

AI/DI Module 3361S2

This figure is a simplified schematic of the Model 3361S2 AI/DI Module.

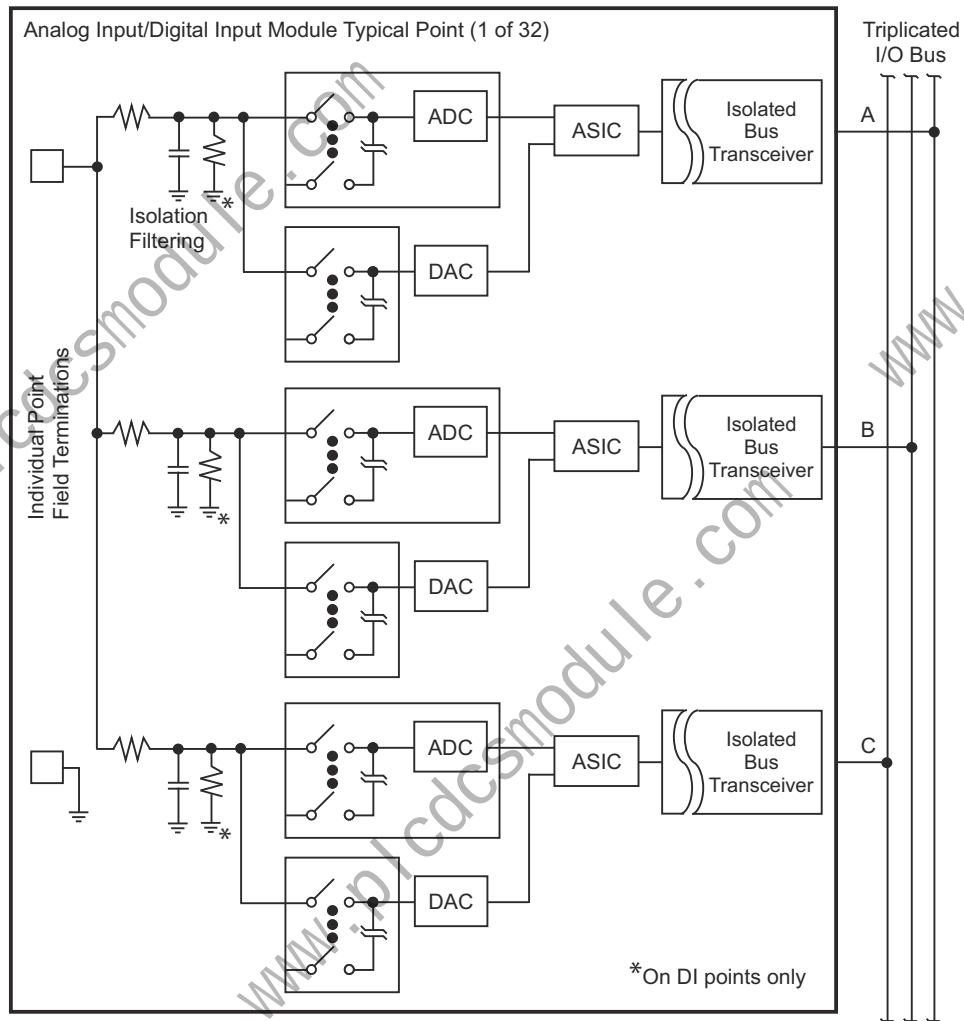


Figure 27 3361S2 AI/DI Module Simplified Schematic

This table lists the specifications for the Model 3361S2 AI/DI Module.

Table 17 3361S2 AI/DI Module Specifications

Features Common to all Points	Specification
Points	32, commoned
Functional earth to protective earth isolation	500 VDC, minimum
Functional earth to functional earth (logic) isolation	800 VDC, minimum
Features of AI Points	Specification
Nominal input current	4–20 mA DC
Specified operational current range	2–22 mA DC
Absolute maximum field voltage	33 VDC
Absolute maximum reverse field voltage	– 0.6 VDC
Absolute maximum input current	50 mA DC
Input bandwidth (3dB)	16 Hz
Source impedance	180 Ω
Input impedance (with baseplate)	250 Ω
I to V resistor	100 $\Omega \pm 0.01\%$
Resolution	12 bits
Absolute error	0.15% of full scale (20 mA)
Diagnostic	Force-to-value diagnostic (FVD)
Scan time	< 1 ms for all 32 points
Features of DI Points	Specification
Nominal input voltage	0–24 VDC
Operational voltage range	15–30 VDC
Absolute maximum input voltage	33 VDC
Absolute maximum reverse input voltage	– 0.6 VDC
Input Delay	< 10 ms, On to Off, Off to On
Input impedance	> 100 k Ω without baseplate ~ 3 k Ω with baseplate
Input power	0.2 W/pt, @ 24 VDC 0.5 W/pt, @ 33 VDC
Input threshold	0–5 VDC = Off region 6–14 VDC = transition region 15–30 VDC = On region
Diagnostic (loss of view)	Force-to-value diagnostic (FVD), < 2 ms/test