ELECTROMAGNETIC DOOR HOLDER/RELEASES
FLOOR MOUNTED

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/CO0021

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
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.
ELECTROMAGNETIC DOOR HOLDER/RELEASES
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.
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**

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

**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