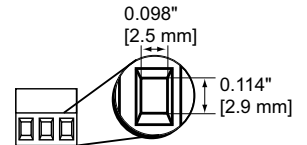


Terminal Block Insertion Point Opening Dimension



ZL-LTB16-24-1 Specifications	
Description*	16-point, 12–24 volt, 2-wire sensor input module with LED indicators
Maximum Voltage	50VAC/VDC (-10%/+20%)
UL Voltage Range**	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 (P1, P2, P3, or P4)	4A
Operating Temperature Range	32 to 140°F (0 to 60°C)
LED Indicator Circuit	2mA @ 24VDC/VAC per LED
Number of Terminal Block Positions	24
Terminal Block Contacts	Copper alloy, tin-lead plated
Wire Range (Rated Cross Section)**	12–24 AWG Solid or Stranded Copper Conductor (2.5mm ²)
Wire Strip Length	0.24–0.27 in (6–7 mm)
Screw Torque	4.4 in-lbs (0.5 Nm)
Connector Type	Molex Micro-Fit 3.0, 24 pin connector
Cable/Wire Clearance	0.5 in (12.7mm) Required
Mounting Restrictions	None
Weight	226g (7.9 oz)
Approvals	File # 139594, UL, cUL, CE, EN 61131-2:2007

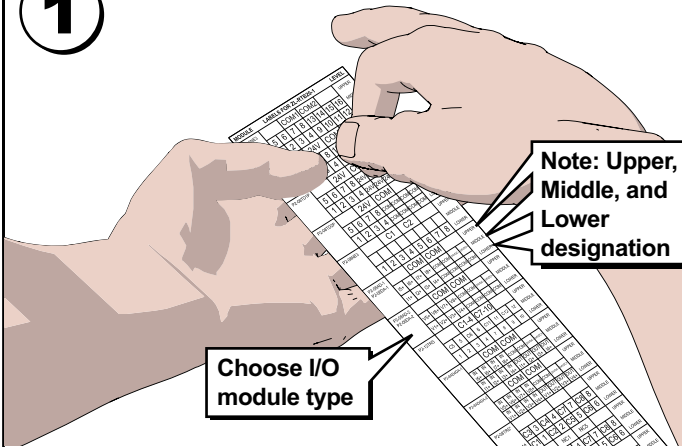
*Connecting cables are for internal wiring only.

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

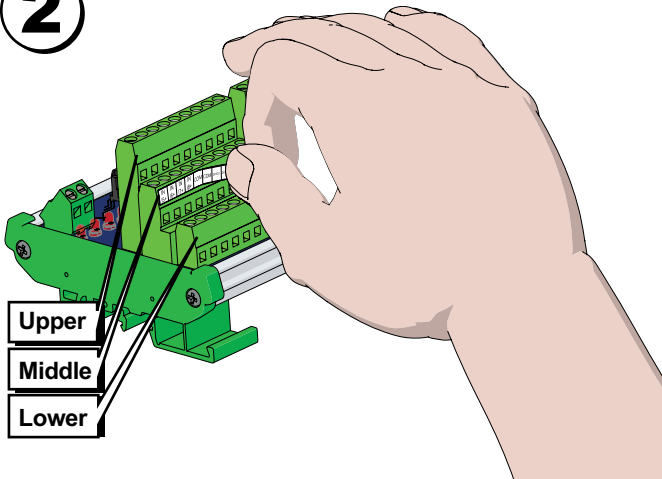
Apply ZIPLink Labels

(Supplied with ZIPLink modules)

