



2500C-16-DO-120V Discrete Output Module



DESCRIPTION

The 2500C-16-DO-120V Module outputs a wide range of AC voltage signals. It is designed to provide 16 solid state output circuits to switch on or off external devices such as pilot lamps, motor starters or solenoids using a 120VAC external source. Front panel LEDs provide visual indication for output and fuse status.

FEATURES

- Single wide module •
- 16 channels isolated in groups of 8 channels •
- Each group of 8 is individually fused •
- Sourcing or sinking Outputs •
- Channel On/Off Status Indication ٠
- Blown fuse indication and reporting for each • group in Classic Plus Mode
- Module supports Classic Plus and Classic Mode • Logon. Ships in default Classic Plus Mode.
- Uses CTI's 2500C-32F Connector

2500C-16-DO-120V Default Shipment Settings							
Operation Mode	СР						
Logon 8X /16Y							
Signal Range 79-132VAC							

Output Specifications					
Outputs per module	16				
Module Logon Classic Plus Mode selected with JP2.	8X /16Y				
Module Logon Classic Mode selected with JP2.	16Y				
Output Voltage Range	79-132 VAC				
Maximum Output current	.5 A @ 25° .25A @ 60°C				
Maximum Surge Current	6.5A for 15 sec				
"ON" State Voltage Drop	NA				
"OFF" State Leakage Current	750µA @ 120VAC				
Turn ON Time	1/2 AC cycle				
Turn OFF Time	1/2 AC cycle				
Fusing 🕂	Groups of 8				
Fuses: 2 Field Replaceable Fuses	4.0 AAC, 250V Type Littlefuse #0216004.HXP				

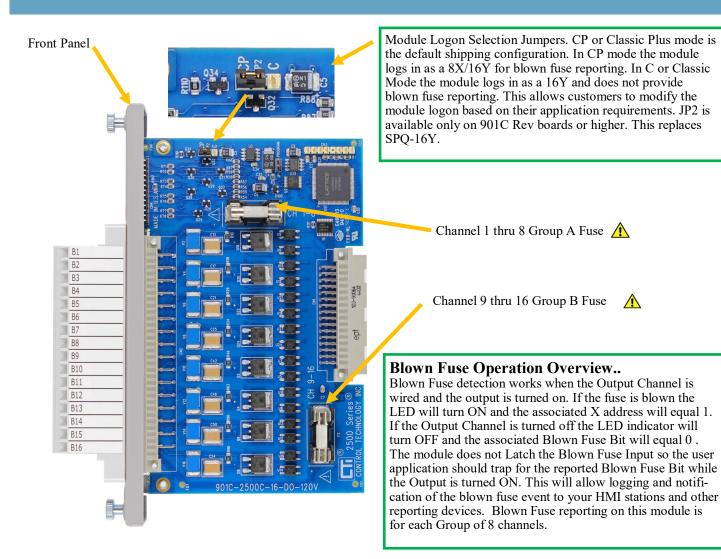
Module Size	Single wide module					
Connector	2500C-32F					
Backplane Power (MAX)	1.25 watt (all Channels ON)					
Input ESD Protection	IEC 1000-4-2 Level 4					
Isolation (2 groups of 8 channels)	300VAC Group to Group 1500VDC channel to backplane					
Shipping Dimensions and Weight	223.84mm x 109.86mm x 34.93mm, 0.234kg					
Operating Temperature Range	0°C to 60°C (32°F to 140°F)					
Storage Temperature Range	-40°C to 85°C (-40°F to 185°F)					
Relative Humidity	5% to 95% (non-condensing)					
Agency Approvals Pending	UL, ULC, UL Class 1, Div 2, CE					

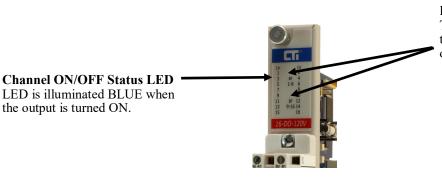
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Blown Fuse LED The Blown Fuse LED is illuminated when the Module detects a Blown Fuse. There is one LED per Group.



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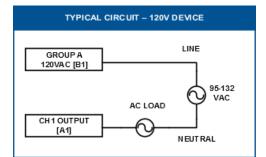




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Channel 1	Output	A1		B1	120VAC	Group A
Channel 2	Output	A2	A2 A1 B2 B1	B2		
Channel 3	Output	A3	A3 B3	B3		
Channel 4	Output	A4	A4 B4	B4		
Channel 5	Output	A5	A5 B5	B5		
Channel 6	Output	A6	AG BG	B6		
Channel 7	Output	A7		B7		
Channel 8	Output	A8	A8 B8	B8		•
Channel 9	Output	A9	A9 B9	B9	120 VAC	Group B
Channel 10	Output	A10	A10 B10	B10		
Channel 11	Output	A11	A11 B11	B11		
Channel 12	Output	A12	A12 B12	B12		
Channel 13	Output	A13	A13 B13	B13		
Channel 14	Output	A14		B14		
Channel 15	Output	A15	A15 B15	B15		
Channel 16	Output	A16	A16 B16	B16		
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2500C-16-DO-120V Wiring Connector



Note:

The 2500C-16-DO-120V Discrete Output Modules use CTI Wiring Connector 2500C-32F. Please see the wiring connector specification table below. This connector is ordered separately from the module.

2500C-32F Specifications							
Connector Style	Removable						
Number of Wiring Connections	32 point						
Wire Gauge Use Copper Conductors Only	14 to 22AWG						
Screw Torque Value	5.22 lb-in						
Current Rating	6A @ 300VAC						
Insulation Stripping Length	0.24" 6mm						
Connector Material							
Body:	Polycarbonate UL 94V0						
Screw :	M3 Zinc plated Steel						
Cage Clamp	Nickel Plated Brass						
Socket Contact Spring:	Tin Plated Bronze						
Retaining Screw:	M3 Zinc Plated Steel						

Application Note: If you are replacing a larger 2500 Classic System with a 2500 Compact System you must verify the configuration requirements for each module, due to the potential differences in log-in memory addresses and configuration requirements.

2500C-16-DO-120V PLC Log on 8X/16Y															
	Blown Fuse Reporting 8X Blown Fuse = 1														
X1 Blown Fuse Group A Channels 1 through 8 X2 Blown Fuse Group B Channels 9 through 16								16							
	X3 through X8 are unused														
Output Channel $16Y$ OFF = 0 ON = 1															
CH 1	CH 2	CH 3	CH 4	CH 5	CH 6	CH 7	CH 8	CH 9	CH 10	CH 11	CH 12	CH 13	CH 14	CH 15	CH 16
Y9	Y10	11	Y12	Y13	Y14	Y15	Y16	Y17	Y18	Y19	Y20	Y21	Y22	Y23	Y24



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CAUTION - Non-Hazardous Areas/Hazardous Areas

WARNING – EXPLOSION HAZARD. DO NOT REMOVE OR REPLACE WHILE CIRCUIT IS LIVE UNLESS THE AREA IS FREE OF IGNITIBLE CONCENTRATIONS.	AVERTISSEMENT – RISQUE D'EXPLOSION. NE PAS RETIRER NI REMPLACER PENDANT QUE LE CIRCUIT EST SOUS TENSION À MOINS QUE L'EMPLACEMENT NE SOIT EXEMPT DE CONCENTRATIONS INFLAMMABLES.
WARNING – EXPLOSION HAZARD. DO NOT REMOVE OR REPLACE FUSE WHEN ENERGIZED.	AVERTISSEMENT – RISQUE D'EXPLOSION. NE PAS RETIRER NI REMPLACER UN FUSIBLE SI L'APPAREILLAGE EST SOUS TENSION.

Turn off power to the system before replacing fuses either in power supplies or IO modules. Refer to Product Bulletin or Installation and Operation Guide for specific information on the correct fuse for replacement. If there are any questions please contact CTI support. Fuses should only be replaced by qualified technicians.



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