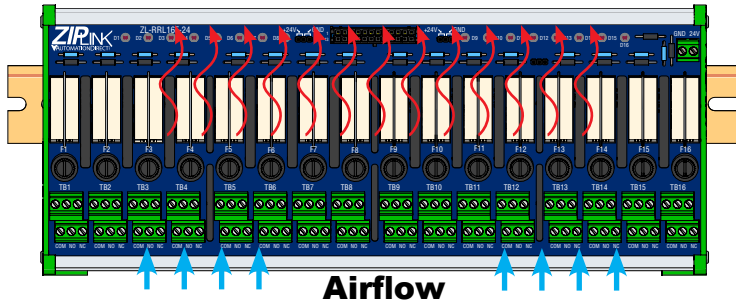
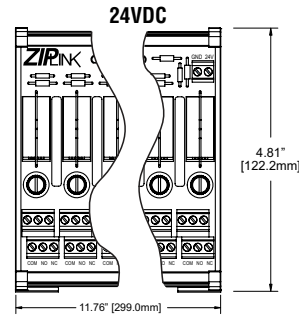


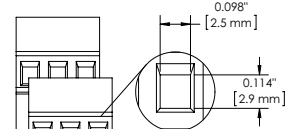
**Heat Dissipation Mounting Requirements**



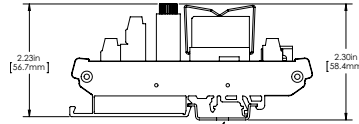
**IMPORTANT!** Mount Module horizontally to provide proper ventilation.



**WARNING:** We recommend installing up to a 0.75 Amp fast-blow fuse such as AGC-75 or similar in series with the power supply as an extra safety measure.



Terminal Block Insertion Point Opening Dimension

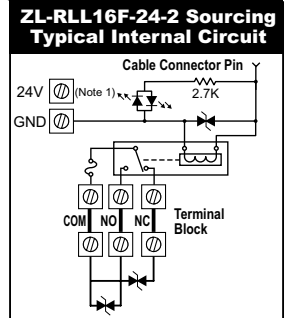
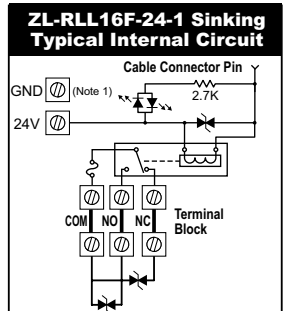


ZL-RRL16F-24-1 Sinking				
DirectLOGIC	Productivity3000	CLICK	Productivity2000	BRX
J1 +24V	J1 +24V	J1	J1 +24V	J1
J2	J2	J2 +24V	J2	J2
J3 +24V	J3 +24V	J3 +24V	J3 +24V	J3 +24V

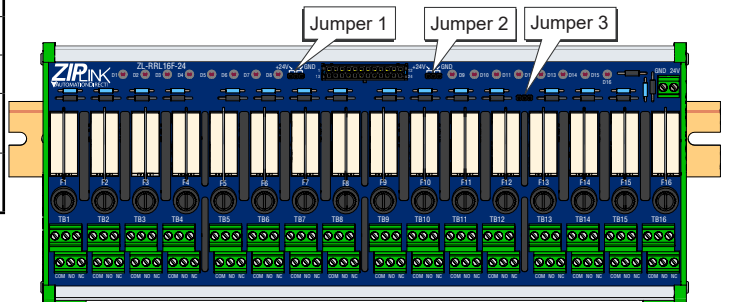
ZL-RRL16F-24-2 Sourcing				
DirectLOGIC	Productivity3000	CLICK	Productivity2000	BRX
J1	J1	J1 +24V	J1	J1 +24V
J2 +24V	J2 +24V	J2	J2 +24V	J2 +24V
J3	J3	J3	J3	J3

Jumper Position	Description
<b>J1, J2, and J3</b>	+24V GND Jumpers referenced above and below have this silkscreen on the PCB
<b>J1 +24V</b>	Connects +24VDC to Connector Pins 1,7,13, & 19
<b>J1 GND</b>	Connects GND to Connector Pins 1,7,13, & 19
<b>J2 +24V</b>	Connects +24VDC to Connector Pins 2, 8,14, & 20
<b>J2 GND</b>	Connects GND to Connector Pins 2, 8,14, & 20
<b>J3 +24V</b>	Factory set On ZL-RRL16F-24-1 Connects +24VDC to Relay Coil Commons
<b>J3 GND</b>	Factory set On ZL-RRL16F-24-2 Connects GND to Relay Coil Common