- 1 Find correct label and remove from sheet

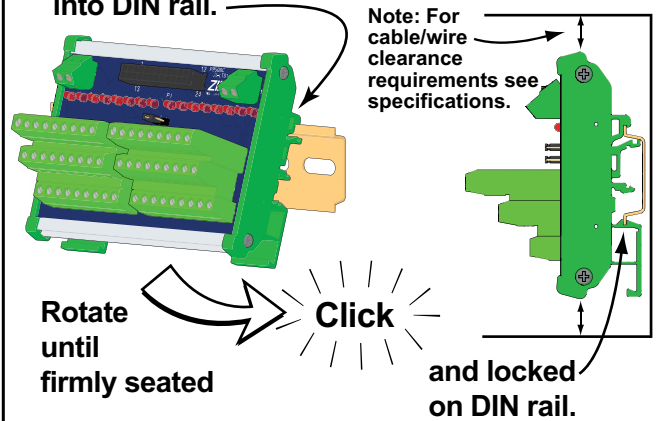


- 2 Apply label to designated position

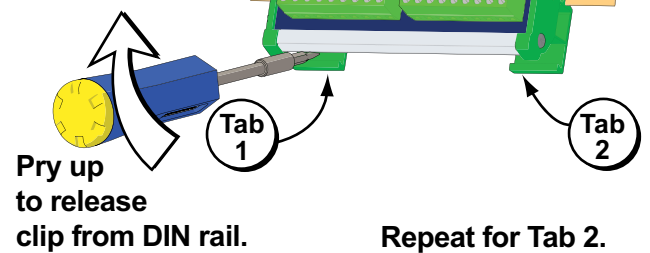


DIN Rail Installation and Removal

To install ZIPLink module, insert upper tab into DIN rail.



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



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.

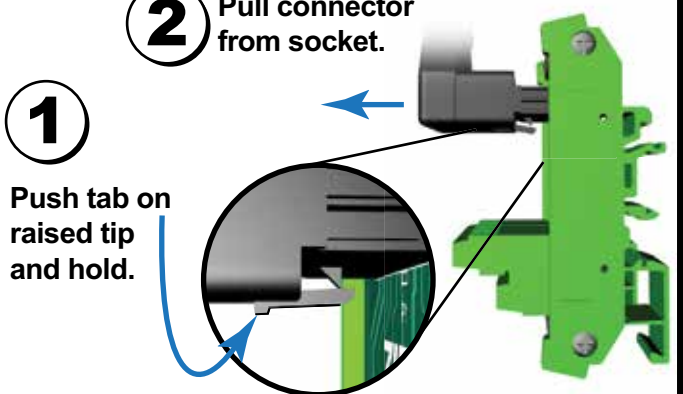
If you have any questions concerning the installation or operation of this equipment, or if you need additional information, please call Technical Support at 770-844-4200.

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.

ZIPLink Cable Removal

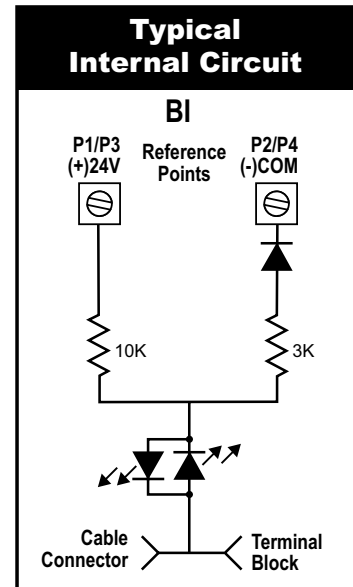
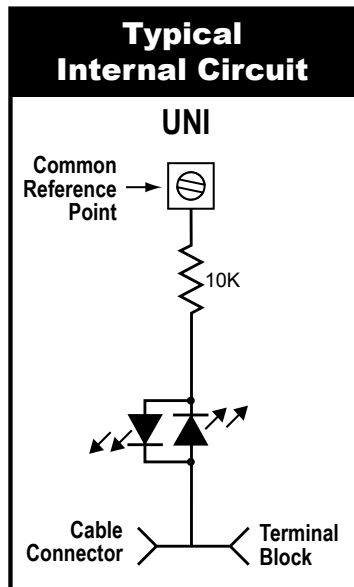
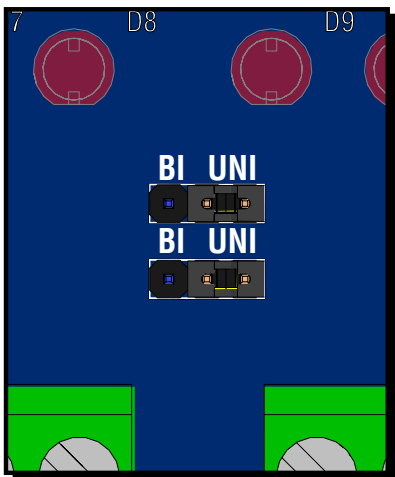
- 2 Pull connector from socket.

- 1 Push tab on raised tip and hold.

