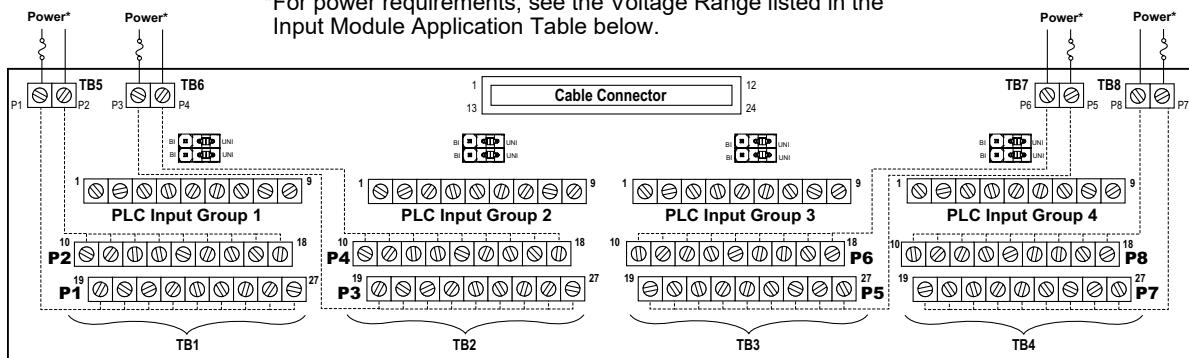
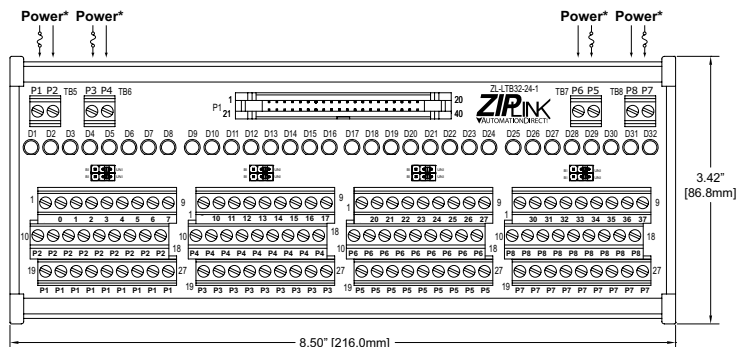
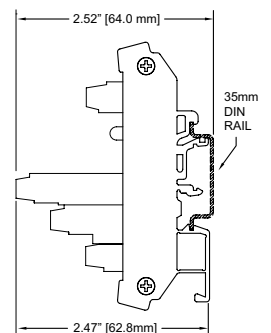
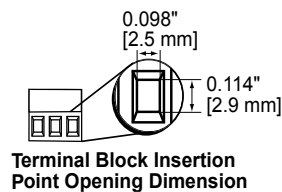


**WARNING:** We recommend installing up to a 4 Amp fast-blow fuse such as AGC4 or similar in series with the power supply as an extra safety measure.

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



ZL-LTB32-24-1 Specifications	
<b>Description*</b>	32-point, 24volt Sensor Input Module with LEDs
<b>Maximum Voltage</b>	50VAC/VDC (-10%/+20%)
<b>UL Voltage Rating**</b>	0-30 VAC/VDC (-10%/+20%)
<b>Nominal Current per Input</b>	I/O module max. input current per point plus 5mA for LED indicator.
<b>Maximum Current per Input</b>	500mA
<b>Maximum Current per Power Group (P1, P2, P3, P4, P5, P6, P7, or P8)</b>	4A
<b>Operating Temperature Range</b>	32 to 140°F (0 to 60°C)
<b>LED Indicator Circuit</b>	2mA @ 24VDC/VAC per LED
<b>Number of Terminal Block Positions</b>	32
<b>Terminal Block Contacts</b>	Copper alloy, tin-lead plated
<b>Wire Range (Rated Cross Section)**</b>	12-24 AWG Solid or Stranded Copper Conductor (2.5mm <sup>2</sup> )
<b>Wire Strip Length</b>	0.24-0.27 in (6-7 mm)
<b>Screw Torque</b>	4.4 in-lbs (0.5 Nm)
<b>Connector Type</b>	3M 34000 Series IDC Connector, Strain relief is required to latch to header. Example: Socket 3417-7640, Strain relief 3448-3040
<b>Cable/Wire Clearance</b>	0.5 in (12.7 mm) Required
<b>Mounting Restrictions</b>	None
<b>Weight</b>	448g (15.8 oz)
<b>Approvals</b>	File # E139594, UL, cUL, CE, EN 61131-2:2007



