

Inputs per module

Module Logon

Signal Range

Input current

AC Voltage Input

DC Voltage Input

Backplane Power (MAX)

Shipping Dimensions and

Operating Temperature Range

Agency Approvals Pending

Storage Temperature Range

Relative Humidity

Input ESD Protection

Module Size

Connector

Isolation

Weight



16

16X

79-132 VAC/VDC

VAC 1.4 - 9.3mA

VDC 2.9 - 9.3mA

Turn ON Time: 3.76 mS

Turn OFF Time: 15.0mS

Turn ON Time: 3.14mS Turn OFF Time: 13.7mS

Single wide module

2500C-32F

0.077 watts no inputs ON 1.193 watts all inputs ON

IEC-1000-4-2 Level 4

1500 VDC Channel to Backplane 1000 VDC Channel to Channel

223.84mm x 109.86mm x 34.93mm,

0.234kg

0°C to 60°C (32°F to 140°F)

-40°C to 85°C (-40°F to 185°F)

5% to 95% (non-condensing)

UL, ULC, UL Class 1, Div 2, CE

Input Specifications

Operating Characteristics for Typical Input

2500C-16-IDI-120V Discrete Input Module



DESCRIPTION

The 2500C-16-IDI-120V Module accepts a wide range of voltage signals. It is designed to accept both AC and DC voltage allowing the user to pick and choose ranges on a single module. Motor centers, optical sensors, limit switches and utility control are excellent examples of applications for this product

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- Single wide module
- 16 Isolated channel to channel inputs
- Supports AC or DC voltage inputs
- Sourcing or sinking Inputs
- Channel On/Off Status Indication
- Uses CTI's 2500C-32F Connector

2500C-16-IDI-120V Default Shipment Settings				
Operation Mode	NA			
Logon	16X			
Signal Range	79-132VAC/VDC			

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2500C-16-IDI-120V Discrete Input Module

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

Note:

The 2500C-16-IDI-120V Discrete Input 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				

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



79-132 VAC/VDC Typical Circuit – Sinking Device 79 – 132 VAC/VDC Input Channel Terminal Ax SENSOR VAC Line or VDC + Input Channel Return Terminal Bx



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2500C-16-IDI-120V Discrete Input Module

Physical Installation



Physical Installation Picture

Remove AC power from the rack. Align the circuit board with the card guide and backplane connector. Slide the controller into the rack until the connector seats. Use the thumbscrews to secure the controller in the rack. Once the module is secured to the rack you may install the wiring connector.



CAUTION REGARDING HOT SWAPPING:

The 2500C-16-IDI-120V is designed to allow "hot-swapping" the module under power in the event that a replacement is needed. However, you must be aware that hot-swapping does not meet UL Safety requirements and is not recommended. If you must "hot-swap" the module, use the following procedure:

Make sure all field devices connected to the module are placed into a "safe" state Remove the I/O connector from the front of the module Loosen the module retaining screws and remove it from the base Ensure the jumper configuration of the replacement module matches the one just removed Install the replacement module and tighten the retaining screws. The replacement module must be the same model number as the one removed. Reattach the I/O connector to the module Ensure the replacement module and all other components are operating properly Remove the field devices from "safe" state Return to NORMAL RUN mode

You are responsible for any results in your application control. DO NOT ATTEMPT TO HOT-SWAP A MOD-ULE IN A HAZARDOUS LOCATION!



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