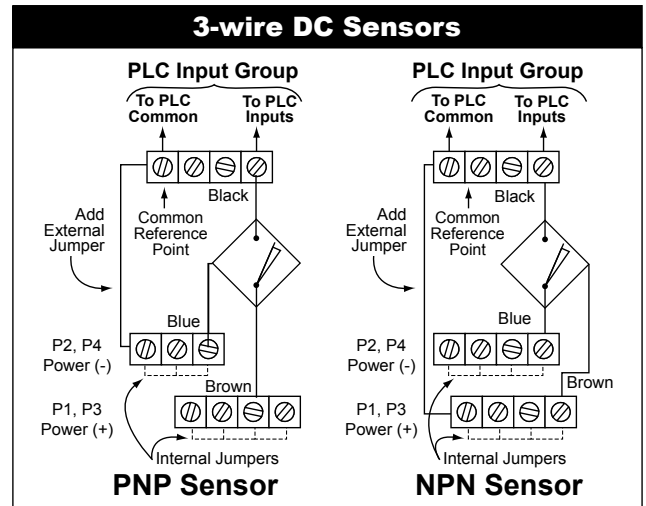
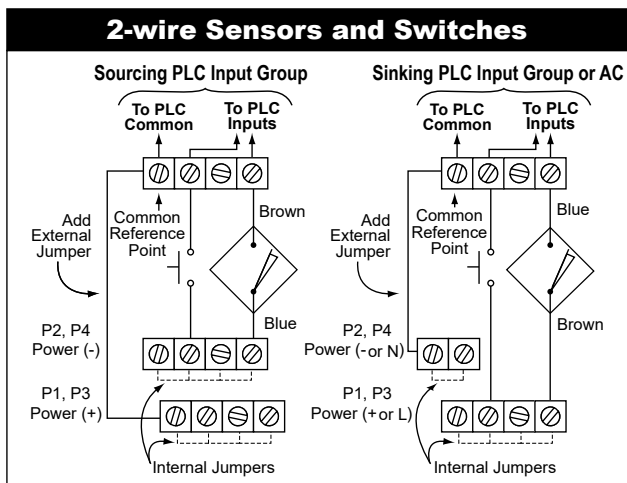


Input Module Application Table					
Family	Module	Pre-wired Cables	Voltage Range	Input Current Per Point (mA)	Jumper
DL05/06	D0-16ND3	ZL-D0-CBL24-L (-1L) (-2L)	20-28 VDC	4mA @ 24 VDC	Uni
DL205	D2-16ND3-2	ZL-D2-CBL19 (-1) (-2)	20-28 VDC	6mA @ 24 VDC	Uni
DL305	D3-16NE3	ZL-D3-CBL18 (-1) (-2)	4-30 VAC/VDC	16mA @ 24 VDC	Uni
DL405	D4-16ND2	ZL-D4-CBL20 (-1) (-2)	0.2-26.4 VDC	3.8mA @ 12 VDC, 8.3mA @ 24 VDC	Uni
	D4-16ND2F	ZL-D4-CBL20 (-1) (-2)	10.2-26.4 VDC	3.8mA @ 12 VDC, 8.3mA @ 24 VDC	Uni
	D4-16NE3	ZL-D4-CBL20 (-1) (-2)	10.2-26.4 VAC/ VDC	3.8mA @ 12 VAC/VDC, 8.3mA @ 24 VAC/VDC	Uni
CLICK	C0-16ND3	ZL-C0-CBL20 (-1) (-2)	21.6-26.4 VDC	4mA @ 24 VDC	Uni
	C0-16NE3	ZL-C0-CBL20 (-1) (-2)	20.4-27.6 VAC/VDC	3.4mA @ 24 VAC/VDC	Uni
P2000	P2-16ND3	ZL-P2-CBL18 (-1) (-2)	10.2-26.4 VDC	2.5mA @ 12 VDC, 5mA @ 24 VDC	Bi
	P2-16NE3	ZL-P2-CBL18 (-1) (-2)	20.4-27.6 VAC/VDC	3.4mA @ 24 VAC/VDC	Uni
P3000	P3-16ND3	ZL-P3-CBL20-L (-1L) (-2L)	10.8-26.4 VDC	5mA @ 12 VDC, 11mA @ 24 VDC	Uni
BRX	BX-16ND3	ZL-BXEM-CBL20 (-1) (-2)	9-30 VDC	8mA @ 24VDC	Uni