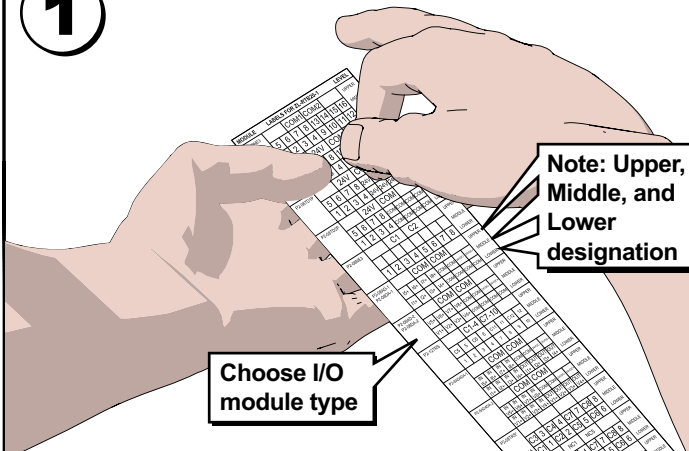
\*Connecting cables are for internal wiring only.

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

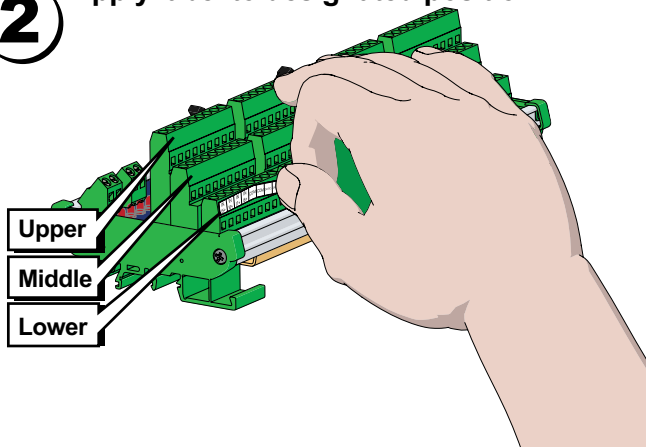
## Apply ZIPLink Labels

(Supplied with ZIPLink module)

- 1 Find correct label and remove from sheet

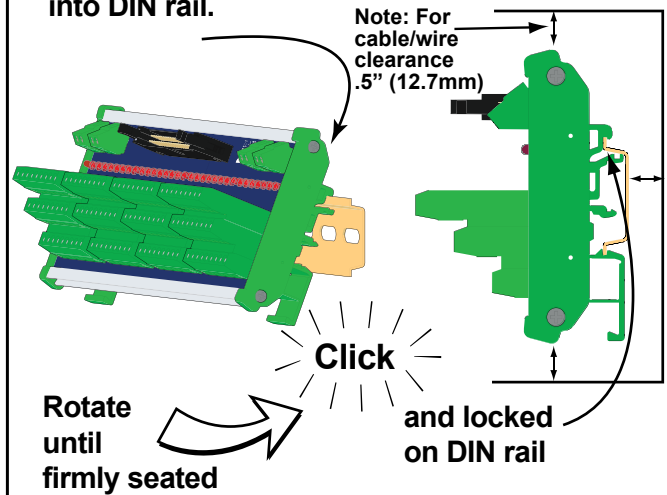


- 2 Apply label to designated position

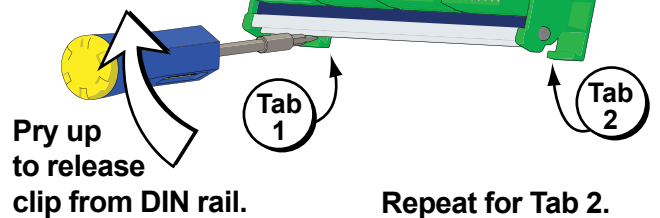


## DIN Rail Installation and Removal

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.

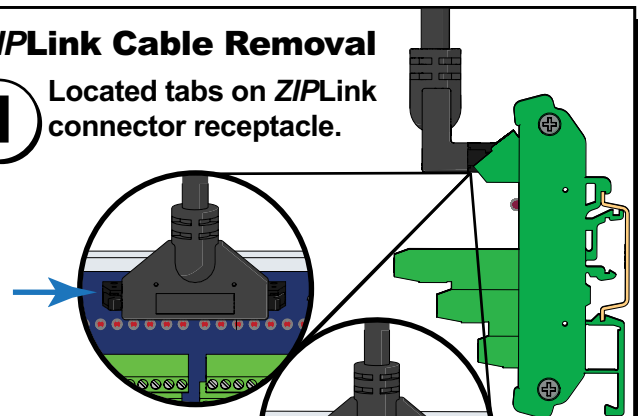
Equipment damage or serious injury to personnel can result from the failure to follow all applicable codes and standards. We do not guarantee the products described in this publication are suitable for your particular application, nor do we assume any responsibility for your product design, installation,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

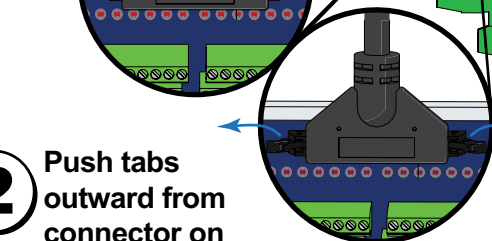
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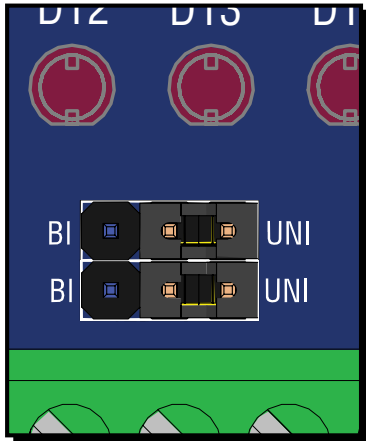
## ZIPLink Cable Removal

- 1 Located tabs on ZIPLink connector receptacle.

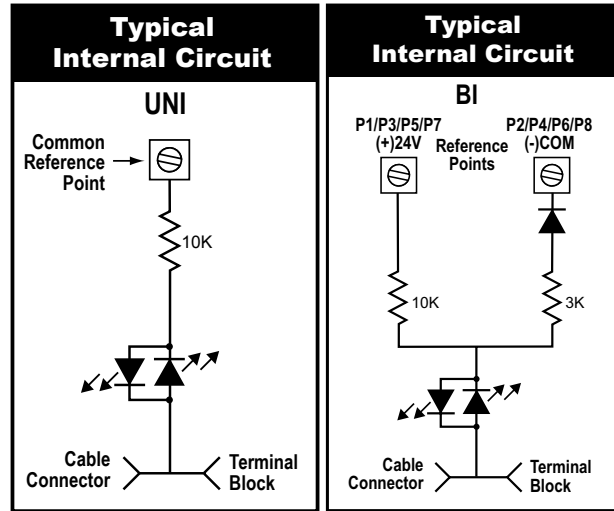


- 2 Push tabs outward from connector on ZIPLink receptacle to eject cable.

