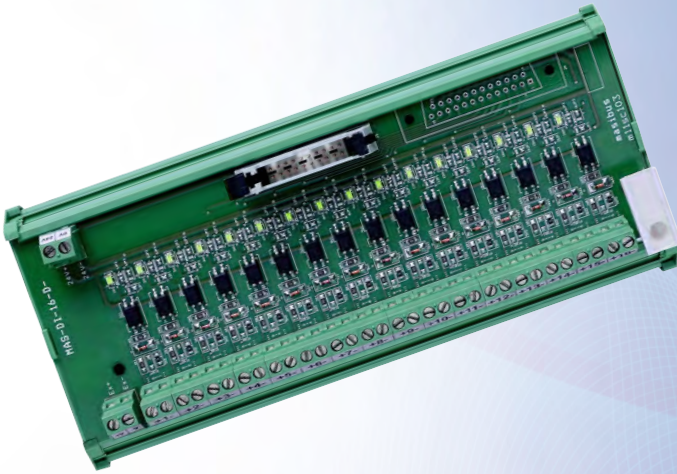


Field Interface Board

MAS-DI-16-D

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

No of Channels	16 Channels
Input Voltage & Category	Refer Table 1
Operating Voltage Range	Refer Table 1
On State Voltage (V_{on})	Refer Table 1, Figure 1
Off State Voltage (V_{off})	Refer Table 1, Figure 1
Termination	Screw, up to 2.5 mm ² conductor, 2 per channel
Excitation Supply Terminals	Common 2 Terminals

Output

Output Signal Type	Open Collector, Source or Sink
Nominal/Max Voltage	24V/28V DC
Nominal/Max Current	5mA/50mA
Output ON status LED	Green
Termination	25 pin D-sub/20 pin FRC connector
Supply	24V DC

Isolation

Isolation	1.5KV AC between Field and system side
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Technical Specifications

16-Channel Digital Input Field Interface Board

Physical

Dimension (in mm)	200(L) x 90(W) x 60(D)
Mounting	DIN Rail
Profile Material	PVC
Terminal Block	UL , CSA standard
Terminal Cable Size	Upto 2.5mm ² conductor
Weight	Approx 250 gm

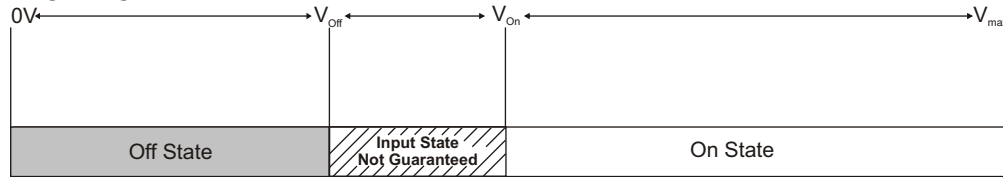
Environmental

Operating Temperature	0 to 50°C
Humidity	30 to 95% RH non-condensing
Environmental Protection	Conformal Coating on PCB

Table1

Voltage Category	Operating Voltage	On State Voltage (V _{on})	Nominal Input Current	Off State Voltage (V _{off})	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

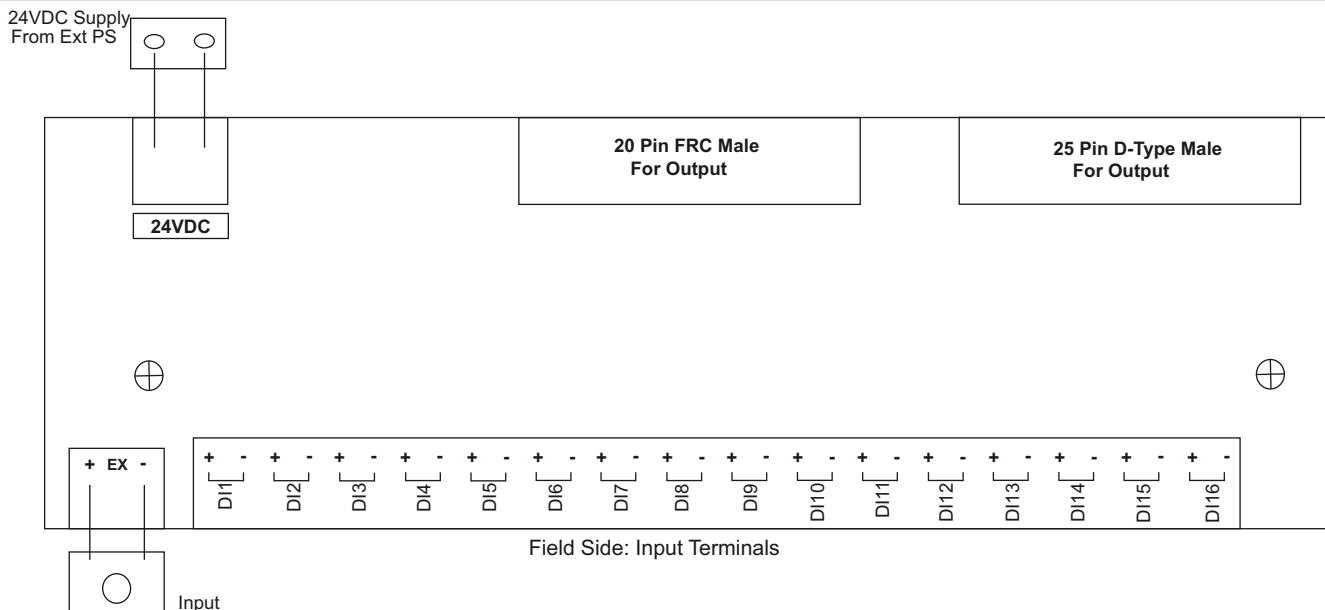


ORDERING CODE

Model: MAS-DI-16-D-XXXXX

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

Connection Details



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All specifications are subject to change without notice due to continuous improvements.
 Doc. Ref. FIB MAS-DI-16-D/R0F/0214

Masibus Representative: