

Modicon 140 DDO 353 10

24 Vdc Out 4x8 Sink Module

Specifications and Wiring Diagram

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The **24 Vdc True Low 4x8 Output** module switches 24 Vdc loads capable of driving displays, logic, and other loads up to 500 mA sinking in the ON state.

Specifications

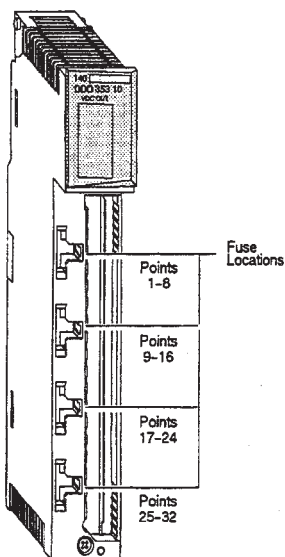
Number of Output Points	32 output points in four 8 point groups
LEDs	Active F 1 ... 32 (Green) - Indicates point status
Required Addressing	2 Words Out
Voltage	
Operating (max)	19.2 ... 30 Vdc
1.0 ms	50 Vdc decaying pulse
ON State Drop / Point	0.4 Vdc @ 0.5 A
Maximum Load Current	
Each Point	0.5 A
Each Group	4 A
Per Module	16 A
OFF State Leakage/Point	0.4 mA @ 30 Vdc
Surge Current Maximum	
Each Point	5 A @ 1 ms duration (no more than 6 per minute)
Response (Resistive Loads)	
OFF - ON	1 ms (max)
ON - OFF	1 ms (max)
Fault Detection	Blown fuse detect, loss of field power
Isolation	
Group to Group	500 Vac rms for 1 minute
Output to Bus	1780 Vac rms for 1 minute
Load Inductance Maximum	0.5 Henry @ 4 Hz switch frequency
	or
	$L = \frac{0.5}{I^2 F}$ where: L = Load Inductance (Henry) I = Load Current (A) F = Switching Frequency (Hz)
Load Capacitance Maximum	50 µF
Tungsten Load Maximum	12 W @ 24 Vdc
Output Protection (internal)	Transient voltage suppression: 36 V

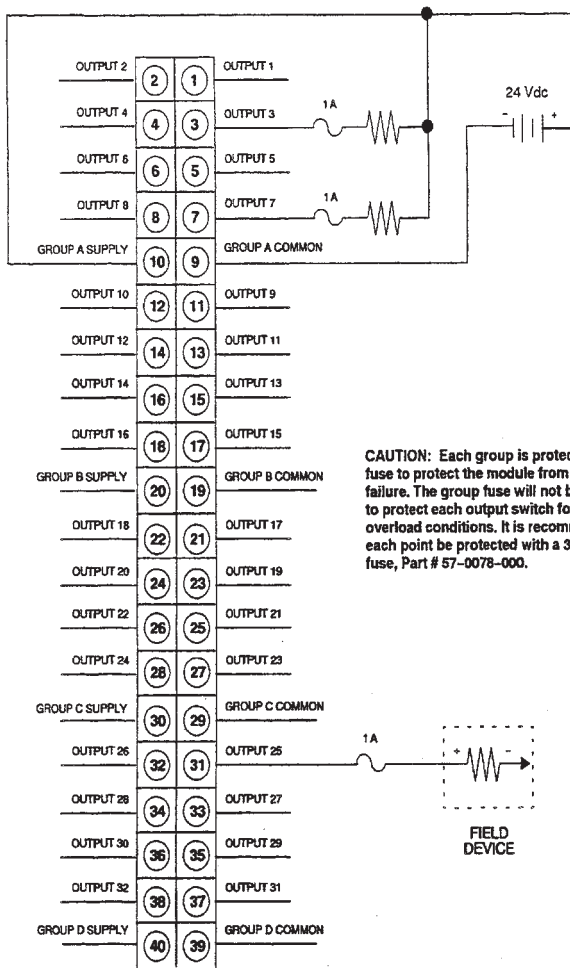


Specifications (cont'd)

Bus Current Required	330 mA max
Power Dissipation	2.0 W + (0.4 V x Total Load Current)
External Power	19.2 ... 30 Vdc
Fusing	
Internal	5.0 A fuse per group Part # 043502405 For the location of the fuses see next page.
External	Each group is protected with a 5 A fuse to protect the module from catastrophic failure. The group fuse is not guaranteed to protect each output switch for all possible overload conditions. It is recommended that each point be protected with a 3/4 A, 250 V fuse, Part # 57-0078-000.

 **Note:** Turn off power to the module and remove the field wiring terminal strip to gain access to fuses.





CAUTION: Each group is protected with a 5 A fuse to protect the module from catastrophic failure. The group fuse will not be guaranteed to protect each output switch for all possible overload conditions. It is recommended that each point be protected with a 3/4 A, 250 V fuse, Part # 57-0078-000.

For more information about the Quantum TSX Automation Series, please obtain a copy of the *Quantum TSX Automation Series Hardware Reference Guide* (840 USE 100 00) from your distributor or local sales office.

