### Relay Connector Module ZL-CM16RL24B

**Cables and PLC I/O Modules**

<table>
<thead>
<tr>
<th>PLC Type</th>
<th>Cable Type</th>
<th>PLC I/O Module Type</th>
<th>Connector Module Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>DL405</td>
<td>ZL-4CBL2</td>
<td>D4-16TD1</td>
<td>ZL-CM16RL24B</td>
</tr>
<tr>
<td>DL305</td>
<td>ZL-3CBL3FRD16</td>
<td>D3-16TD1-2</td>
<td>ZL-CM16RL24B</td>
</tr>
<tr>
<td>DL05/06</td>
<td>ZL-CBL056FR</td>
<td>D0-16TD1</td>
<td>ZL-CM16RL24B</td>
</tr>
<tr>
<td>DL05/06</td>
<td>ZL-CBL056FR</td>
<td>D0-16TD2</td>
<td>ZL-CM16RL24B</td>
</tr>
<tr>
<td>DL05/06</td>
<td>ZL-2CBL056FR</td>
<td>D0-10TD1</td>
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<td>ZL-CM16RL24B</td>
</tr>
</tbody>
</table>

**WARNING**: Wire only according to wiring diagrams shown below to avoid causing damage to the PLC or connector module. Match the correct combination of cable, PLC I/O module, and connector module as shown.

### DC-Powered Relay Modules

<table>
<thead>
<tr>
<th>Part Number</th>
<th>ZL-CM16RL24B</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>16-channel relay module w/LEDs, 24 pin IDC</td>
</tr>
<tr>
<td><strong>Approvals</strong></td>
<td>UL/CUL/CE</td>
</tr>
<tr>
<td><strong>Operating Range, Coil</strong></td>
<td>0 - 24VDC</td>
</tr>
<tr>
<td><strong>Input Current per Channel</strong></td>
<td>25mA ±5%</td>
</tr>
<tr>
<td><strong>Coil Supply Voltage</strong></td>
<td>24VDC±5%</td>
</tr>
<tr>
<td><strong>Coil Supply Current Max</strong></td>
<td>350mA</td>
</tr>
<tr>
<td><strong>Pickup Current</strong></td>
<td>16.7mA</td>
</tr>
<tr>
<td><strong>Switching Speed</strong></td>
<td>60Hz</td>
</tr>
<tr>
<td><strong>Contact Voltage (per point)</strong></td>
<td>250VAC/30VDC</td>
</tr>
<tr>
<td><strong>Contact Current (per point)</strong></td>
<td>10A</td>
</tr>
<tr>
<td><strong>Coil/Contact Isolation</strong></td>
<td>2500VAC (up to 1 min.)</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-10°C to +45°C</td>
</tr>
<tr>
<td><strong>OFF to ON/ON to OFF Response</strong></td>
<td>15ms/5ms</td>
</tr>
<tr>
<td><strong>Life Mechanical Contact</strong></td>
<td>2x10 6th</td>
</tr>
<tr>
<td><strong>Maximum Switching Voltage</strong></td>
<td>400Vca 125Vcc</td>
</tr>
<tr>
<td><strong>Maximum Current for Relay</strong></td>
<td>10A</td>
</tr>
<tr>
<td><strong>Maximum Power, Inductive</strong></td>
<td>ca1500VA cc 150W</td>
</tr>
<tr>
<td><strong>Maximum Power, Resistive</strong></td>
<td>ca2500VA cc 300W</td>
</tr>
<tr>
<td><strong>Minimum Load</strong></td>
<td>100mA 5Vcc</td>
</tr>
<tr>
<td><strong>Channel to Channel/Contact Isolation</strong></td>
<td>1000VAC (up to 1 min.)</td>
</tr>
<tr>
<td><strong>Terminal Block Contact</strong></td>
<td>Copper alloy, tin-lead plating</td>
</tr>
<tr>
<td><strong>Dimensions (L x W x H)</strong></td>
<td>11.574&quot;(294mm)x3.66&quot;(93mm)x 2.87&quot;(73mm)</td>
</tr>
<tr>
<td><strong>Spare Relays</strong></td>
<td>ZL-RELAY-24</td>
</tr>
<tr>
<td><strong>Spare Relay Clips</strong></td>
<td>ZL-RELAY-KIT</td>
</tr>
</tbody>
</table>
PLC DL 405  Type D4-16TD1
DC Output  I/O Module

PLC DL 305  Type D3-16TD1-2
DC Output  I/O Module

WARNING: In applications approaching 10 amps, use 12AWG wire.
PLC DL05/06 Type D0-16TD1
DC Output I/O Module

PLC DL05/06 Type D0-16TD2
DC Output I/O Module

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Wiring Diagram: Power Supply and Cable

PLC DL05/06 Type D0-10TD1
DC Output I/O Module

Power supply 24V dc.

WARNING: In applications approaching 10 amps, use 12AWG wire.

Warning: It is recommended to install a 3 Amp fast blow fuse in series with the power supply as an extra safety measure. Use a fuse terminal block such as a DIN connector DN-F10 or DN-F10L.

ZL-CM16RL24B

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Wiring Diagram: Power Supply and Cable

PLC DL05/06 Type D0-10TD2
DC Output I/O Module

Power supply 24V dc.

WARNING: In applications approaching 10 amps, use 12AWG wire.

Warning: It is recommended to install a 3 Amp fast blow fuse in series with the power supply as an extra safety measure. Use a fuse terminal block such as a DIN connector DN-F10 or DN-F10L.

ZL-CM16RL24B

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Warning: It is recommended to install a 3 Amp fast blow fuse in series with the power supply as an extra safety measure. Use a fuse terminal block such as a DINector DIN-F10 or DIN-F10L.

WARNING: In applications approaching 10 amps, use 12AWG wire.