LED Connector Module ZL-CM16L24
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>DL205</td>
<td>ZL-2CBL2L</td>
<td>D2-16ND3-2</td>
<td>ZL-CM16L24</td>
</tr>
<tr>
<td>DL305</td>
<td>ZL-3CBL2L</td>
<td>D3-16NE3</td>
<td>ZL-CM16L24</td>
</tr>
<tr>
<td>DL405</td>
<td>ZL-4CBL2</td>
<td>D4-16ND2</td>
<td>ZL-CM16L24</td>
</tr>
<tr>
<td>DL405</td>
<td>ZL-4CBL2</td>
<td>D4-16ND2F</td>
<td>ZL-CM16L24</td>
</tr>
<tr>
<td>DL405</td>
<td>ZL-4CBL2</td>
<td>D4-16NE3</td>
<td>ZL-CM16L24</td>
</tr>
<tr>
<td>DL05/06</td>
<td>ZL-CBL056L</td>
<td>D0-16ND3</td>
<td>ZL-CM16L24</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.

Connection Example

**Connecting NPN DC Sensors**

- Connecting PNP DC Sensors

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Mounting Orientation:

- TOP (101,6mm)
- BOTTOM (101,6mm)

To download fullsize color .pdf Ziplink Wiring Diagrams go to www.Automationdirect.com website

Automationdirect.com
800-633-0405
Connecting DC Switches with A2 (or A1) Common

Connecting AC Sensor with A1 (or A2) Common

Connecting AC Switches with A2 (or A1) Common

Sensor switch normally open

Sensor switch normally closed

AC SENSOR TYPE VM1-A0-1B

Sensor switch normally open

Sensor switch normally closed

Sensor switch normally open

Sensor switch normally closed

TYPE C

TYPE D

TYPE E

TYPE F

TYPE G

TYPE H
Warning:
It is recommended to install a 2 Amp fast blow fuse in series with the power supply as an extra safety measure.
Use a fuse terminal block such as a DINnector DN-F10 or DN-F10L.

PLC DL 205 Type D2-16ND3-2
DC Input I/O Module
Cable ZL-2CBL2L

ZL-CM16L24

COMPATIBLE WITH CONNECTION:
A
B
C
D

I/O Module Input Octal Address 0 corresponds to LED 0
I/O Module Input Octal Address 1 corresponds to LED 1
I/O Module Input Octal Address 2 corresponds to LED 2
I/O Module Input Octal Address 3 corresponds to LED 3
I/O Module Input Octal Address 4 corresponds to LED 4
I/O Module Input Octal Address 5 corresponds to LED 5
I/O Module Input Octal Address 6 corresponds to LED 6
I/O Module Input Octal Address 7 corresponds to LED 7
I/O Module Input Octal Address 10 corresponds to LED 10
I/O Module Input Octal Address 11 corresponds to LED 11
I/O Module Input Octal Address 12 corresponds to LED 12
I/O Module Input Octal Address 13 corresponds to LED 13
I/O Module Input Octal Address 14 corresponds to LED 14
I/O Module Input Octal Address 15 corresponds to LED 15
I/O Module Input Octal Address 16 corresponds to LED 16
I/O Module Input Octal Address 17 corresponds to LED 17

PLC DL 305 Type D3-16NE3
AC/DC Input I/O Module
Cable ZL-3CBL2L

ZL-CM16L24

COMPATIBLE WITH CONNECTION:
A/E
B/F
C/G
D/H

I/O Module Input Octal Address 0 corresponds to LED 0
I/O Module Input Octal Address 1 corresponds to LED 1
I/O Module Input Octal Address 2 corresponds to LED 2
I/O Module Input Octal Address 3 corresponds to LED 3
I/O Module Input Octal Address 4 corresponds to LED 4
I/O Module Input Octal Address 5 corresponds to LED 5
I/O Module Input Octal Address 6 corresponds to LED 6
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I/O Module Input Octal Address 10 corresponds to LED 10
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I/O Module Input Octal Address 14 corresponds to LED 14
I/O Module Input Octal Address 15 corresponds to LED 15
I/O Module Input Octal Address 16 corresponds to LED 16
I/O Module Input Octal Address 17 corresponds to LED 17

ZL-CM16L24

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REV 1.5
Warning: It is recommended to install a 2 Amp fast blow fuse in series with the power supply as an extra safety measure. Use a fuse terminal block such as a DINnector DN-F10 or DN-F10L.

