ZL-RTB20-1 Specifications

**Description**
20-Pole Feedthrough Connector Module

**Maximum Voltage**
300VAC/VDC

**UL Voltage Rating**
0–250 VAC/VDC

**Maximum Current per Circuit**
2A

**Maximum Current per Common Circuit**
4A

**Maximum Current**
40A (all conductors combined including commons)

**Number of Terminal Block Positions**
24

**Operating Temperature Range**
32 to 140°F (0 to 60°C)

**Terminal Block Contacts**
Copper alloy, tin-lead plated

**Wire Range (Rated Cross Section)**
12–24 AWG Solid or Stranded Copper Conductor (2.5 mm²)

**Wire Strip Length**
0.24–0.27 in (6–7mm)

**Screw Torque**
4.4 in-lbs (0.5 Nm)

**Connector Type**
Molex Micro-Fit 3.0, 24 pin connector
Example: Receptacle 43020-2400
Pins 43031 Series, Male

**Cable/Wire Clearance**
0.5 in (12.7 mm) Required

**Mounting Restrictions**
None

**Weight**
114g (4.0 oz)

**Approvals**
UL508 File E139594, Canada & USA
CE (EN61131-2)

*Connecting cables are for internal wiring only.

**Use class 2 power supply. Use conductors rated 60°/75°C.

---

**ZL-RTB20-1 Pinouts**

<table>
<thead>
<tr>
<th>P1 Connector Pin</th>
<th>P2 Terminal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, 13</td>
<td>A1, A2</td>
</tr>
<tr>
<td>2, 14</td>
<td>A3, A4</td>
</tr>
<tr>
<td>7, 19</td>
<td>A5, A6</td>
</tr>
<tr>
<td>8, 20</td>
<td>A7, A8</td>
</tr>
<tr>
<td>15</td>
<td>B1</td>
</tr>
<tr>
<td>16</td>
<td>B2</td>
</tr>
<tr>
<td>17</td>
<td>B3</td>
</tr>
<tr>
<td>18</td>
<td>B4</td>
</tr>
<tr>
<td>21</td>
<td>B5</td>
</tr>
<tr>
<td>22</td>
<td>B6</td>
</tr>
<tr>
<td>23</td>
<td>B7</td>
</tr>
<tr>
<td>24</td>
<td>B8</td>
</tr>
<tr>
<td>3</td>
<td>C1</td>
</tr>
<tr>
<td>4</td>
<td>C2</td>
</tr>
<tr>
<td>5</td>
<td>C3</td>
</tr>
<tr>
<td>6</td>
<td>C4</td>
</tr>
<tr>
<td>9</td>
<td>C5</td>
</tr>
<tr>
<td>10</td>
<td>C6</td>
</tr>
<tr>
<td>11</td>
<td>C7</td>
</tr>
<tr>
<td>12</td>
<td>C8</td>
</tr>
</tbody>
</table>

---

*The 4 common circuits are at terminal block positions (A1, A2), (A3, A4), (A5, A6) and (A7, A8). Each common circuit has 2 cable wires per terminal.

---

*Connecting cables are for internal wiring only.

**Use class 2 power supply. Use conductors rated 60°/75°C.
Apply ZIPLink Labels
(Supplied with ZIPLink cables)

1. Find correct label and remove from sheet
2. Apply label to designated position

Choose I/O module type

Note: Upper, Middle, and Lower designation

DIN Rail Installation and Removal
To install ZIPLink module, insert upper tab into DIN rail.

Note: For cable/wire clearance .5" (12.7mm)

Click

Rotate until firmly seated and locked on DIN rail

To remove ZIPLink module, insert screwdriver between Tab 1 and module.

Pry up to release clip from DIN rail.
Repeat for Tab 2.

ZIPLink Cable Removal

1. Pull connector from socket.
2. Push tab on raised tip and hold.

WARNING: To minimize the risk of potential safety problems, you should follow all applicable local and national codes that regulate the installation and operation of your equipment. These codes vary from area to area and it is your responsibility to determine which codes should be followed, and to verify that the equipment, installation, and operation are in compliance with the latest revision of these codes.

Equipment damage or serious injury to personnel can result from the failure to follow all applicable codes and standards. We do not guarantee the products described in this publication are suitable for your particular application, nor do we assume any responsibility for your product design, installation, or operation.

If you have any questions concerning the installation or operation of this equipment, or if you need additional information, please call Technical Support at 770-844-4200.

This publication is based on information that was available at the time it was printed. At AutomationDirect.com® we constantly strive to improve our products and services, so we reserve the right to make changes to the products and/or publications at any time without notice and without any obligation. This publication may also discuss features that may not be available in certain revisions of the product.