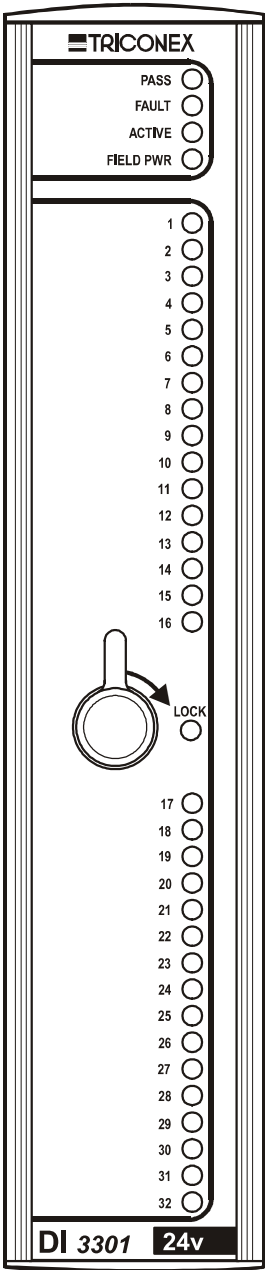
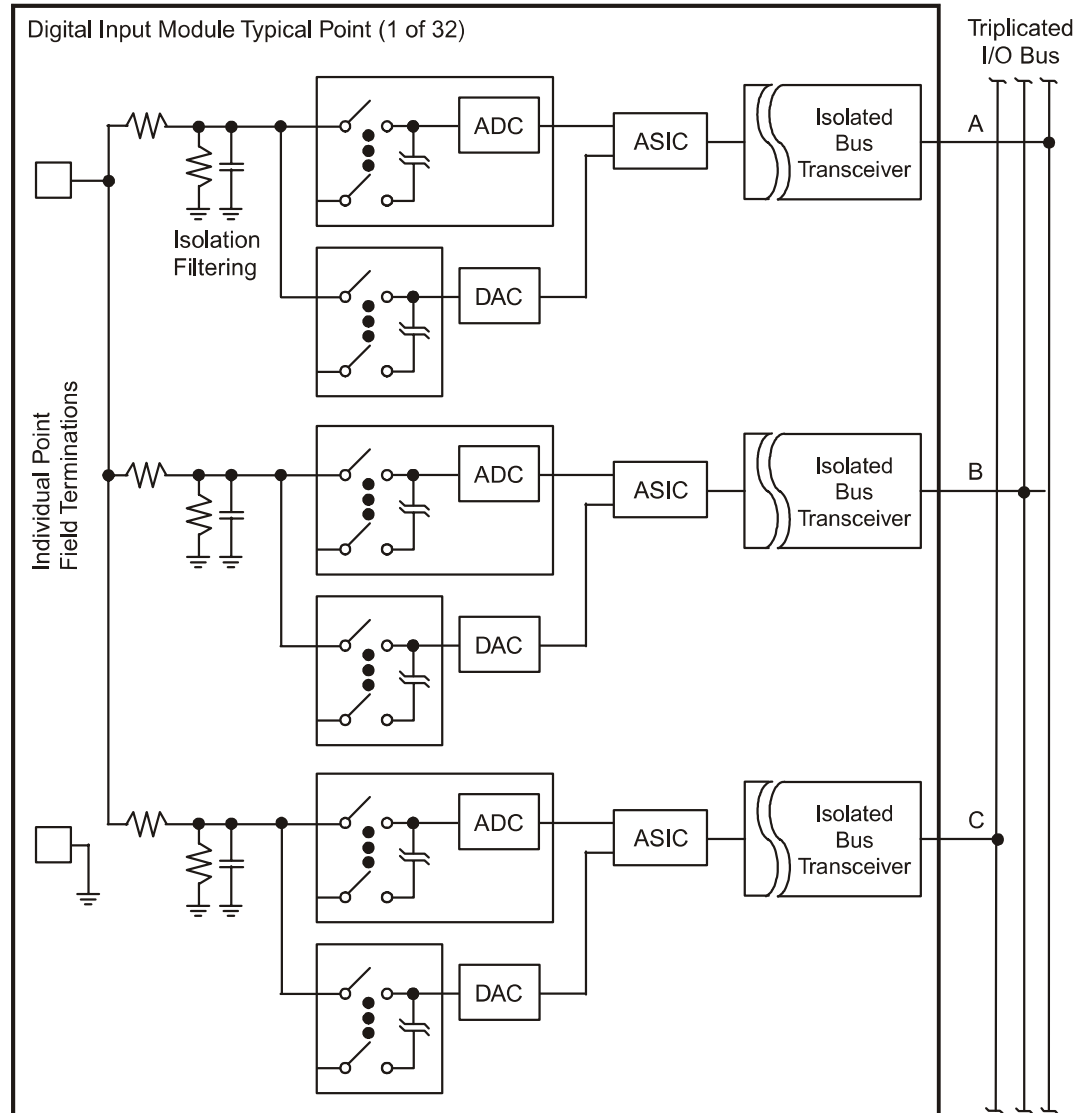


Model 3301 Digital Input Module

DI Module
Front Panel



Model 3301 Digital Input Module Simplified Schematic

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