# Architectural Door Accessories

ASSA ABLOY

## McKinney "MM" Magnetic Monitoring Hinge

The global leader in door opening solutions

***NOTE: Door and frame should be prepared per the proper Hinge Template before beginning to assemble the "MM" Hinge to them. Templates can be downloaded, if desired, from our website at www.mckinneyhinge.com. If the hinge has more than (1) electrical option a separate install ation instruction will be packed for each one.***

SWITCH TYPE:

SPDT Magnetic Reed Switch with color coded wire leads. Use white (common) and red wires to make a circuit when the door is opened. Use white (common) and green wires to break a circuit when the door is opened.

SWITCH CAPACITY:

| Voltage | Resistive or inductive load |
|---|---|
| 6 | .25 amps |
| 12 | .25 amps |
| 24 | .125 amps |
| 48 | .062 amps |

LOCATION:

The Magnetic Monotoring hinge should be mounted in the second position from the bottom on the door.

INSTALLATION:

3 and 5 knuckle hinges are not handed. 2 knuckle hinges are handed. Make sure that the proper hand hinge is being used for the application if it is a 2 knuckle hinge.

**IMPORTANT: The gap between the butt edge of the door and the jamb must not exceed 3/16". (See Fig. III)**

Connect the **Switch** wires as required by the individual application (see above under SWITCH TYPE) and insert the **Switch** into the jamb. DO NOT STRIKE the face of the **Switch** at any time.

The **Magnet Assembly** can be pressed into the hole in the door and lightly tapped into place using a piece of wood as a striking block. DO NOT STRIKE th face directly with a hammer as it could damage the threads making adjustment impossible.

With the **Switch** and **Magnet Assembly** in place, mount the specially prepared hinge in a normal manner. DO NOT ATTEMPT to use any hinge other than ones prepared specifically for this installation. Install only (1) of the inboard screws (nearest to the hinge barrel) in the door leaf.

ADJUSTMENT FOR (2) OPERATING CIRCUITS:

The **Magnet Assembly** is factory pre-set for maximum magnetic influence. This is done to insure that both circuits will operate in the most extreem application, an all steel door and frame. This magnet setting may result in greater door travel than desired to operate the monitoring system in some applications, particularly in all wood construction. The door travel at the lock side can be decreased by first removing the door leaf screw and swinging the hinge leaf clear. Insert the **Spanner Tool** provided into the slots and turn clockwise to decrease the magnetic influence and hasten switch action. (See Fig II)

If the normally closed (supervisory) circuit fails to go on when the door is closed, the **Magnet** has been turned in too far and must be adjusted out (counter-clockwise) until the circuit is made.

ADJUSTMENT FOR (1) OPERATING CIRCUIT:

In an application where only one of the two switch circuits is used, connect the monitoring system to the desired circuit (normally open or normally closed) and adjust, if necessary as described above.

**NOTE:** On some installations where there is an insufficient press fit, it may be necessary to hold the Magnet Assembly with a pair of pliers while making adjustments.

Several adjustments in this manner may be necessary until the desired door opening can be monitored. After the final adjustment has been made, install the remaining screws in the door.

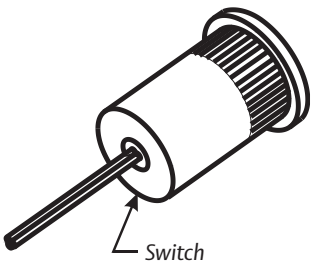



**Figure I**

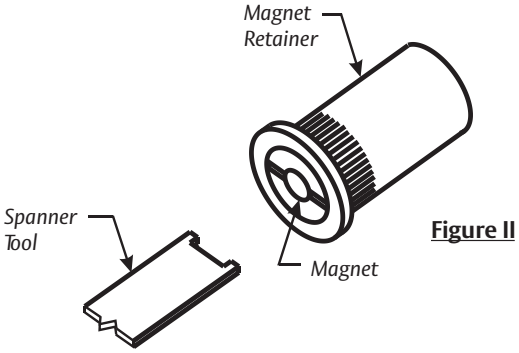



**Figure II**

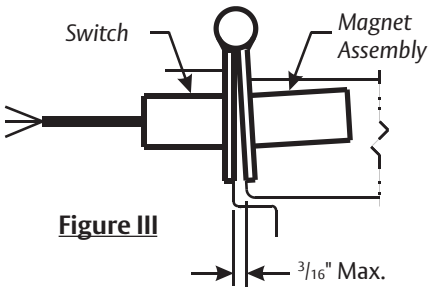



**Figure III**

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