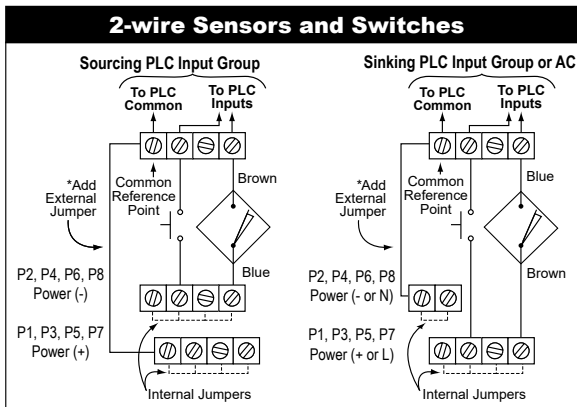




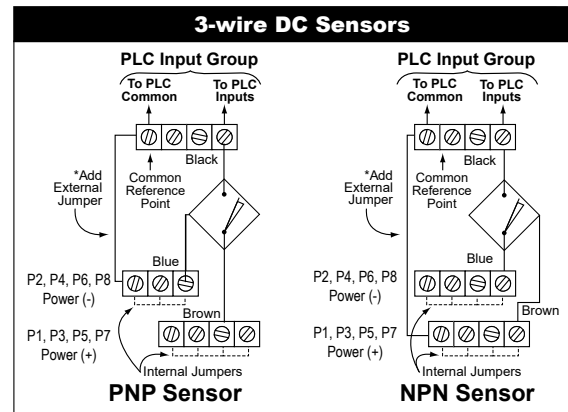
Install the jumpers for the input modules selected and set for all four banks of terminal blocks.



"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.



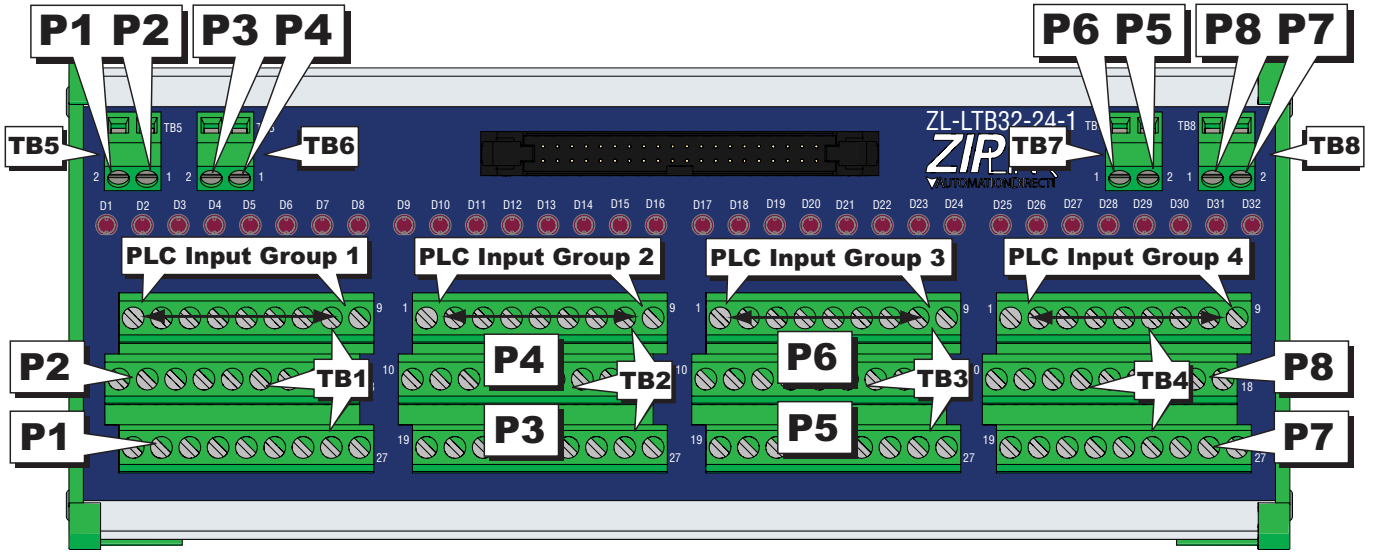
\*Note: TB1-1, TB2-1, TB3-1, TB4-1 must be supplied +24V for P2-32ND3



