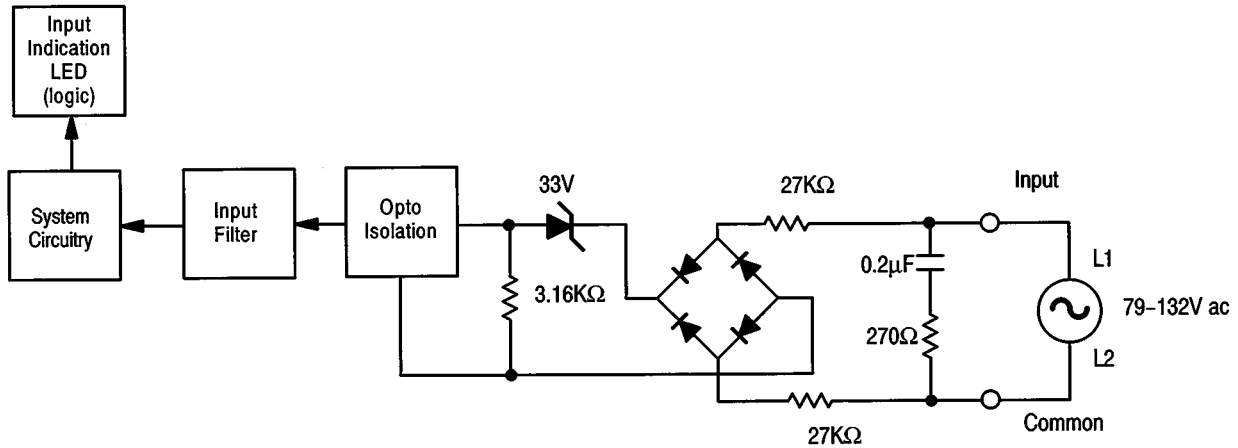


AC Input Module (Cat. No. 1791-32A0 Series B)

Simplified Schematic

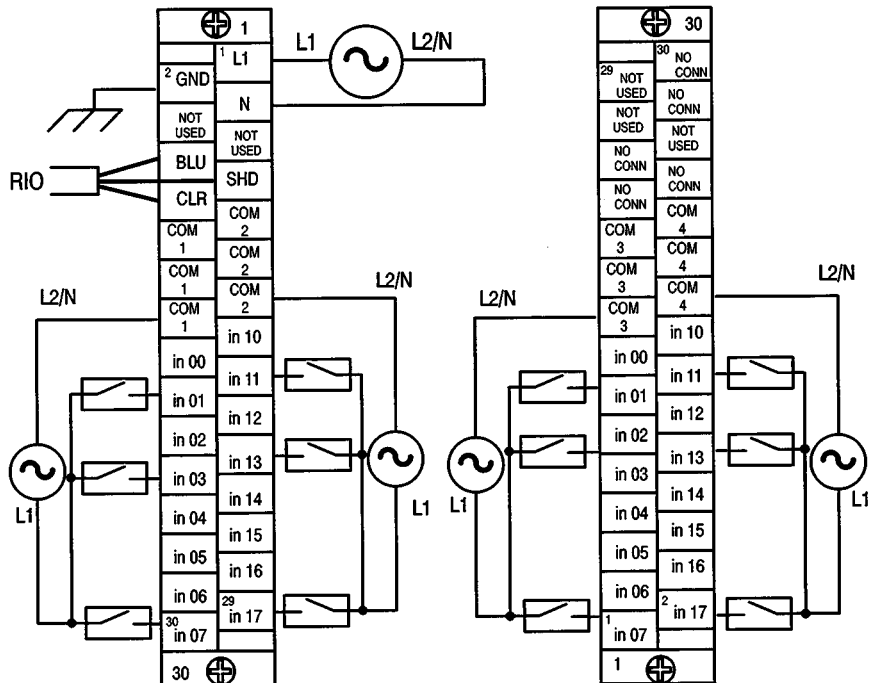


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Application Notes

- Product Compatibility.** This module is designed to operate with ac limit switches, selector switches, float switches, proximity switches and pushbutton switches.
- Connection to Input Module.** You can use the outputs of a 1791-0A32 module or 1791-16AC module to directly drive terminals on a 1791-32A0 input module.
- Status Indicators.** The front panel has 32 input status indicators, one communication indicator and one status indicator. The input status indicators are illuminated when its corresponding input circuit has voltage applied. The indicators are provided for logic side indication of individual inputs. The comm indicator is on when communication is established. The status indicator is on when an error has occurred in either the hardware or software.

