APPLICATION

MC Series control devices are used in conjunction with magnetic starters or contactors for remote control of motors and to visually indicate that the desired function is being performed.

INSTALLATION

WARNING
Electrical power must be OFF before and during installation and maintenance.

1. Select a mounting location that will provide suitable strength and rigidity for supporting all contained wiring and control devices. Figure 3 shows the mounting dimensions of all MC device bodies. Drill and tap mounting holes for 1/4 inch diameter mounting hardware.

2. Securely fasten the device body to the mounting surface, then attach the body into the conduit system.

3. Remove the cover screws and then lift the cover assembly from the device body.

4. Pull supply wires into the enclosure, making them just long enough to make the required connections.

5. Make the electrical connections utilizing the wiring scheme established for your system. See Figures 1A and 1B for the contact diagrams for the MC pushbutton stations, side rocker handles and selector switches. The field wiring terminals on the switch units used for pushbutton, side rocker handles or selector switch stations are marked, (see Figure 2). The indicates normally open contacts: and indicates normally closed contacts of the switch. These switches are provided with wire terminal clamps.

NOTE: A1 and B1 are "Normally Closed" and A2 and B2 are "Normally Open"

Figure 1B
Strip the insulation on each conductor wire back 3/8".

Use a slotted or Phillips head screwdriver to loosen the field wiring terminal screws the required 3 or 4 turns.

Insert the bare wire conductor(s) on either side of the terminal screw(s), under the terminal wire clamp(s) and securely tighten the screw(s).

NOTE: Do not exceed 15 in. lbs. of torque.

Pilot lights are furnished with pigtail leads for field connection by use of wire nuts.

6. Test wiring for correctness with continuity checks and also for unwanted grounds with an insulation resistance tester.

7. Carefully assemble cover assembly to the device body with the cover screws. Check the tightness of the cover screws to ensure that the cover assembly is securely fastened.

Pushbutton Stations:

<table>
<thead>
<tr>
<th>Style</th>
<th>Position 1</th>
<th>Position 2</th>
<th>Position 3</th>
</tr>
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<tbody>
<tr>
<td>Two Position</td>
<td>A1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Two Circuit</td>
<td>A2</td>
<td></td>
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</table>

Two Position
Four Circuit

<table>
<thead>
<tr>
<th>Style</th>
<th>Position 1</th>
<th>Position 2</th>
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</tr>
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<tr>
<td>Two Position</td>
<td>A1</td>
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</tr>
<tr>
<td>Two Circuit</td>
<td>A2</td>
<td></td>
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</tbody>
</table>

Three Position
Four Circuit

<table>
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<th>Position 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three Position</td>
<td>A1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Two Circuit</td>
<td>A2</td>
<td></td>
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</tr>
</tbody>
</table>

NOTE: A1 and B1 are "Normally Closed" and A2 and B2 are "Normally Open"

Figure 1A

<table>
<thead>
<tr>
<th>A1</th>
<th>A2</th>
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</thead>
<tbody>
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<td></td>
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</table>

NOTE: A1 are "Normally Closed" and A2 are "Normally Open"

* Two universal contact blocks, may be wired as two circuits, with one normally open and one normally closed.
PILOT LAMP REPLACEMENT

110-125 Volt Circuit: 6 watt, type S6, candelabra base
220-250 Volt Circuit: 10 watt, type S6, intermediate base
440-480 Volt Circuit: 6 watt, type S6, candelabra base

Figure 2

MC Factory Sealed contact block for pushbuttons, side rockers, and selector switches

NORMALLY OPEN CONTACTS
NORMALLY CLOSED CONTACTS
MC Pushbutton Stations Screw Terminals

Figure 3

MC Series - Body Mounting Dimensions

$\begin{array}{ccc}
\text{Hub (In.)} & a & b \\
1/2 & 5/8 & 7/8 \\
3/4 & 3/4 & 7/8
\end{array}$

MAINTENANCE

WARNING
Always disconnect primary power source before opening the enclosure for inspection or service.

1. Frequent inspections should be made. A schedule for maintenance checks should be determined by the environment and frequency of use. It is recommended that it should be at least once a year.

2. Perform visual, electrical and mechanical checks on all components on a regular basis.
   - Visually check for undue heating evidenced by discoloration of wires or other components, damaged or worn parts or leakage evidenced by water or corrosion in the interior.
   - Electrically check to make sure that all connections are clean and tight, and that contacts in the components make or break as required.
   - Mechanically check that all parts are properly assembled, and that operating mechanisms move freely.

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