

24 Volt DC Positive/Negative Logic Input, 8 Point

IC693MDL634

The **24 volt DC Positive/Negative Logic Input** module for the Series 90-30 Programmable Logic Controller provides 8 input points in one group with a common power input terminal. This input module is designed to have either positive logic or negative logic characteristics. Input characteristics are compatible with a wide range of user-supplied input devices, such as pushbuttons, limit switches, and electronic proximity switches. Current into an input point results in a logic 1 in the input status table (%I). Power to operate the field devices can be supplied by the user, or an Isolated +24 VDC supply on the power supply (+24V OUT and 0V OUT terminals) can power a limited number of inputs.

LED indicators which provide the ON/OFF status of each point are located at the top of the module. This LED block has two horizontal rows with eight green LEDs in each row; the top row labeled A1 through 8 (points 1 through 8) is used by this module. An insert goes between the inside and outside surface of the hinged door. The surface towards the inside of the module (when the hinged door is closed) has circuit wiring information, and circuit identification information can be recorded on the outside surface. The outside left edge of the insert is color-coded blue to indicate a low-voltage module. This module can be installed in any I/O slot of a 5 or 10-slot baseplate in a Series 90-30 PLC system.

Table 6-6. Specifications for IC693MDL634

Rated Voltage	24 volts DC
Input Voltage Range	0 to +30 volts DC
Inputs per Module	8 (one group with a single common)
Isolation	1500 volts between field side and logic side
Input Current	7 mA (typical) at rated voltage
Input Characteristics	
On-state Voltage	11.5 to 30 volts DC
Off-state Voltage	0 to +5 volts DC
On-state Current	3.2 mA minimum
Off-state Current	1.1 mA maximum
On response Time	7 ms typical
Off response Time	7 ms typical
Power Consumption: 5V	45 mA (all inputs on) from 5 volt bus on backplane
Power Consumption: 24V	62 mA from the Isolated 24 volt backplane bus or from user supplied power

Refer to Appendix B for product standards and general specifications.

IC693MDL634 Input Module Field Wiring Information

The following figure provides wiring information for connecting user supplied input devices and power source to the 24 volt DC positive/negative logic input module.

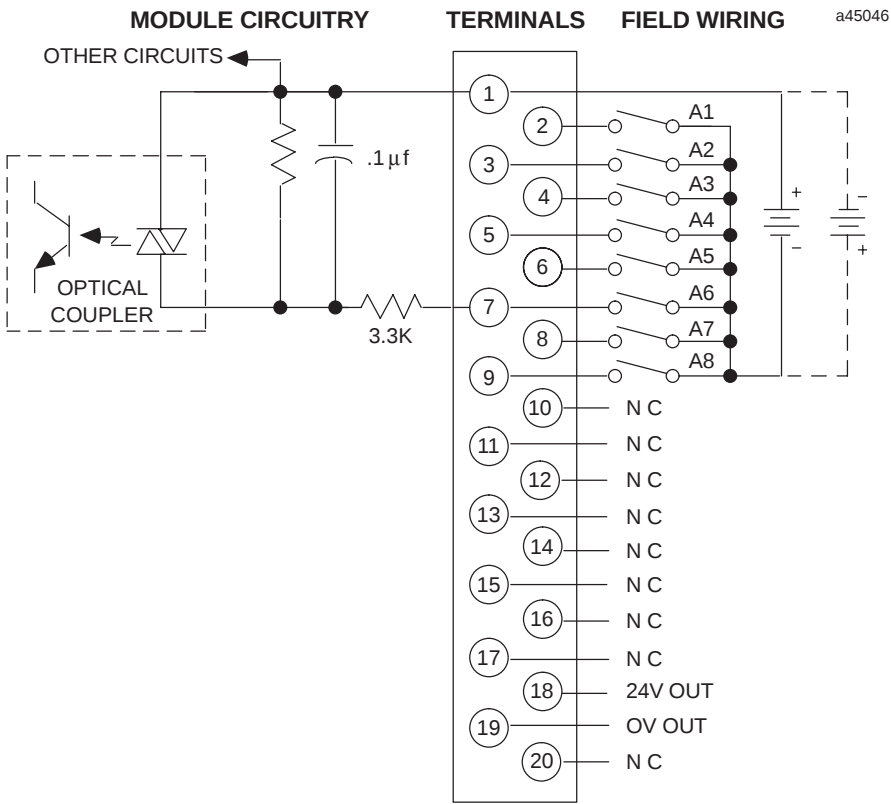


Figure 6-9. Field Wiring - 24 Volt Positive/Negative Logic Input Module - IC693MDL634

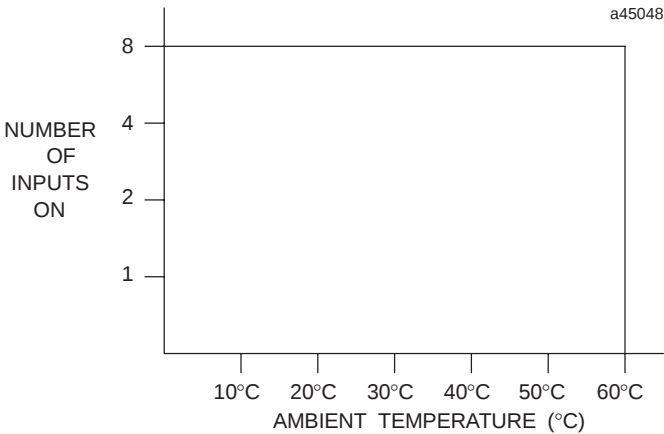


Figure 6-10. Input Points vs. Temperature for IC693MDL634

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