I/O Module Input Octal Address 0 corresponds to LED 0
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I/O Module Input Octal Address 13 corresponds to LED 13
I/O Module Input Octal Address 14 corresponds to LED 14
I/O Module Input Octal Address 15 corresponds to LED 15
I/O Module Input Octal Address 16 corresponds to LED 16
I/O Module Input Octal Address 17 corresponds to LED 17

COMPATIBLE WITH CONNECTION:
Warning: It is recommended to install a 2 Amp fast blow fuse in series with the power supply as an extra safety measure.

Use a fuse terminal block such as a DINnector DN-F10 or DN-F10L.

PLC DL 405 Type D4-16NE3
AC/DC Input I/O Module

COMPATIBLE WITH CONNECTION:

A/E
B/F
C/G
D/H

I/O Module Input Octal Address 0 corresponds to LED 0
I/O Module Input Octal Address 1 corresponds to LED 1
I/O Module Input Octal Address 2 corresponds to LED 2
I/O Module Input Octal Address 3 corresponds to LED 3
I/O Module Input Octal Address 4 corresponds to LED 4
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I/O Module Input Octal Address 16 corresponds to LED 16
I/O Module Input Octal Address 17 corresponds to LED 17

PLC DL05/06 Type D0-16ND3
DC Input I/O Module

COMPATIBLE WITH CONNECTION:

A
B
C
D

I/O Module Input Octal Address 0 corresponds to LED 0
I/O Module Input Octal Address 1 corresponds to LED 1
I/O Module Input Octal Address 2 corresponds to LED 2
I/O Module Input Octal Address 3 corresponds to LED 3
I/O Module Input Octal Address 4 corresponds to LED 4
I/O Module Input Octal Address 5 corresponds to LED 5
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I/O Module Input Octal Address 16 corresponds to LED 16
I/O Module Input Octal Address 17 corresponds to LED 17
## LED Modules

<table>
<thead>
<tr>
<th>Part Number</th>
<th>ZL-CM16L24</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>16 point I/O connector module with 16 LEDs, 24V, 24 pin IDC</td>
</tr>
<tr>
<td><strong>Approvals</strong></td>
<td>UL/CUL/CE</td>
</tr>
<tr>
<td><strong>Voltage Rating</strong></td>
<td>0-30 VAC/DC</td>
</tr>
<tr>
<td><strong>Peak Voltage</strong></td>
<td>70V</td>
</tr>
<tr>
<td><strong>Maximum Current (per Circuit)</strong></td>
<td>1A</td>
</tr>
<tr>
<td><strong>Maximum Current (per Module)</strong></td>
<td>16A</td>
</tr>
<tr>
<td><strong>Indicator Circuit Current</strong></td>
<td>2mA</td>
</tr>
<tr>
<td><strong># of Terminals per Device Common</strong></td>
<td>18</td>
</tr>
<tr>
<td><strong>Operating Temperature Range</strong></td>
<td>0°C to +50°C</td>
</tr>
<tr>
<td><strong>Operation Voltage</strong></td>
<td>5-26VDC</td>
</tr>
<tr>
<td><strong>Max Voltage</strong></td>
<td>30VDC</td>
</tr>
<tr>
<td><strong>Max Current per Channel</strong></td>
<td>500mA</td>
</tr>
<tr>
<td><strong>Current Nominal per Channel</strong></td>
<td>8-18mA</td>
</tr>
<tr>
<td><strong>Wire Range (Rated Cross Section)</strong></td>
<td>14-22 AWG (0.2-2.5mm²)</td>
</tr>
<tr>
<td><strong>Wire Strip Length</strong></td>
<td>0.32 (8mm)</td>
</tr>
<tr>
<td><strong>Terminal Block Contacts</strong></td>
<td>Copper alloy, tin-lead plating</td>
</tr>
<tr>
<td><strong>Dimensions (L x W x H)</strong></td>
<td>4.37&quot; (111mm) x 2.99&quot; (76mm) x 3.66&quot; (93mm)</td>
</tr>
</tbody>
</table>