ZL-RRL16F-24 Pinouts	
Connector Pin	Relay
3	Relay 1 (TB1)
4	Relay 2 (TB2)
5	Relay 3 (TB3)
6	Relay 4 (TB4)
9	Relay 9 (TB9)
10	Relay 10 (TB10)
11	Relay 11 (TB11)
12	Relay 12 (TB12)
15	Relay 5 (TB5)
16	Relay 6 (TB6)
17	Relay 7 (TB7)
18	Relay 8 (TB8)
21	Relay 13 (TB13)
22	Relay 14 (TB14)
23	Relay 15 (TB15)
24	Relay 16 (TB16)



Note 1: See jumper notes.



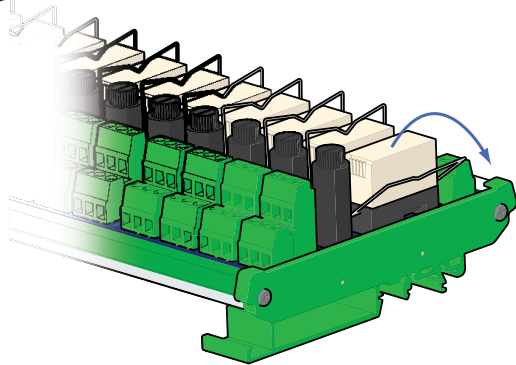
General Module Specifications		Relay Contact Specifications	
<b>Description</b>	16 Fused Output Relay module with LEDs, 24 VDC Coil	<b>Current Rating</b>	30VDC @ 8A General Use 250VAC @ 8A General Use
<b>Mechanical Life</b>	100,000,000 Operations no load condition	<b>Contact Type</b>	1 Form C (SPDT)
<b>Electrical Life</b>	1,000,000 Operations at rated resistive load	<b>Contact Voltage*</b>	250VAC/30VDC
<b>Operating Frequency</b>	6 cycles per minute electrical 300 cycles per minute mechanical	<b>Maximum Power Inductive</b>	2000VA General Use
<b>Isolation Coil to Contact</b>	2500VAC for 1 minute	<b>Maximum Power Resistive</b>	AC 2000VA, DC 240W
<b>Isolation NC Contact to NO Contact</b>	1000VAC for 1 minute	<b>Maximum Switching Voltage</b>	250VAC, 300VDC
<b>Isolation Between Relays</b>	1000VAC for 1 minute	<b>Minimum Load</b>	10mA @ 5VDC
<b>Red LED Indicator State Relay</b>	ON = relay energized, OFF = relay de-energized	<b>Contact Resistance</b>	100mΩ Max @ 1A, 6VDC 5FLA/30LRA, 250VAC 1/2 HP, 250VAC Pilot Duty B300-C300
<b>Operating Temperature Range</b>	32 to 140°F (0 to 60°C)	<b>Contact Capacity</b>	AgNi (Silver Nickel Alloy)
<b>Shock Resistance</b>	1000m/s <sup>2</sup> endurance, 100m/s <sup>2</sup> operation	<b>Coil Specifications</b>	
<b>Terminal Block Contacts</b>	Copper alloy, tin-lead plated	<b>Input Voltage Rating**</b>	24VDC (-20 / +30%)
<b>Wire Range*</b>	12-24 AWG Solid or Stranded Conductor	<b>Maximum Continuous Coil Voltage</b>	31.2VDC
<b>Wire Strip Length</b>	0.24-0.27 in (6-7 mm)	<b>Rated Current Per Coil</b>	16.7 mA (±10%) @ 24VDC
<b>Screw Torque</b>	4.4 in-lbs (0.5 Nm)	<b>Coil Resistance</b>	1440Ω (±10%)
<b>Connector Type</b>	Molex Micro-Fit 3.0, 24 pin connector, example receptacle 43020-2400, Pins 43031 Series, Male	<b>Power Consumption Per Coil</b>	0.4 W
<b>Replacement Relays</b>	ZL-RELAY-F24X4, Qty. 4/pkg	<b>Total Coil Supply Current Max.</b>	400mA (Total 16 relays)
<b>Fuses (Sold Separately)</b>	Sixteen 5X20mm, 250V	<b>Pick Up Current Max. Per Coil</b>	15mA
<b>Replacement Fuses</b>	See Edison 5X20mm Glass Fuse section range up to Max. 10	<b>Drop-Out Voltage Min.</b>	1.2 VDC
<b>Cable/Wire Clearance</b>	0.5in (12.7mm)	<b>Pick-Up Voltage Max.</b>	19.2 VDC
<b>Weight</b>	930g (32.8 oz)	<b>Off to On/On to Off Response Time</b>	12mS/8mS
<b>Approvals</b>	File # E139594 UL, cUL 508, CE, EN 61131-2:2007		

