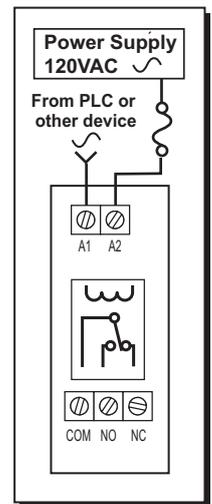
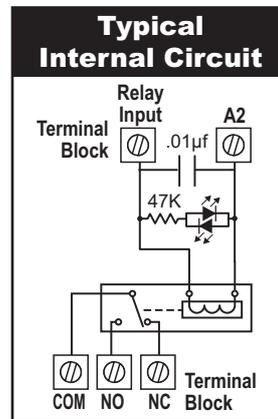
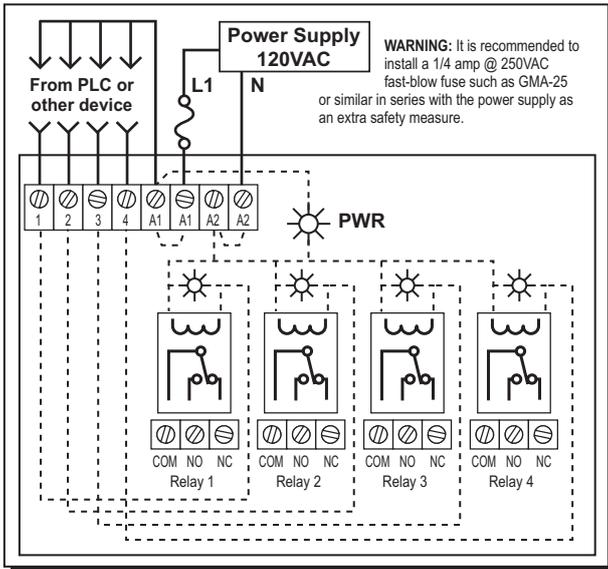


ZL-RLS4-120



ZL-RLS1-120

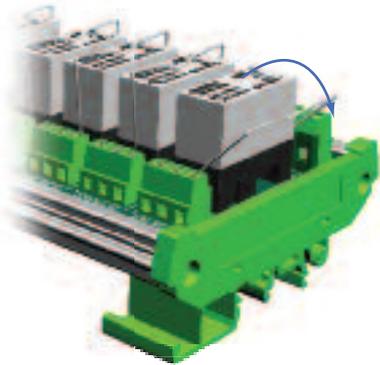


| General Module Specifications | | Relay Contact Specifications | | |
|--|---|--|--|--|
| Description | ZL-RLS1-120 | Single output socketed relay(s) for 120VAC relay with LEDs | Current Rating | |
| | ZL-RLS4-120 | Four output socketed relay(s) for 120VAC relay with LEDs | | |
| Mechanical Life | 10,000,000 Operations at no load condition | | Contact Type | |
| Electrical Life | 100,000 Operations at rated resistive load | | Contact Voltage * | |
| Operating Frequency | 20 cycles per minute electrical 300 cycles per minute mechanical | | Maximum Power Inductive | |
| Isolation Coil to Contact | 2500VAC for 1 minute | | Maximum Power Resistive | |
| Isolation NC Contact to NO Contact Same Relay | 1000VAC for 1 minute | | Maximum Switching Voltage | |
| Isolation Between Relays | ZL-RLS1-120 | N/A | Minimum Load | |
| | ZL-RLS4-120 | 1000VAC for 1 minute | | |
| Red LED Indicator State Relay | ON = relay energized, OFF = relay de-energized | | Contact Resistance | |
| Surrounding Temperature Range | 32 to 140°F (0 to 60°C) | | Contact Material | |
| Humidity Range | 45 to 85% RH | | Relay Coil Specifications | |
| Vibration Resistance | 10 to 55 Hz dual amplitude width 1.5mm | | Input Voltage Rating | 115VAC (-20%/+30%), 50-60Hz |
| Shock Resistances | 1000m/s ² endurance 100m/s ² operation | | Maximum Continuous Coil Voltage | 150VAC |
| Terminal Block Contacts | Copper alloy, tin-lead plated | | Rated Current Per Coil | 7.65mA (±10%) @ 115VAC 50Hz 6.30mA (±10%) @ 115VAC 60Hz |
| Wire Range* | 12-24AWG Solid or Stranded Conductor | | Coil Resistance | 8100Ω (±10%) |
| Wire Strip Length | 0.24-0.27" (6-7mm) | | Power Consumption Per Coil | 0.88W @ 50Hz 0.73W @ 60Hz |
| Screw Torque | 4.4 in-lbs (0.5 Nm) | | Drop-Out Voltage Min. | 34.5VAC |
| Dimensions (WxHxD) | ZL-RLS1-120 | 0.88" x 3.04" x 2.14" (22.4mm x 77.2mm x 54.3mm) | Pick-Up Voltage Max. | 92VAC |
| | ZL-RLS4-120 | 3.71" x 3.42" x 2.14" (94.3mm x 86.8mm x 54.3mm) | | |
| Replacement Relays | ZL-RELAY-120X4, Qty. 4/pkg | | Off to On/On to Off Response Time | 12ms/8ms |
| Approvals | File # E157382 UL, cUL 508, CE, EN 61131-2:2007 | | | |
| Cable/Wire Clearance | 0.5" (12.7mm) top and bottom | | | |

