



2500C-8-IDI-120V Discrete Input Module



DESCRIPTION

The 2500C-8-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
- 8 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
- Module supports hot swapping

2500C-8-IDI-120V Default Shipment Settings	
Operation Mode	NA
Logon	8X
120VAC/VDC Signal Range Wiring Dependent	79VAC/VDC -132VAC/VDC
240 VAC Signal Range Wiring Dependent	154VAC - 265VAC

Input Specifications	
Inputs per module	8
Module Logon	8X
120VAC/VDC Signal Range See Note 1:	79-132 VAC/VDC
240VAC Signal Range See Note 1:	164-265 VAC
Input current	VAC 1.4 - 9.3mA VDC 2.9 - 9.3mA
Operating Characteristics for Typical Input	
AC Voltage Input	Turn ON Time: 3.76mS 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)	0.010 watts No inputs ON 0.457 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
Note 1:	120 VAC/VDC and the 240VAC ranges are selected by Connector Channel Wiring. See the wiring connector diagram on the next page of this Product Bulletin.



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Channel 1	120V	A1		B1	Common	Channel 1
	Unused	A2		B2	240VAC	
Channel 2	120V	A3		B3	Common	Channel 2
	Unused	A4		B4	240VAC	
Channel 3	120V	A5		B5	Common	Channel 3
	Unused	A6		B6	240VAC	
Channel 4	120V	A7		B7	Common	Channel 4
	Unused	A8		B8	240VAC	
Channel 5	120V	A9		B9	Common	Channel 5
	Unused	A10		B10	240VAC	
Channel 6	120V	A11		B11	Common	Channel 6
	Unused	A12		B12	240VAC	
Channel 7	120V	A13		B13	Common	Channel 7
	Unused	A14		B14	240VAC	
Channel 8	120V	A15		B15	Common	Channel 8
	Unused	A16		B16	240VAC	

2500C-8-IDI-120V Wiring Connector

Note:

The 2500C-8-IDI-120V Discrete Input Module uses CTI Wiring Connector 2500C-32F. Please see the wiring connector specification table below. This connector is ordered separately from the module.

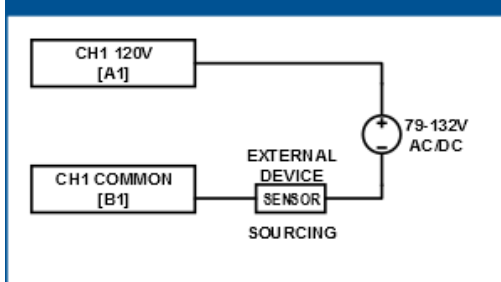
2500C-32F Specifications

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

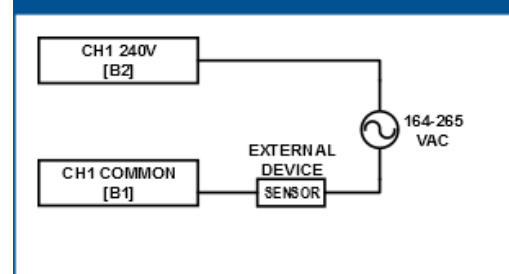
Connector Material

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 – 120V SOURCING



TYPICAL CIRCUIT – 240V



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