\*Note: TB1-1, TB2-1, TB3-1, TB4-1 must be supplied +24V for P2-32ND3

Input Module Application Table					
Family	Module	Pre-wired Cables	Voltage Range	Input Current Per Point (mA)	Jumper
DL205	D2-32ND3	ZL-D24-CBL40 (-1), (-2), (-X), (-1X), (-2X)	20-28 VDC	8mA @ 24VDC	Uni
	D2-32ND3-2	ZL-D24-CBL40 (-1), (-2), (-X), (-1X), (-2X)	4.5-15.6 VDC	4mA @ 5VDC, 11mA @ 12VDC, 14mA @ 15VDC	Uni
DL405	D4-32ND3-1	ZL-D24-CBL40 (-1), (-2), (-X), (-1X), (-2X)	20-28 VDC	5mA @ 24VDC	Uni
	D4-32ND3-2	ZL-D24-CBL40 (-1), (-2), (-X), (-1X), (-2X)	4.75-13.2 VDC	2.5 mA @ 5VDC, 7.5 mA @ 12VDC	Uni
	*D4-64ND2 (Connector CN1 & CN2)	ZL-D24-CBL40 (-1), (-2), (-X), (-1X), (-2X)	20-28 VDC	5mA @ 24VDC	Uni
P2000	P2-32ND3	ZL-CBL40 (-1) (-2)	10.2-26.4 VDC	2.5mA @ 12 VDC, 5mA @ 24 VDC	Bi
	P2-32NE3	ZL-CBL40 (-1) (-2)	20.4-27.6 VAC/VDC	3.4mA @ 24 VAC/VDC	Uni
P3000	P3-32ND3	ZL-CBL40 (-1) (-2)	24VDC	5mA @ 24VDC	Uni
	*P3-64ND3 (Connector A & B)	ZL-CBL40 (-1) (-2)	24VDC	2.7mA @ 24VDC	Uni

\*All 64-point modules require 2 ZIPLink Modules and 2 ZIPLink Cables.



Power Connections								
Circuit	Group 1		Group 2		Group 3		Group 4	
	Power In	Power Out	Power In	Power Out	Power In	Power Out	Power In	Power Out
± 12V or +24V	TB5 - Pin 2 (P1)	TB1 Pins 19-27 (P1)	TB6 - Pin 2 (P3)	TB2 Pins 19-27 (P3)	TB7 - Pin 1 (P5)	TB3 Pins 19-27 (P5)	TB8 - Pin 1 (P7)	TB4 Pins 19-27 (P7)
COM	TB5 - Pin 1 (P2)	TB1 Pins 10-18 (P2)	TB6 - Pin (P4)	TB2 Pins 10-18 (P4)	TB7 - Pin 2 (P6)	TB3 Pins 10-18 (P6)	TB8 - Pin 2 (P8)	TB4 Pins 10-18 (P8)

Connector Pin and Terminal Assignments							
Group 1		Group 2		Group 3		Group 4	
Connector Pin	TB1	Connector Pin	TB2	Connector Pin	TB3	Connector Pin	TB4
5	1	10	1	15	1	20	1
25	UNI: 1 BI: TB5(P2)	30	UNI: 1 BI: TB6(P4)	35	UNI: 1 BI: TB7(P6)	40	UNI: 1 BI: TB8(P8)
21	2	26	2	31	2	36	2
22	3	27	3	32	3	37	3
23	4	28	4	33	4	38	4
24	5	29	5	34	5	39	5
1	6	6	6	11	6	16	6
2	7	7	7	12	7	17	7
3	8	8	8	13	8	18	8
4	9	9	9	14	9	19	9
<b>TB5</b>							
1(P2)	10 thru 18	1(P4)	10 thru 18	1(P5)	19 thru 27	1(P7)	19 thru 27
2(P1)	19 thru 27	2(P3)	19 thru 27	2(P6)	10 thru 18	2(P8)	10 thru 18