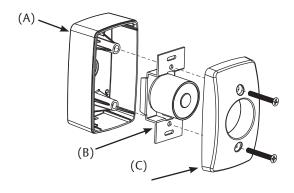
Used With Model 996M

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-*

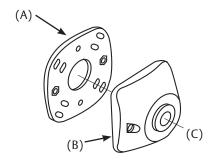


^{**}Not Sold Separately – See Screw Kit

^{*}specify finish

Wall Portion

- (A Base Plate 999105
- (B) Cover 999055-*
- (C) Magnet **996219-3V



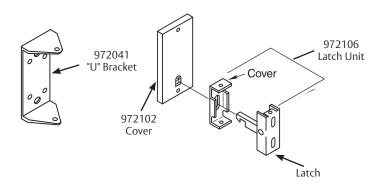
SCREW KITS Screw Kit for 999M 999318-*

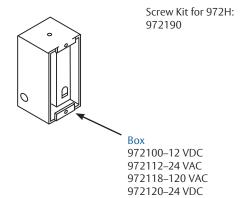
*specify finish

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

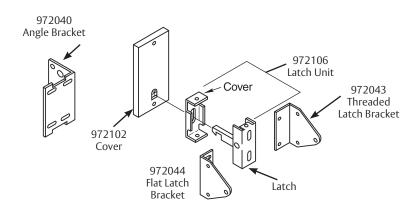


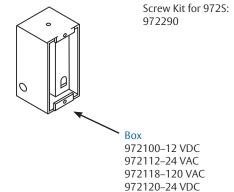
Used With Model 972H



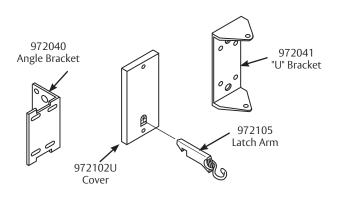


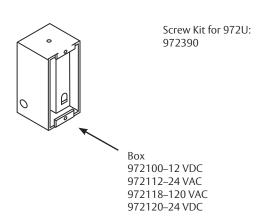
Used With Model 972S





Used With Model 972U

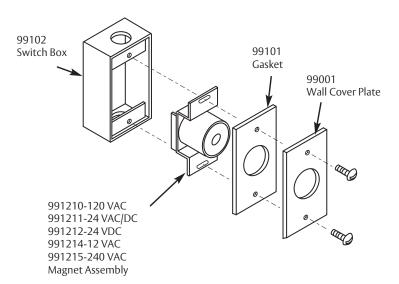




*specify finish

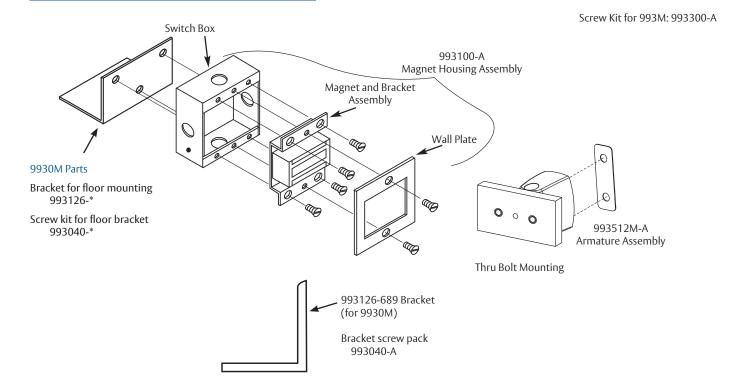


Wall Portion



Screw Kit for 991M: 990300-*
*specify finish

Used With Model 993M/9930M





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



CONTACT US AT:

Rixson® 3000 Highway 74 East Monroe, NC 28112 Tel: 800-457-5670 Fax: 800-221-0489

ASSA ABLOY Door Security Solutions Canada 160 Four Valley Drive 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