Electrical Data Sheet

This product is an electromagnetic holding device intended for use in fire door applications, but can be used for other magnetic applications. Wire into proper terminals as noted below.

Please read instructions carefully!

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<th>SERIES</th>
<th>VOLTAGE</th>
<th>DC/mA</th>
<th>DC/VA</th>
<th>AC/mA</th>
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Wiring for 24 VAC

Wiring for 24 VDC

Wiring for 120 VAC

Wiring for 12 VDC

CAUTION
Do not leave wire exposed

See wiring diagrams to the right for your application

Cover screws

Cover assembly

Mounting base

Gasket

Illustration 1-1

Door armature

Floor mounted electromagnetic door holder

Illustration 1-2

Electromagnetic Door Holder
Model 2802
Step #1 Locations of Magnet Box:
1-1 Find the following:
   1. Pivot point of door
   2. Door Width (Inches)
   3. Maximum degree of door opening permitted by door opener.
      (Note trim and partition clearance needed)
1-2 Determine arc length by subtracting 5 5/8" from width of door.
   Example: If door is 36"
   Width of door 36"
   Subtract 5 5/8"
   Arc Length = 30 3/8"
1-3 Strike arc lengths from pivot points of doors. Conduit should be
   located at intersection of arcs (See drawing below)
1-4 8 1/4" minimum space required between pull sides of doors for
   full 90 deg opening. Maximum door opening 130 deg.

Step #2 Installation of Wall Magnet Box:
2-1 Locate magnet assembly on pull side of door near bottom rail
    Approximately 8" from lock edge using floor mounting base as template. See illustration below.
2-2 Using the marked locations, drill mounting holes in floor for 5/8"
    floor anchors.
2-3 Mount magnet base to floor using 5/8" anchors and screws.
2-4 For detail on electrical wiring, read the specific “Electrical Data Sheet”
    at the end of this documentation.
   IMPORTANT: Check that power voltage equals voltage labeled
    on back of magnet.

Step #2 Continued:
2-5 Position cover gasket on base.
2-6 Assemble cover to base plate using provided mounting screws.

Step #3 Installation of door armature hardware:
3-1 With the magnet box securely fastened, aligned and energized, place
    and center the door armature on the surface of the magnet with the two holes
    of the base aligned either vertically or horizontally.
3-2 Gently close the door and adjust the angle of the door armature so the
    base lays flat against the door.
3-3 While keeping slight pressure on the door, mark location of door
    armature through the two base holes. The two marks should be 1 3/4" apart
    and the center line of the door armature should be approximately 6" from
    the lock edge of the door.
3-4 Depending of the mounting option that you choose:
   For concealed Mounting
   Drill a 1/2" deep hole where the two marks are located with a 1/16" diameter drill
   as pilot holes for wood screws. In reinforced metal door, drill & tap for #10-32 screw
   OR:
   For through bolt Mounting
   Drill through the door where the two marks are located with a 5/16" drill.
3-5 Mount the door armature on the door:
   For concealed Mounting
   Use two #10 pan head phillips wood screws or two #10-32 screws
   depending on type of door (See step 3-4)
   OR:
   For through bolt Mounting
   Use two #10-32 screws with two #10-32 x 1 1/4" sex bolt.

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