

2.2.8. Digital Input 24VDC




Function

The Digital Input 24VDC accepts 24VDC signals as discrete inputs.

Notable Features

- Extensive internal diagnostics for data integrity
- Optional redundancy
- Internal / External field power selection
- Galvanic isolation (System to Field only with external user supplied power)

Detail Specifications – Digital Input 24VDC

Parameter		Specification		
Input / Output Module		8C-PDILA1 - Digital Input 24VDC, Coated		
		8U-PDILA1 - Digital Input 24VDC, Uncoated		
IOTA Modules		8C-TDILA1	Non Redundant, Coated	9"
		8U-TDILA1	Non Redundant, Uncoated	9"
		8C-TDILB1	Redundant, Coated	12"
		8U-TDILB1	Redundant, Uncoated	12"
Input Channels		32		
Galvanic Isolation (any input terminal voltage referenced to common)		1000 VAC RMS for System – to – Field isolation for user supplied field Power		
Isolation Technique		Optical (In IOM)		
Voltage Rating		24 VDC		
Module current rating		95 mA		
Temperature	Operating Temperature	0 to 60 °C		
	Storage temperature	-40 to 85 °C		
DI Power Voltage Range		18 to 30 VDC (For user supplied field power)		
Module Removal and Insertion Under Power		Supported		
ON Sense Voltage/Current		13 VDC (min) or 3 mA (min)		
OFF Sense Voltage/Current		5 VDC (max) or 1.2 mA (max)		
Input Impedance		4.2 K Ω		
Absolute Delay Across Input Filter and Isolation		5 ms \pm 20%		
Agency certifications				
		 Class I, Division 2, Group A, B, C, D; T4 Class I, Zone 2 AEx/ Ex nA II C T4		
		 Class I, Division 2, Group A, B, C, D; T4 Class I, Zone 2, Ex nA II C T4		