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Data Sheet

5100-C Digital Output Module

+24 VDC Sourcing

DO	24VDC	C
8 Digital Output Sourcing		

Description

- ▶ Eight +24 VDC sourcing digital outputs (internal PNP transistor to +24VDC)
- ▶ High current: 375 mA per output / 3 A per module
- ▶ Individual LED status indicator for each input

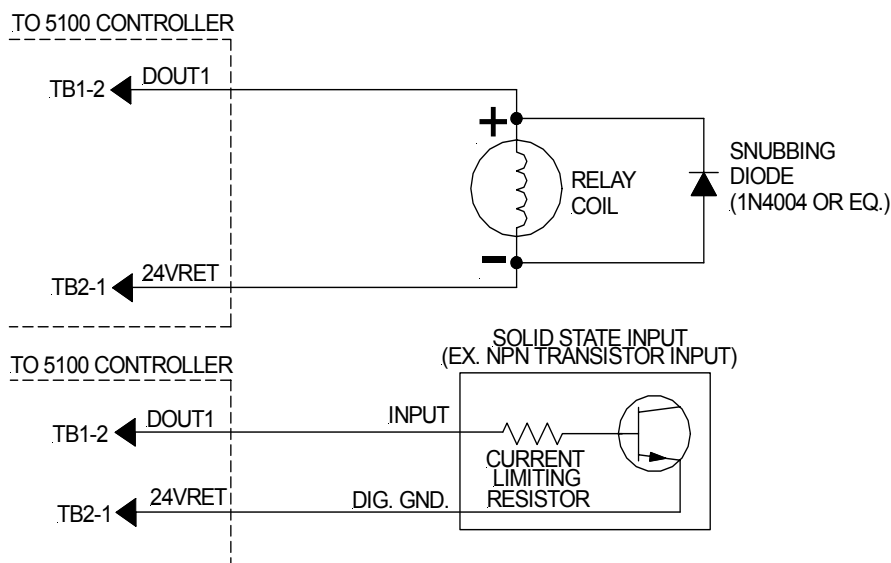
5100-C Specifications

Parameter	Value	Description
General		
Number of outputs	8	
Output type	+24 VDC sourcing	PNP transistor to +24VDC of the 5100 controller.
Status Indicator	1 LED per output	Each output has a red LED that is located on the field side on the control circuit.
Isolation rating	500 VDC	The minimum isolation voltage between the I/O and the CPU circuitry.
Model type	5120	Identifier for the hardware and software type
Performance		
Output Current: - Note 1		
IOH per channel	375 mADC	The maximum 'ON' current that any given output can source.
IOH per module	3 ADC	The maximum current that all the outputs of a module can source at a given time.
IOH per controller	3 ADC	The maximum current that all the outputs of the controller can source at a given time.
ILEAK per channel	100 μ ADC	The maximum leakage current with the output in the 'OFF' state.
Output Voltage:		
Minimum V_{OH}	22 VDC	The minimum 'ON' voltage at full load ($V_{supply} = 24VDC$).
Maximum V_{OL}	0 VDC	The maximum 'OFF' voltage, 10K Ω resistor to +24VRET.
Output Response Time	0.100 mSec	The maximum time duration between when the module receives the command from the 5100 main processor and when the output signal changes.
Environmental		
Temperature		
Operating	0 to 50°C	Refer to the 5100 Controller Data Sheet for proper mounting instructions.
Storage	-25 to 85°C	

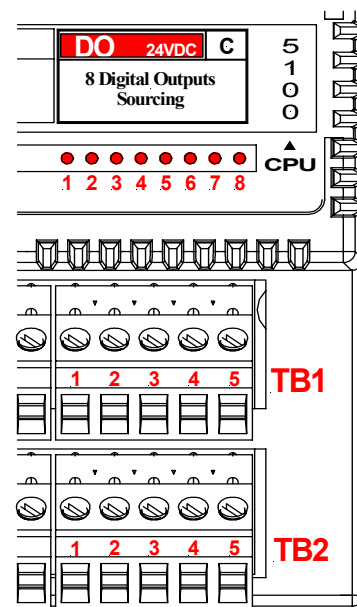
1. With proper mounting as described in the Model 5100 Controller Data Sheet

Application Information

Typical Application



Module Identification



I/O Terminations

TB1-1		+24VDC
TB1-2	LED1	Dout #1
TB1-3	LED3	Dout #3
TB1-4	LED5	Dout #5
TB1-5	LED7	Dout #7
TB2-1		+24VRET
TB2-2	LED2	Dout #2
TB2-3	LED4	Dout #4
TB2-4	LED6	Dout #6
TB2-5	LED8	Dout #8

Notes



1. If an output is used to drive transistor loads, proper current limiting must be observed.
2. If an output is used to drive inductive loads, inductive kicks must be limited via high-speed diodes and/or equivalent devices.
3. When a digital device is powered via an external power source, it may be necessary to tie the ground of this power source to the module's 24V ground (+24VRET).
4. The total combined output current for the module must not exceed 300 mA (assuming proper mounting as described in the Model 5100 Controller Data Sheet).
5. For register and programming information, refer to the Model 5100 Applications Guide.

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