

Parameter	Specification
DI Power Voltage Range	18 to 30 VDC
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%
Field Resistance for Guaranteed ON Condition	300 Ω max @ 15 VDC
Field Resistance for Guaranteed OFF Condition	30 K Ω min @ 30 VDC

2.7. 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
- Can supply Non-incendive field power (For internal power only)
- Galvanic isolation (System to Field only with external user supplied power)

Detail Specifications – Digital Input 24VDC

Parameter	Specification
Input / Output Model	8C-PDIL51 - 24Volt Digital Input, Coated 8U-PDIL51 - 24Volt Digital Input, Uncoated
IOTA Models	8C-TDIL51 Non Redundant, Coated 9"
	8U-TDIL51 Non Redundant, Uncoated 9"
	8C-TDIL61 Redundant, Coated 12"
	8U-TDIL61 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)
DI Power Voltage Range	18 to 30 VDC (For user supplied field power)
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%