Connection Diagram - PLC



NOTE: COM 1 connections are internally connected together.
COM 2 connections are internally connected together.
COM 3 connections are internally connected together.
COM 4 connections are internally connected together.

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1791-32A0 Series B Specifications

Input Specifications

Inputs per Block	32 (4 groups of 8)
Nominal Input Current	11.0mA
Nominal Input Voltage	120V ac
On-state Voltage Range	79–132V ac, 47–63Hz
Off-state Voltage	Maximum
On-state Current	Minimum Maximum
Off-state Current	Minimum
Input Impedance	Maximum
Input Signal Delay	Off to on On to off

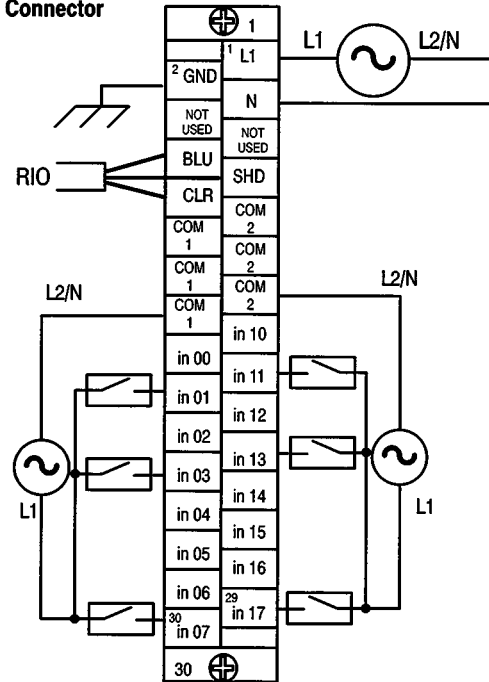
General Specifications

External Power (internally protected - no external fuse required)	Voltage Current	85–132V ac, 47–63Hz 150mA
Dimensions	Inches Millimeters	6.95H X 4.35W X 3.85D 176.5H X 110.5W X 98D
Isolation	Power supply to RIO I/O Group-to-Group I/O Group-to-Logic	500V ac 1250V ac 1250V ac
Power Dissipation	Maximum	13.62 Watts
Thermal Dissipation	Maximum	46.44 BTU/hr
Environmental Conditions	Operational Temperature Storage Temperature Relative Humidity	0 to 60°C (32 to 140°F) –40 to 85°C (–40 to 185°F) 5 to 95% noncondensing
Conductors	Wire Size Category	14 gauge stranded maximum 3/64 inch (1.2mm) insulation maximum 1 ¹
Installation Instructions		1791-2.14

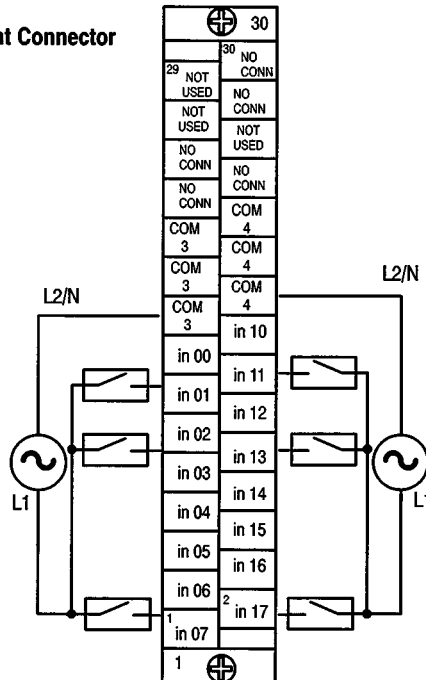
¹ You use this conductor category information for planning conductor routing as described in the system level installation manual.

Connection Diagram – SLC

Left Connector



Right Connector



NOTE: COM 1 connections are internally connected together.
 COM 2 connections are internally connected together.
 COM 3 connections are internally connected together.
 COM 4 connections are internally connected together.