All relay switch contacts are shipped in the standby state (open) state, but may have transferred to the activated (closed) state during shipping. To ensure that the switch contacts are in their correct state, modules must be made to communicate with the panel before connecting circuits controlled by the module.

### Relay Contact Ratings:

<table>
<thead>
<tr>
<th>CURRENT RATING</th>
<th>MAXIMUM VOLTAGE</th>
<th>LOAD DESCRIPTION</th>
<th>APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 A</td>
<td>30 VDC</td>
<td>Resitive</td>
<td>Non Coded</td>
</tr>
<tr>
<td>2 A</td>
<td>30 VDC</td>
<td>Resitive</td>
<td>Coded</td>
</tr>
<tr>
<td>.9 A</td>
<td>110 VDC</td>
<td>Resitive</td>
<td>Non Coded</td>
</tr>
<tr>
<td>.9 A</td>
<td>125 VAC</td>
<td>Resitive</td>
<td>Non Coded</td>
</tr>
<tr>
<td>.5 A</td>
<td>30 VDC</td>
<td>Inductive (L/R=5ms)</td>
<td>Coded</td>
</tr>
<tr>
<td>1 A</td>
<td>30 VDC</td>
<td>Inductive (L/R=2ms)</td>
<td>Coded</td>
</tr>
<tr>
<td>.5 A</td>
<td>125 VAC</td>
<td>Inductive (PF=.35)</td>
<td>Non Coded</td>
</tr>
<tr>
<td>.7 A</td>
<td>75 VAC</td>
<td>Inductive (PF=.35)</td>
<td>Non Coded</td>
</tr>
</tbody>
</table>

### FCM-1 Supervised Control Module

#### Specifications
- Normal Operating Voltage: 15 to 32 VDC
- Maximum Current Draw: 6.5 mA (LED on)
- Average Operating Current: 390µA (LED flashing)
- External Supply Voltage: (between Terminals T3 and T4)
- Maximum: 80 Volts (RMS or DC)
- Draw on External Supply: 2 mA Maximum (using internal EXL relay)
- Temperature Range: 32°F to 120°F (0°C to 49°C)
- Humidity: 10% to 93% Noncondensing
- Dimensions: 4½" H x 4" W x 1¾“ D (Mounts to a 4" deep box.)
- Accessories: SMB500 Electrical Box, CB500 Barrier

#### Before Installing
- This information is included as a quick reference installation guide. Refer to the control panel installation manual for detailed system information. If the modules will be installed in an existing operational system, inform the operator and local authority that the system will be temporarily out of service. Disconnect power to the control panel before installing the modules.

#### IMPORTANT:
- When using the FCM-1 for fire fighter telephone applications, remove Jumper (J1) and discard. The Jumper is located on the back under the product label as shown in Figure 2A.

#### Compatibility Requirements
- To ensure proper operation, this module shall be connected to a compatible Notifier system control panels only (list available from Notifier). The FCM-1 has two pairs of output termination appliances. It also supervises the wiring to the connected loads and reports their status to the panel as NORMAL, OPEN, or SHORT CIRCUIT. The FCM-1 has two pairs of output termination points available for fault-tolerant wiring and a panel-controlled LED indicator. This module can be used to replace a CMX-2 module that has been configured for supervised wiring operation.

#### Wiring
- All wiring must conform to applicable local codes, ordinances, and regulations. When using control modules in nonpower limited applications, the CB500 Module Barrier must be used to meet UL requirements for the separation of power-limited and nonpower limited terminals and wiring. The barrier must be inserted into a 4 x 2½” junction box, and the control module must be placed into the barrier and attached to the junction box (Figure 2A). The power-limited wiring must be placed into the isolated quadrant of the module barrier (Figure 2B).
Figure 3. Typical notification appliance circuit configuration, NFPA Style Y:

Figure 4. Typical fault tolerant notification appliance circuit configuration, NFPA Style Z:

Figure 5. Typical wiring for speaker supervision and switching, NFPA Style Y:

Figure 6. Typical fault tolerant wiring for speaker supervision and switching, NFPA Style Z: