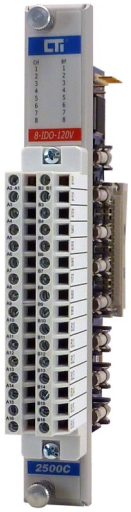
2500 Series Compact System

2500C-8-IDO-120V Discrete Output Module



DESCRIPTION

The 2500C-8-IDO-120V Module outputs a wide range of AC voltage signals. It is designed to provide 8 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
- 8 individually isolated channels
- Each channel is individually fused
- Sourcing or sinking Outputs
- Channel On/Off Status Indication
- Blown fuse indication and reporting for each channel
- Uses CTI's 2500C-32F Connector
- Module supports hot swapping

2500C-8-IDO-120V Default Shipment Settings	
Operation Mode	NA
Logon	8X /8Y
Output Range	79-265VAC

Output Specifications	
Outputs per module	8
Module Logon	8X /8Y
Output Voltage Range	79-265 VAC
Maximum Output current per channel	1 A @ 45ºC .625A @ 60ºC
Maximum Surge Current	3A for 15 sec
Total Module Current	8 A @ 45ºC 5A @ 60ºC
"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	8 fuses
Fuses: **8 Field Replaceable Fuses**	2.0 amp, 250V Type Schurter 0034.0904

Module Size	Single wide module
Connector	2500C-32F
Backplane Power (MAX)	1.09 watts
Input ESD Protection	IEC 1000-4-2 Level 4
Isolation	1500 VDC Channel to Backplane 300 VAC Channel to Channel
Shipping Dimensions and Weight	223.84mm x 109.86mm x 34.93mm, 0.234kg
Operating Temperature Range	0ºC to 60ºC (32ºF to 140ºF)
Storage Temperature Range	-40ºC to 85ºC (-40ºF to 185ºF)
Relative Humidity	5% to 95% (non-condensing)
Agency Approvals Pending	UL, ULC, UL Class 1, Div 2, CE

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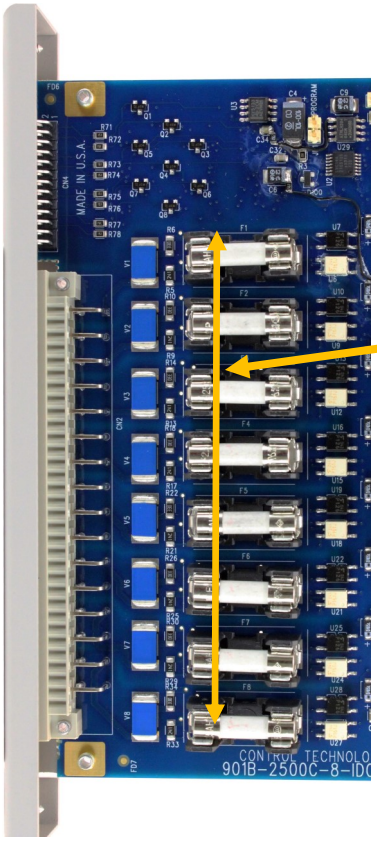

Note: All 8 Channels are individually fused.

Blown Fuse Operation Overview..
Blown Fuse detection works when the Output Channel is wired and the output is turned on. If the fuse is blown the LED will turn ON and the associated X address will equal 1. If the Output Channel is turned off the LED indicator will turn OFF and the associated Blown Fuse Bit will equal 0 . The module does not Latch the Blown Fuse Input so the user application should trap for the reported Blown Fuse Bit while the Output is turned ON. This will allow logging and notification of the blown fuse event to your HMI stations and other reporting devices. Blown Fuse reporting on this module is for each channel.

Channel ON/OFF Status LED
LED is illuminated BLUE when the output is turned ON.

Blown Fuse LED
The Blown Fuse LED is illuminated when the Module detects a Blown Fuse.

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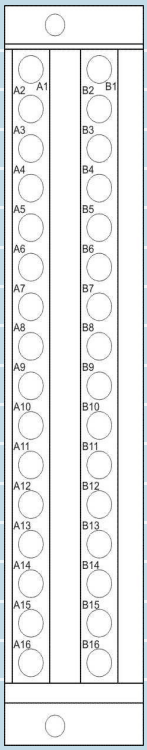
2500C-8-IDO-120V Discrete Output Module

Channel 1	Output	A1	B1	120V	Channel 1
		A2	B2		
Channel 2	Output	A3	B3	120V	Channel 2
		A4	B4		
Channel 3	Output	A5	B5	120V	Channel 3
		A6	B6		
Channel 4	Output	A7	B7	120V	Channel 4
		A8	B8		
Channel 5	Output	A9	B9	120V	Channel 5
		A10	B10		
Channel 6	Output	A11	B11	120V	Channel 6
		A12	B12		
Channel 7	Output	A13	B13	120V	Channel 7
		A14	B14		
Channel 8	Output	A15	B15	120V	Channel 8
		A16	B16		

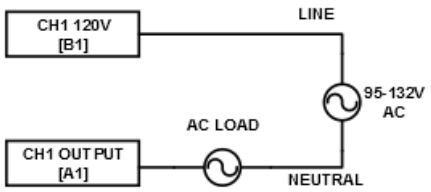


2500-8-IDO-120V Wiring Connector

Note:
The 2500C-8-IDO-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	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

TYPICAL CIRCUIT – EXTERNAL DEVICE



2500C-8-IDO-24V PLC Log on 8X/8Y							
Blown Fuse Reporting 8X				Blown Fuse = 1			
CH 1	CH 2	CH 3	CH 4	CH 5	CH 6	CH 7	CH 8
X1	X2	X3	X4	X5	X6	X7	X8
Output Channel 8Y				OFF = 0		ON = 1	
Y9	Y10	Y11	Y12	Y13	Y14	Y15	Y16

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