



# Sensor Input Modules

LED modules provide simple and logical termination for 3-wire sensors or other devices. These modules offer visual LED indication of device input status for quick troubleshooting. The LED/sensor modules are available in 16 and 32-point versions.

Modules mount on 35mm DIN rail (part #DN-R35S1) or 15mm DIN rail (part #DN-R15S1).

**ZL-LTB16-24-1****ZL-LTB32-24-1**

| Specifications                                         |                                                                                                                                     |             |           |              |                                                                                                                                    |             |           |              |
|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|--------------|------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|--------------|
| Sensor Input Modules                                   | Part #                                                                                                                              | Pcs/<br>Pkg | Price/Pkg | Weight (lbs) | Part#                                                                                                                              | Pcs/<br>Pkg | Price/Pkg | Weight (lbs) |
|                                                        | <a href="#">ZL-LTB16-24-1</a>                                                                                                       | 1           | \$105.00  | 0.49         | <a href="#">ZL-LTB32-24-1</a>                                                                                                      | 1           | \$168.00  | 0.99         |
| Description *                                          | 16-point, 24VDC Sensor Input Module with LEDs                                                                                       |             |           |              | 32-point, 24VDC Sensor Input Module with LEDs                                                                                      |             |           |              |
| Maximum Voltage                                        | 50 VAC/VDC (-10%/+20%)                                                                                                              |             |           |              |                                                                                                                                    |             |           |              |
| UL Voltage Rating                                      | 0–30 VAC/VDC (-10%/+20%)                                                                                                            |             |           |              |                                                                                                                                    |             |           |              |
| Nominal Current per Input                              | I/O module max. input current per point plus 2mA for LED indicator                                                                  |             |           |              |                                                                                                                                    |             |           |              |
| Maximum Current per Input                              | 500mA                                                                                                                               |             |           |              |                                                                                                                                    |             |           |              |
| Maximum Current per Power Group<br>(P1, P2, P3, or P4) | 4A                                                                                                                                  |             |           |              |                                                                                                                                    |             |           |              |
| Operating Temperature Range                            | 32 to 140°F (0 to 60°C)                                                                                                             |             |           |              |                                                                                                                                    |             |           |              |
| LED Indicator Circuit                                  | 2mA @ 24VDC per LED                                                                                                                 |             |           |              |                                                                                                                                    |             |           |              |
| Terminal Block Contacts                                | Copper alloy, tin-lead plated                                                                                                       |             |           |              |                                                                                                                                    |             |           |              |
| Wire Range<br>(Rated Cross Section)                    | 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 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 |             |           |              |
| Connecting Cables<br>(Sold Separately)                 | Click on link: <a href="#">Wiring Selection Guides</a> .<br>Click on link: <a href="#">Connection Cable Specifications Tables</a> . |             |           |              |                                                                                                                                    |             |           |              |
| Cable/Wire Clearance                                   | Minimum requirement: 0.5 in (12.7 mm)                                                                                               |             |           |              |                                                                                                                                    |             |           |              |
| Mounting Restrictions                                  | None                                                                                                                                |             |           |              |                                                                                                                                    |             |           |              |
| Approvals                                              | File # E139594, UL, cUL, CE, EN 61131-2:2007                                                                                        |             |           |              |                                                                                                                                    |             |           |              |

\*Connecting cables are for internal wiring only.