Install the jumpers for the input modules selected

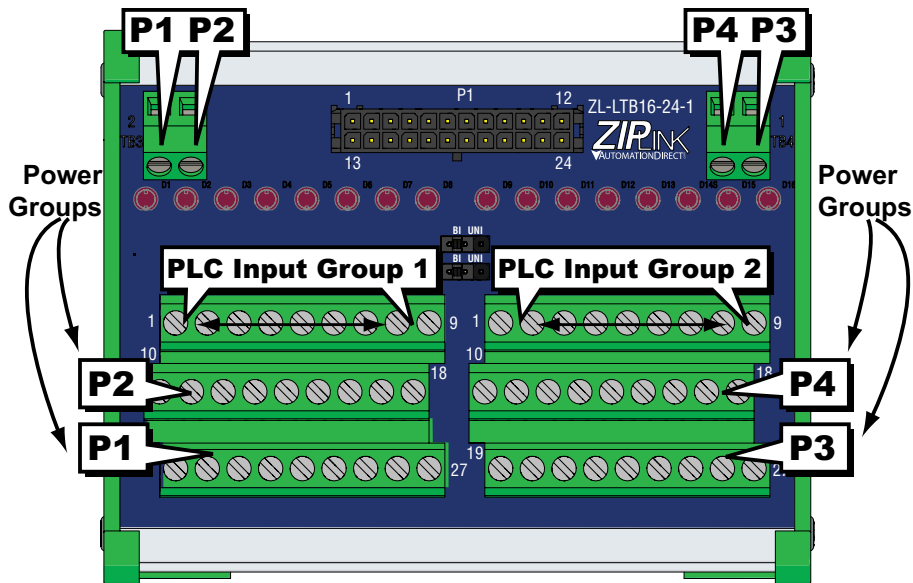
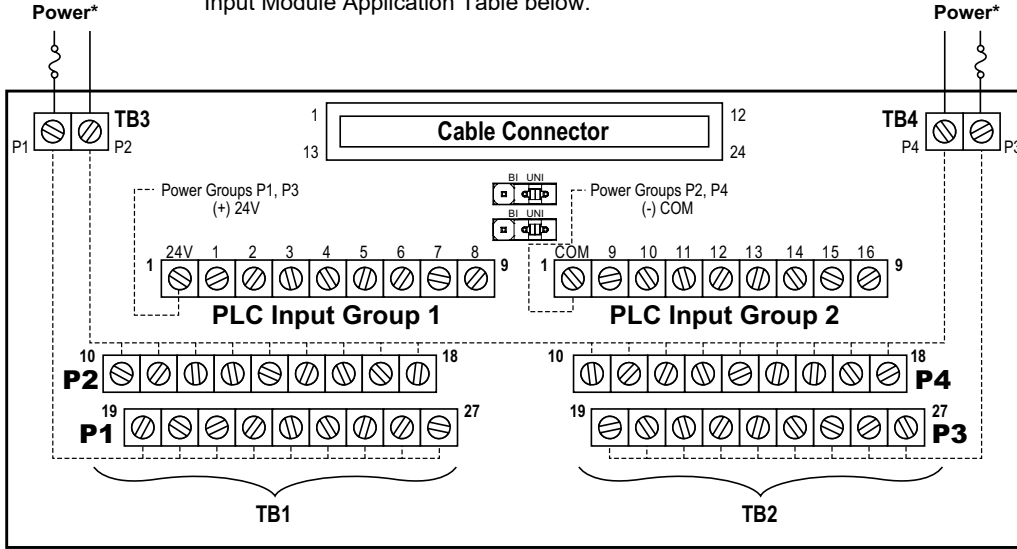


"UNI" is used for modules that can support either sinking or sourcing to a group of inputs, but not both within the group.
 "BI" is used for modules that can support both sinking or sourcing individual inputs.



WARNING: We recommend installing up to a 4 Amp fast-blow fuse such as AGC4 or similar in series with the power supply as an extra safety measure.

*For power requirements, see the Voltage Range listed in the Input Module Application Table below.



Power Connections				
Circuit	Group 1		Group 2	
	Power In	Power Out	Power In	Power Out
± 12V or +24V	TB3 Pin 2 (P1)	TB1 Pins 19-27 (P1)	TB4 Pin 1 (P3)	TB2 Pins 19-27 (P3)
COM	TB3 Pin 1 (P2)	TB1 Pins 10-18 (P2)	TB4 Pin 2 (P4)	TB2 Pins 10-18 (P4)

Pin and Terminal Assignments			
PLC Input Group 1		PLC Input Group 2	
ZIPLink Cable Connector Pin	TB1 Terminal	ZIPLink Cable Connector Pin	TB2 Terminal
1, 2, 13, 14	1	7, 8, 19, 20	1
3	2	9	2
4	3	10	3
5	4	11	4
6	5	12	5
15	6	21	6
16	7	22	7
17	8	23	8
18	9	24	9

Part Number	Revision	Date
ZL-LTB16-24-1	1st Ed., Rev A	4/19/2017