



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

FEATURES

- 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

Input Specifications	
Inputs per module	16
Module Logon	16X
Signal Range	79-132 VAC/VDC
Input current	VAC 1.4 - 9.3mA VDC 2.9 - 9.3mA
Operating Characteristics for Typical Input	
AC Voltage Input	Turn ON Time: 3.76 mS Turn OFF Time: 15.0mS
DC Voltage Input	Turn ON Time: 3.14mS Turn OFF Time: 13.7mS
Module Size	Single wide module
Connector	2500C-32F
Backplane Power (MAX)	0.077 watts no inputs ON 1.193 watts all inputs ON
Input ESD Protection	IEC-1000-4-2 Level 4
Isolation	1500 VDC Channel to Backplane 1000 VDC Channel to Channel
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

2500C-16-IDI-120V Default Shipment Settings

Operation Mode	NA
Logon	16X
Signal Range	79-132VAC/VDC



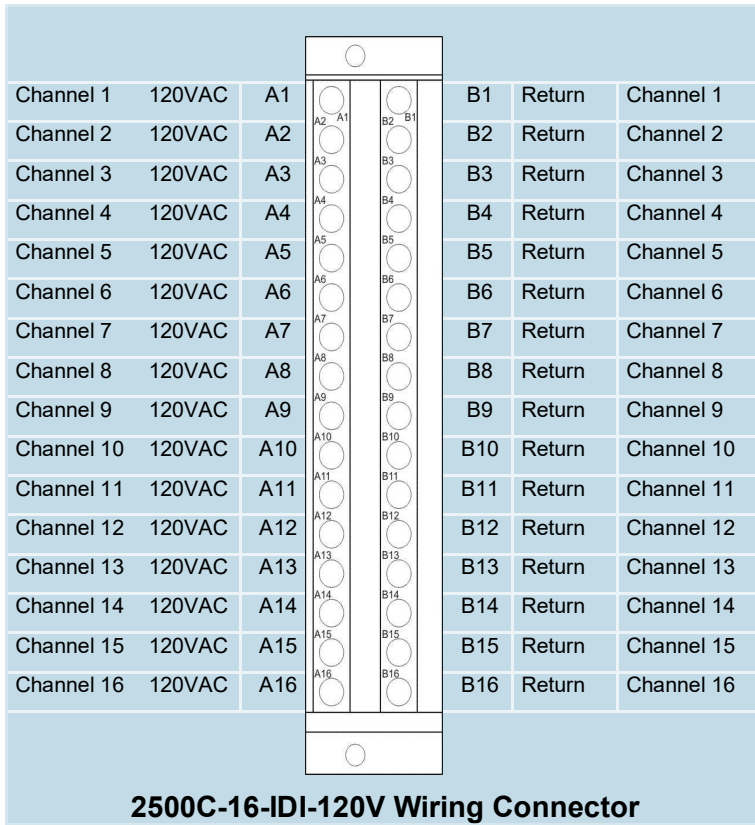
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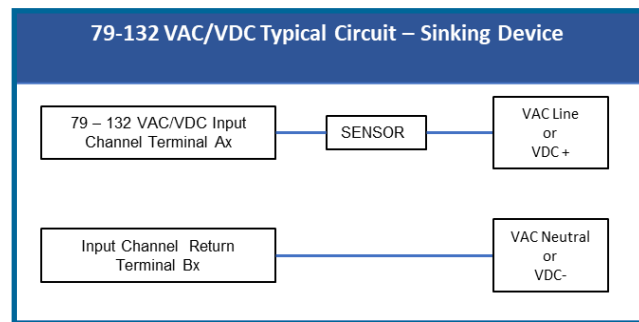
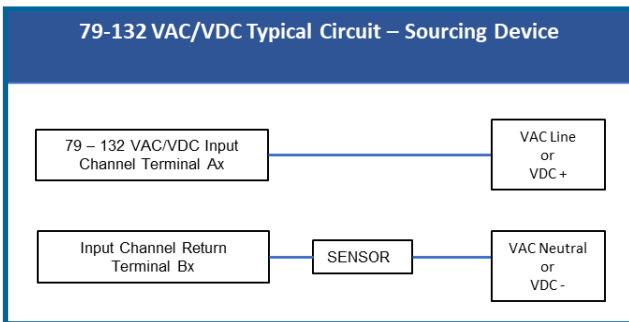


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Note:
The 2500C-16-IDI-120V Discrete Input Modules use CTI Wiring Connector 2500C-32F. Please see the wiring connector specification table below. This connector is ordered separately from the module.

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
Screw :	M3 Zinc plated Steel
Cage Clamp	Nickel Plated Brass
Socket Contact Spring:	Tin Plated Bronze
Retaining Screw:	M3 Zinc Plated Steel



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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 MODULE IN A HAZARDOUS LOCATION!



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