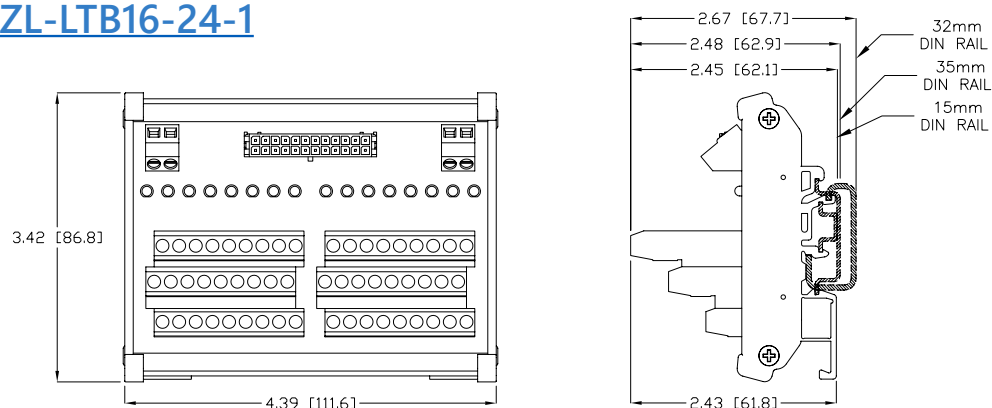


**Note:** See wiring details and dimensional drawings on our Web site at:  
<http://www.automationdirect.com/static/manuals/ziplinks/ziplinks.html>.

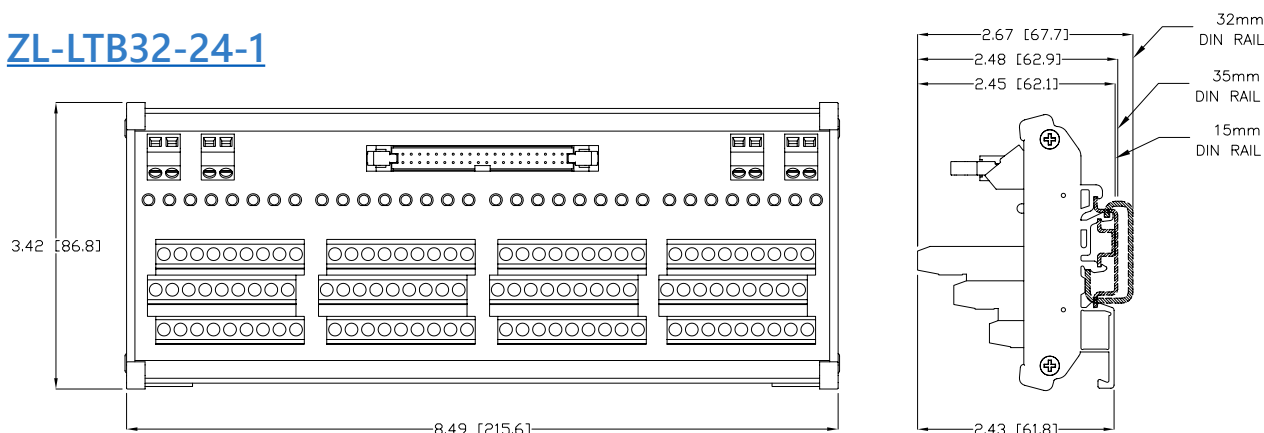


# Module Dimensions

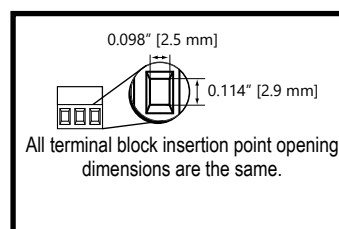
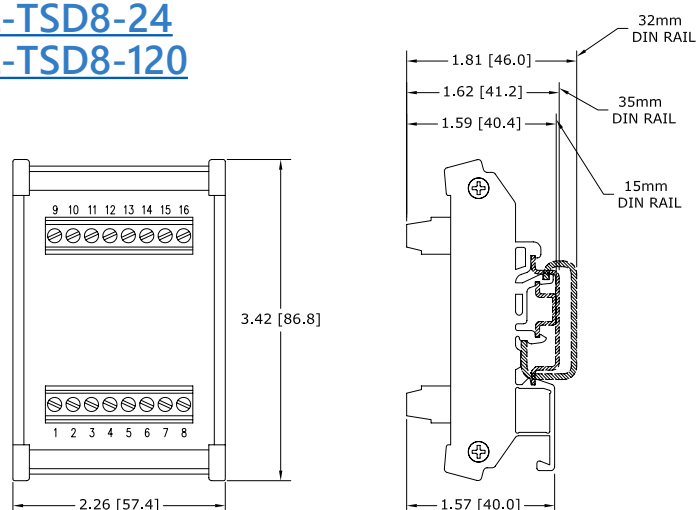
## ZL-LTB16-24-1



## ZL-LTB32-24-1



## ZL-TSD8-24 ZL-TSD8-120



Note: Dimensions shown in Inches [mm]