



DI3301

Triconex Trident 24 VDC Digital Input Module

Product scope

- Provides 32 commoned digital input channels for nominal 24 VDC signals.
- Uses a triplicated input path for Trident safety-system processing.
- Scans all 32 points in less than 1 ms and supports field voltage diagnostics.
- Requires the correct Trident baseplate and field termination arrangement for installation.

Manufacturer source

Triconex Trident Planning and Installation Guide, Model 3301 module pages

The enclosed Triconex pages show the Model 3301 front panel, triplicated input architecture and module specifications.

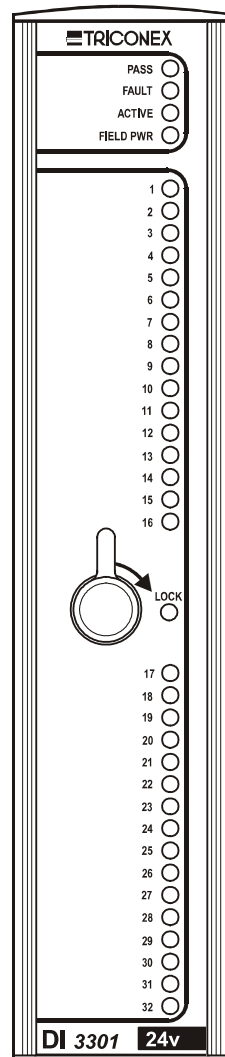
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80 Input/Output Modules

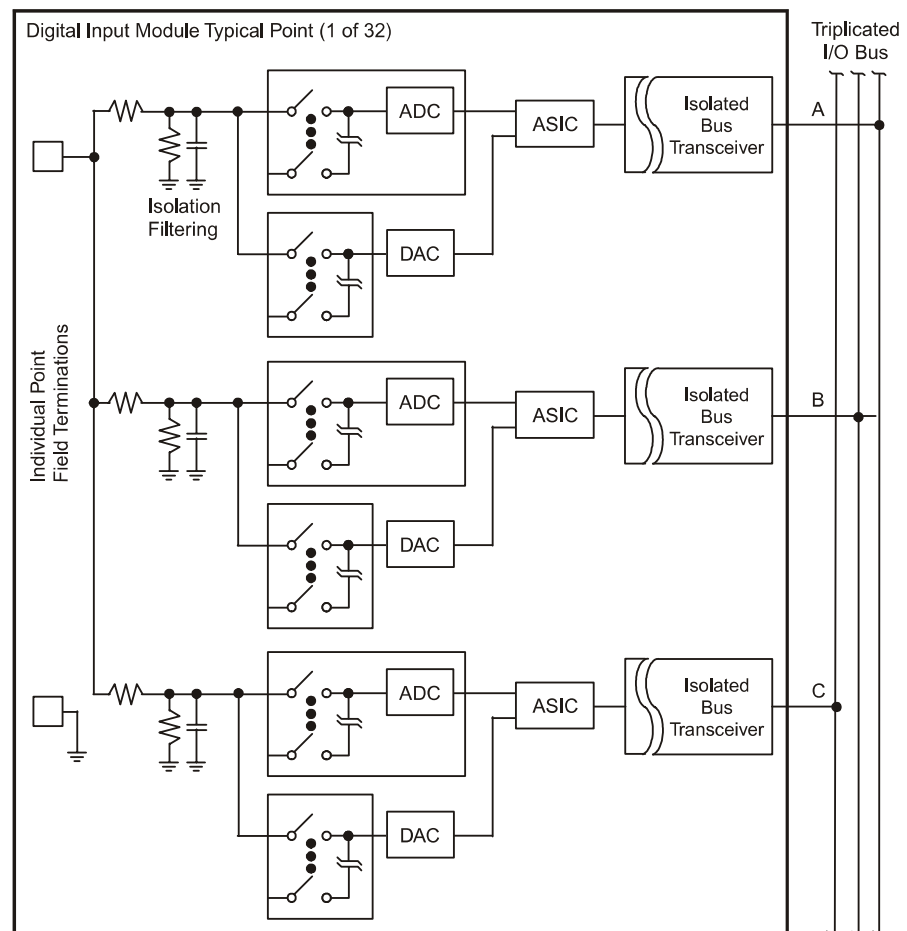
Model 3301 Digital Input Module

DI Module
Front Panel



Trident Planning and Installation Guide

Model 3301 Digital Input Module Simplified Schematic



82 Input/Output Modules

Model 3301 Digital Input Module Specifications

Feature	Specification
Points	32, commoned
Nominal input voltage	24 V DC
Operational voltage range	15–30 V DC
Absolute maximum input voltage	33 V DC
Absolute maximum reverse input voltage	–0.6 V DC
Input delay	<10 ms, On to Off or Off to On TC = 6.4 ms, –3dB @ 25Hz
Input impedance	>30 k Ω without baseplate $\approx$ 3 k Ω with baseplate
Input power	0.2 W/pt, @ 24 V DC 0.5 W/pt, @ 33 V DC
Input threshold	0–5 V DC = Off region 6–14 V DC = transition region 15–30 V DC = On region
Diagnostic (loss of view)	Force-to-value diagnostic (FVD), <2 ms/test
Maximum input toggle rate to maintain diagnostic fault coverage	<20/sec
FVD Off-state glitch	
Duration	<2 ms
Magnitude	$\approx$ 36% test voltage
Output Impedance	0–5 V DC, $\approx$ 100 k Ω
ADC scan time	<1 ms for all 32 points
Functional-to-protective-earth isolation	500 V DC, minimum
Functional-to-functional-earth (logic) isolation	800 V DC, minimum

Trident Planning and Installation Guide



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