



# Feedthrough Connector Modules

Feedthrough modules provide low-cost and compact field wiring screw termination solutions allowing quick connection with **ZIP**Link cables to PLC I/O modules. **ZIP**Link modules mount on 35mm DIN rail (part #DN-R35S1). Module **ZL-RTB20** will mount on 15mm DIN rail (part #DN-R15S1).

**ZL-RTB20****ZL-RTB40****ZL-RTB50**

| Specifications                      |                                                                                                                                     |             |               |                 |                                                                                                                                    |             |           |                 |                                                                                                                                                                                                                    |             |               |              |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|--------------|
| Feedthrough Modules                 | Part #                                                                                                                              | Pcs/<br>Pkg | Price/<br>Pkg | Weight<br>(lbs) | Part #                                                                                                                             | Pcs/<br>Pkg | Price/Pkg | Weight<br>(lbs) | Part #                                                                                                                                                                                                             | Pcs/<br>Pkg | Price/<br>Pkg | Weight (lbs) |
|                                     | ZL-RTB20                                                                                                                            | 1           | \$31.50       | 0.26            | ZL-RTB40                                                                                                                           | 1           | \$53.00   | 0.22            | ZL-RTB50                                                                                                                                                                                                           | 1           | \$74.00       | 0.33         |
| Description 4                       | 20-Pole Feedthrough Connector Module                                                                                                |             |               |                 | 40-Pole Feedthrough Connector Module                                                                                               |             |           |                 | 50-Pole Connector Module for interfacing SureServo I/O to a controller                                                                                                                                             |             |               |              |
| Maximum Voltage                     | 300 VAC/VDC                                                                                                                         |             |               |                 | 36 VAC/VDC                                                                                                                         |             |           |                 | 0–30 VDC 2                                                                                                                                                                                                         |             |               |              |
| UL Voltage Rating                   | 0–250 VAC/VDC                                                                                                                       |             |               |                 | 0–30 VAC/VDC 2                                                                                                                     |             |           |                 | 24VDC                                                                                                                                                                                                              |             |               |              |
| Maximum Current per Circuit         | 2A                                                                                                                                  |             |               |                 | 500mA                                                                                                                              |             |           |                 | 0.2 A                                                                                                                                                                                                              |             |               |              |
| Maximum Current per Common Circuit  | 4A 1                                                                                                                                |             |               |                 | N/A                                                                                                                                |             |           |                 | N/A                                                                                                                                                                                                                |             |               |              |
| Maximum Current per Module          | 40A<br>(all conductors combined including commons)                                                                                  |             |               |                 | 32A<br>(all conductors combined including commons)                                                                                 |             |           |                 | 10A                                                                                                                                                                                                                |             |               |              |
| Number of Terminal Block Positions  | 20                                                                                                                                  |             |               |                 | 40                                                                                                                                 |             |           |                 | 50                                                                                                                                                                                                                 |             |               |              |
| Surrounding Temperature Range       | 32 to 140°F (0 to 60°C)                                                                                                             |             |               |                 |                                                                                                                                    |             |           |                 |                                                                                                                                                                                                                    |             |               |              |
| Terminal Block Contacts             | Copper alloy, tin-lead plated                                                                                                       |             |               |                 |                                                                                                                                    |             |           |                 |                                                                                                                                                                                                                    |             |               |              |
| Wire Range (Rated Cross Section) 3  | 12–24 AWG Solid or Stranded Copper Conductor (2.5 mm²)                                                                              |             |               |                 |                                                                                                                                    |             |           |                 |                                                                                                                                                                                                                    |             |               |              |
| Wire Strip Length                   | 0.24–0.27 in (6–7 mm)                                                                                                               |             |               |                 |                                                                                                                                    |             |           |                 |                                                                                                                                                                                                                    |             |               |              |
| Screw Torque                        | 4.4 in-lbs (0.5 N-m)                                                                                                                |             |               |                 |                                                                                                                                    |             |           |                 |                                                                                                                                                                                                                    |             |               |              |
| Connector Type                      | Molex Micro-Fit 3.0, 24 pin connector<br>Example: Receptacle 43020-2400<br>Pins 43031 Series, Male                                  |             |               |                 | 3M 34000 Series IDC Connector, strain relief is required to latch to header.<br>Example: Socket 3417-7640, Strain relief 3448-3040 |             |           |                 | 3M mini DELTA Ribbon (MDR), 101 Series, 50 pin<br>Example: Plug 10150 - 3000VE,<br>Shell 10350 - 52A0 - 008                                                                                                        |             |               |              |
| Connecting Cables (Sold Separately) | Click on link: <a href="#">Wiring Selection Guides</a> .<br>Click on link: <a href="#">Connection Cable Specifications Tables</a> . |             |               |                 |                                                                                                                                    |             |           |                 | <a href="#">ZL-SVC-CBL50</a> (0.5 m/1.6 ft)<br><a href="#">ZL-SVC-CBL50-1</a> (1m/3.3 ft)<br><a href="#">ZL-SVC-CBL50-2</a> (2m/6.6 ft)<br>Click on link: <a href="#">Connection Cable Specifications Tables</a> . |             |               |              |
| Cable/Wire Clearance                | 0.5 in (12.7 mm) Required                                                                                                           |             |               |                 |                                                                                                                                    |             |           |                 |                                                                                                                                                                                                                    |             |               |              |
| Mounting Restrictions               | None                                                                                                                                |             |               |                 |                                                                                                                                    |             |           |                 |                                                                                                                                                                                                                    |             |               |              |
| Approvals                           | File # E200031 UL, cUL, Class 1, Division 2,<br>Groups A,B,C,D Hazardous Locations, CE, EN 61131-2:2007                             |             |               |                 |                                                                                                                                    |             |           |                 |                                                                                                                                                                                                                    |             |               |              |

