40TJ Series Magnetic Lock

Installation Instructions & Cut-Out Template

The 40TJ Series magnet is powered by 12 or 24VDC only. Schlage offers several power supplies which can be used to power magnetic locks. Magnetic locks are usually controlled by an access control reader (card, prox, etc.) and an egress device such as an exit device with a switch, pushbutton and/or motion detector. In most cases it is required that activation of building's fire alarm system cause all magnetic locks to unlock. Consult local authority having jurisdiction regarding system requirements for local life safety and electrical codes.

1) Place template on frame face as shown. Leave room if required for existing door hardware such as vertical rod panic hardware, etc. Drill required holes.

**NOTE:** Many frame faces are not tall enough for all holes to be drilled. In such cases, prep the three holes which fall on the frame face for blind nuts and use masonry anchors or other appropriate fasteners for the top two holes. It is critical that the three fasteners on the frame face are properly installed.

2) Refer to wiring chart and make wiring connections.

<table>
<thead>
<tr>
<th><strong>WIRING:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Red (+) 0.300A@12VDC</td>
</tr>
<tr>
<td>Black (-) 0.150A@24VDC</td>
</tr>
<tr>
<td>White MBS C</td>
</tr>
<tr>
<td>Green MBS NO</td>
</tr>
<tr>
<td>Orange MBS NC</td>
</tr>
<tr>
<td>Contact shown with lock unlocked</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>CONTACTS:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Yellow DSM C</td>
</tr>
<tr>
<td>Blue DSM NO &gt;0.1OA max. @30VDC</td>
</tr>
<tr>
<td>Brown DSM NC</td>
</tr>
<tr>
<td>Contact shown with door opened</td>
</tr>
</tbody>
</table>

3) Install magnet.

**NOTE:** Top two blind nuts might fall on wall area. Use appropriate reinforcement as required to attain rated holding force.

**NOTE:** Magnet and armature must mate when door is in closed (and latched if applicable) position. Adjust by adding/subtracting shim washers.

- Anti-tamper plugs if required 2X
- 1/4-20 socket cap screw 2X
- Fender washers 2X

Wiring: Do not pinch wires between parts

A. Drill a 9/32" hole.

B. Refer to Figure 1.
   - Assemble the supplied parts.
   - Insert into hole.

C. While holding tool in place with wrench, tighten to collapse nut with hex wrench. IMPORTANT: DO NOT OVERTIGHTEN.

D. Figure 3 shows completed installation of blind nut.

E. Repeat steps A, B and C for additional blind nuts.

4) Prepare TJ bracket

**NARROW STILE ALUMINUM DOOR**

- Drill holes for armature
- Mark holes for mounting armature

**TYPICAL HOLLOW METAL DOOR w/WEB**

- Determine horizontal centerline of magnet and mark it on the TJ bracket as shown.
- TJ bracket must be lowered so web does not interfere with fasteners.

**Line up template with horizontal centerline and center it on the TJ bracket (measure and mark the center). Tape the template to the TJ bracket and drill holes as required by template.**
5) Install armature onto TJ bracket using fasteners in order and orientation as shown.
Drill holes for TJ bracket as specified.
Mount TJ bracket assembly onto door.

Sex nut
Drill 3/8" thru
1/2" this side
(wood doors: 1/2" thru)

Armature
Cone washer
Flat side toward
TJ bracket

Exterior tooth washer

5/16-18 hex bolt

5/16-18 weld nut

#14 hex sheet metal screws (2X)

Shim washers
Qty: 1, 2 or 3
Used to adjust armature position

Drill pilot holes
for 1-1/2"

#14 hex sheet metal screws (2X)
DO NOT DRILL THRU DOOR

CUT OUT TEMPLATES ALONG THIS DASHED LINE

Place on frame face
(see step 1)

Align with bottom of frame face

CUT ALONG THIS DASHED LINE

Ø1/2", 1" deep (2X)
DO NOT DRILL
THRU DOOR

Ø3/8" thru

Ø3/8" (3X)

This Ø3/8" wire hole may be
enlarged to Ø1/2" if required

0.87 0.94

0.55

for blind nuts (do not overdrip)
or 1/4-20 tapped hole
for reinforced frame

2.25"

4.50"

Place on TJ bracket
(see step 4)