\*Use conductors rated 60°/75°C for relay outputs.

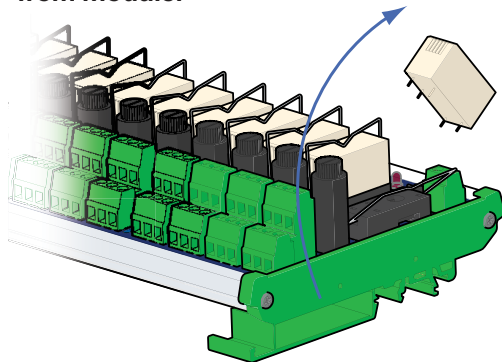
\*\*Relay modules are reverse polarity protected and will not operate if reverse voltage is connected.

### Remove or Install Relay

**1** Rotate retaining clip away from relay.



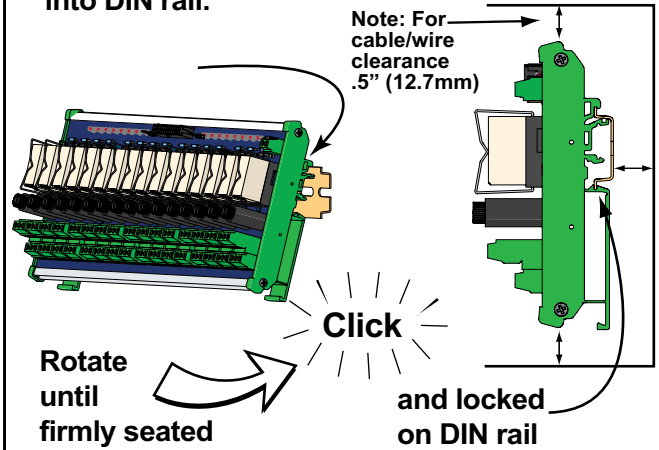
**2** Remove relay from module.



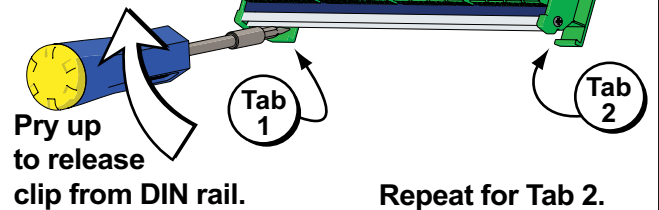
Reverse procedure to replace relay.

### 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.

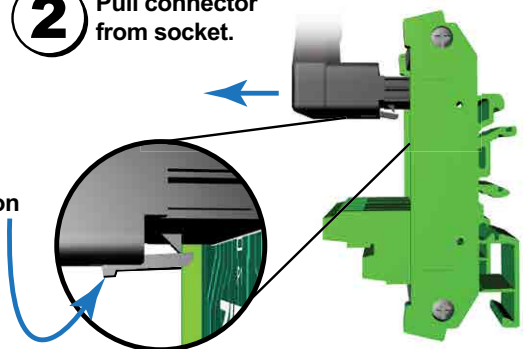
If you have any questions concerning the installation or operation of this equipment, or if you need additional information, please call Technical Support at 770-844-4200.

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### ZIPLink Cable Removal

**2** Pull connector from socket.

**1** Push tab on raised tip and hold.



For Replacement Relay  
 Use ZL-RELAY-F24X4, Qty. 4/pkg.

Part Number	Revision	Date
ZL-RRL16F-24	4th Ed.	1/24/2018