

MAS-DI-16-D Field Interface Board 16 Digital Inputs

Masibus Digital Input Field Interface Board has 16 channels that accepts various types of AC/DC Wet voltages and potential free contacts with common External Field Excitation supply and converts them to isolated Open Collector/24V Digital output with external System side Excitation supply. It is compact, universal DIN rail mounted with labeled input and output connections.

Applications

- Translate and Isolate AC/DC Field voltages to 24V signals
- Protect Expensive control systems against Field Faults
- Digital Field Interface for PLC/DCS/SCADA systems
- D-sub/FRC connector on system side for Pre-Fab cables
- Output Compatible with Source/Sink system side modules

TECHNICAL SPECIFICATIONS

16-Channel Digital Input Field Interface Board							
	Input	Output					
No of Channels	16 Channels	Output Signal Type	Open Collector, Source or Sink				
Input Voltage & Category	Refer Table 1	Nominal/Max Voltage	24V/28V DC				
Operating Voltage Range	Refer Table 1	Nominal/Max Current	5mA/50mA				
On State Voltage (Von)	Refer Table 1, Figure 1	Output ON status LED	Green				
Off State Voltage (V _{off})	Refer Table 1, Figure 1	Termination	25 pin D-sub/20 pin FRC connector				
Termination	Screw, up to 2.5 mm ² conductor, 2 per channel	Supply	24V DC				
Excitation Supply Terminals	Common 2 Terminals	Isolation					
		Isolation	1.5KV AC between Field and system side				

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TECHNICAL SPECIFICATIONS

Approx 250 gm

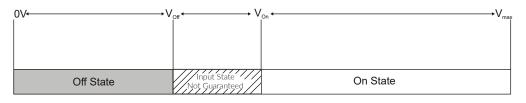
Weight

16-Channel Digital Input Field Interface Board Physical **Environmental** 200(L) x 90(W) x 60(D) 0 to 50 °C Dimension (in mm) Operating Temperature Mounting DIN Rail Humidity 30 to 95% RH non-condensing Profile Material PVC Environmental Protection Conformal Coating on PCB Terminal Block UL, CSA standard Terminal Cable Size Upto 2.5mm² conductor

Table1

Voltage Category	Operating Voltage	On State Voltage(Von)	Nominal Input Current	Off State Voltage (Voff)	Response Time
230VAC	110-265VAC	≥110VAC	12 mA at 230VAC	≤50VAC	≤100mSec
110VAC	70-132VAC	≥70VAC	12 mA at 120VAC	≤30VAC	≤100mSec
220VDC	110-250VDC	≥110VDC	2 mA at 220VDC	≤50VDC	≤20mSec
110VDC	75-132VDC	≥75VDC	2 mA at 110VDC	≤30VDC	≤15mSec
48VDC	30-55VDC	≥30VDC	3.2 mA at 48VDC	≤9VDC	≤10mSec
24VDC	15-30VDC	≥15VDC	3 mA at 24VDC	≤5VDC	≤10mSec
12VDC	7-15VDC	≥7VDC	3 mA at 12VDC	≤4VDC	≤10mSec

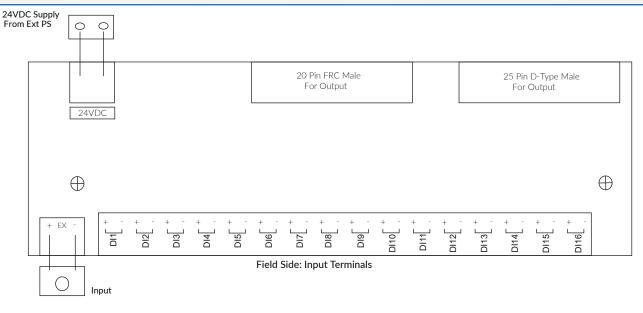
Figure1: On/Off State Voltage Range



Ordering Code

	Model	Input Type	Input Voltage		Output Type		Output Protection		Output Connection	
	MAS-DI-16-D	Χ	Χ		Χ		Χ		Χ	
		AC	1	230VAC	0	Source	0	Non Fuse	0	D Type
			2	110VAC	1	Sink	1	With Fuse	1	FRC
			1	220VDC						
	DC		2	110VDC						
		DC	3	48VDC						
			4	24VDC						
			5	12VDC						

Connection Details



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