

M91-2-R6C

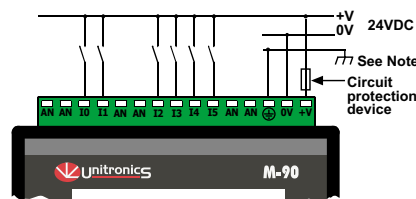
24VDC, 6 pnp/npn digital inputs, 6 analog inputs, 1 high-speed counter/shaft encoder input, 6 relay outputs, I/O expansion port, RS232/RS485, CANbus

Power supply	
Permissible range	24VDC 20.4VDC to 28.8VDC with less than 10% ripple
Maximum current consumption	130mA@24VDC (pnp inputs) 180mA@24VDC (npn inputs)
Digital inputs	
	6 pnp (source) or npn (sink) inputs. See Note 1.
Nominal input voltage	24VDC. See Note 2.
Input voltages for pnp (source):	0-5VDC for Logic '0' 17-28.8VDC for Logic '1'
Input voltages for npn (sink):	17-28.8VDC/<2mA for Logic '0' 0-5VDC/>6mA for Logic '1'
Input current	8mA@24VDC
Input impedance	3KΩ
Response time (except high-speed inputs)	10mS typical
Galvanic isolation	None
Input cable length	Up to 100 meters, unshielded
High-speed counter	
	Specifications below apply when inputs are wired for use as a high-speed counter input/shaft encoder. See Notes 3 and 4.
Resolution	16-bit
Input frequency	10kHz max.
Minimum pulse	40μs

Notes:

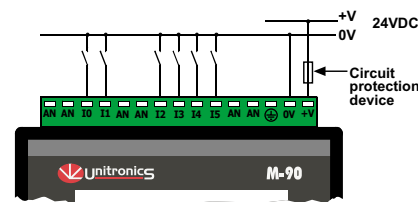
- All 6 inputs can be set to pnp (source) or npn (sink) via a single jumper and appropriate wiring.
- npn (sink) inputs use voltage supplied from the controller's power supply.
- Input #0 can function as either high-speed counter or as part of a shaft encoder. In either case, high-speed input specifications apply. When used as a normal digital input, normal input specifications apply.
- Input #1 can function as either counter reset, or as a normal digital input; in either case, specifications are those of a normal digital input. This input may also be used as part of a shaft encoder, in this case, high-speed input specifications apply.

Power supply, pnp (source) inputs

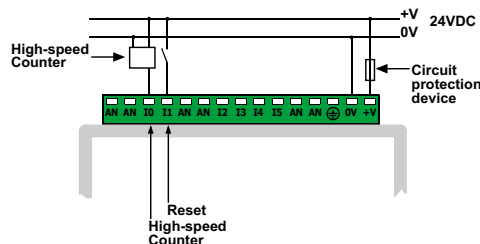


Note:
To avoid electromagnetic interference, mount the controller in a metal panel/cabinet and earth the power supply. Earth the power supply signal to the metal using a wire whose length does not exceed 10cm. If your conditions do not permit this, do not earth the power supply.

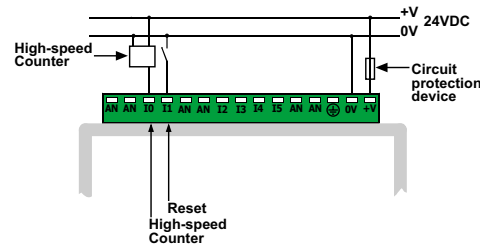
npn (sink) inputs



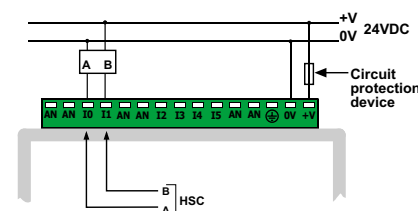
pnp (source) high-speed counter



npn (sink) high-speed counter



Shaft encoder



Warnings:

- Unused pins should not be connected. Ignoring this directive may damage the controller.
- Improper use of this product may severely damage the controller.
- Refer to the controller's User Guide regarding wiring considerations.
- Before using this product, it is the responsibility of the user to read the product's User Guide and all accompanying documentation.

Digital Inputs type

In this figure, the jumper settings will cause the controller to function as follows:

Digital inputs: npn

Analog input #0: Voltage input

Analog input #1: Current input