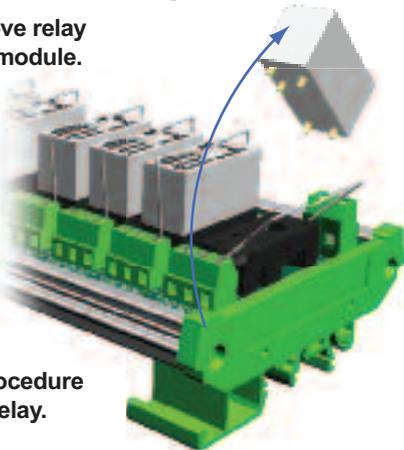
*Use conductors rated 60°/75°C for relay outputs.

Remove or Install Relay

1 Rotate retaining clip away from relay.



2 Remove relay from module.

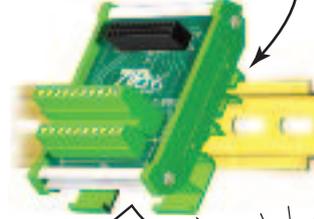


Reverse procedure to replace relay.

DIN Rail Installation and Removal

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

Note: For cable/wire clearance requirements see specifications.

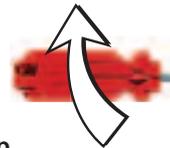


Rotate until firmly seated

Click

and locked on DIN rail.

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



Pry up to release clip from DIN rail.

Tab 1

Tab 2

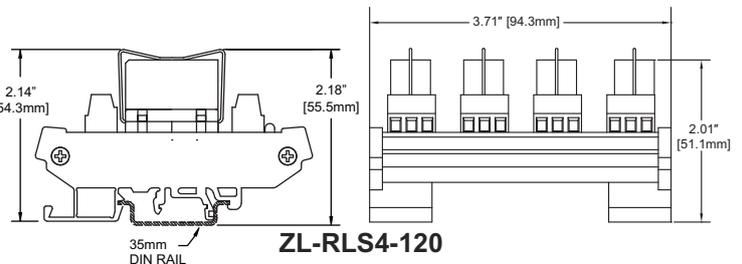
Repeat for Tab 2.

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.

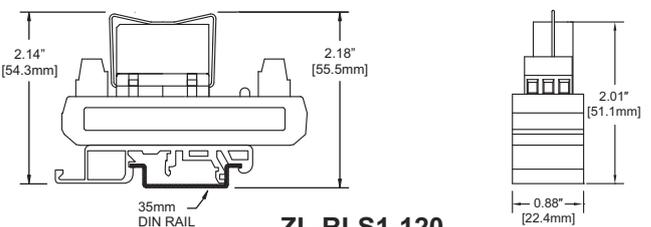
Equipment damage or serious injury to personnel can result from the failure to follow all applicable codes and standards. We do not guarantee the products described in this publication are suitable for your particular application, nor do we assume any responsibility for your product design, installation,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

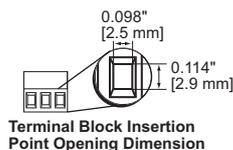
This publication is based on information that was available at the time it was printed. At AutomationDirect.com® we constantly strive to improve our products and services, so we reserve the right to make changes to the products and/or publications at any time without notice and without any obligation. This publication may also discuss features that may not be available in certain revisions of the product.



ZL-RLS4-120



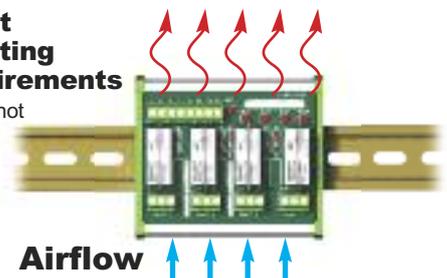
ZL-RLS1-120



Terminal Block Insertion Point Opening Dimension

ZL-RLS4-120 Heat Dissipation Mounting Orientation Requirements

Note: ZL-RLS1-120 does not have mounting orientation requirements.



Airflow

IMPORTANT! Mount Module horizontally to provide proper ventilation.

12/1/2008 Document # ZL-RLS1-120_ZL-RLS4-120 Rev2