1 The 4 common circuits are at terminal block positions 1, 6, 11, and 16.

Each common circuit has 2 cable wires per terminal.

2 Use Class 2 power supply

3 Use conductors rated 60°/75°C

4 Connecting cables are for internal wiring only.

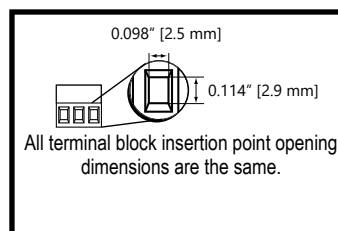
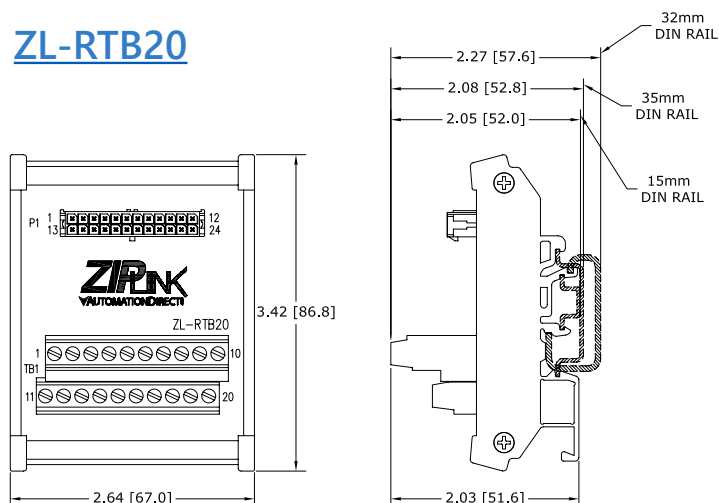


**Note:** See wiring details and dimensional drawings on our Web site at : <http://www.automationdirect.com/static/manuals/ziplinks/ziplinks.html>.

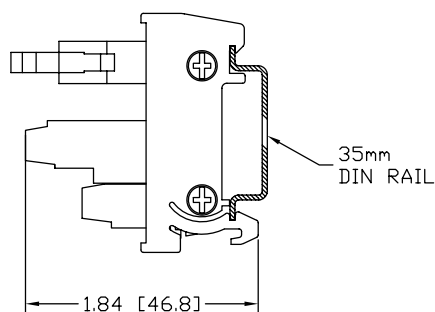
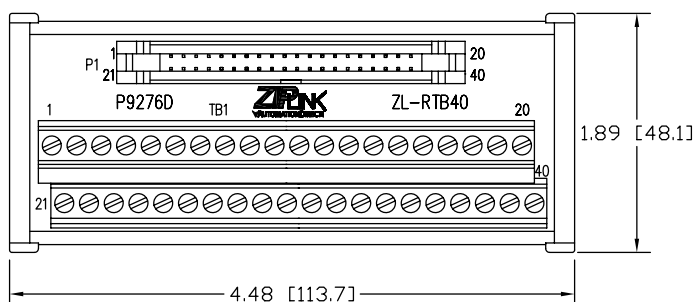


# Module Dimensions

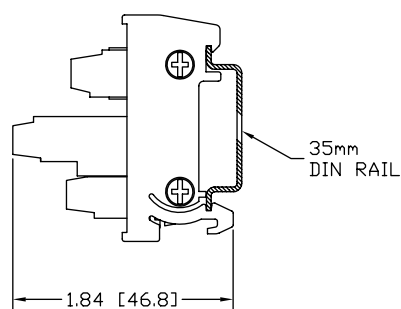
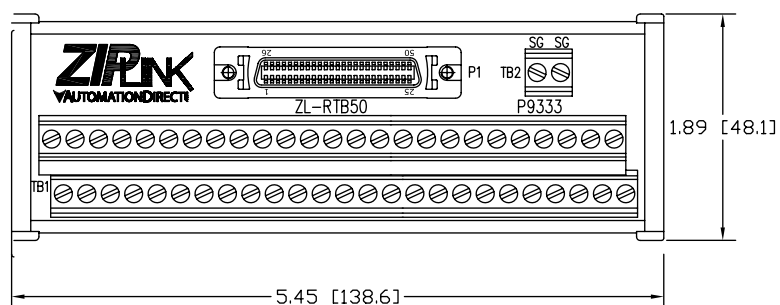
## ZL-RTB20



## ZL-RTB40



## ZL-RTB50



Note: Dimensions shown in Inches [mm]