



Differential to Single-Ended Converter (4A2A)

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The Differential to Single-Ended Converter is intended to convert a differential analog output to single-ended input drives. Specifically, this converter allows AMS Controls' XL200 Series controllers and Pathfinder folding machine controllers to correctly interface with particular motor drives. However, this converter is suitable for use in any general purpose application that requires converting a differential output to a single-ended input. Each Differential to Single-Ended Converter (4A2A) can handle two independent analog signals.

Specifications

General:

Input Voltage: +/- 10V differential

Output: +/- 10V, 20mA max

Input Impedance: >10K ohms

Output Impedance: 10K ohms

Output Load: 1K ohms. Stable for capacitance loads up to 10,000pf.

Frequency Range: 100KHz

Wire Connections:

14AWG to 26AWG

Power:

12-30VDC at 100mA

Pin Assignment

Channel 1		Channel 2	
Pin	Assignment	Pin	Assignment
A1	+ IN A	C1	GND
A2	- IN A	C2	CASE
A3	CASE	C3	+ IN B
A4	GND	C4	- IN B
B1	GND	D1	OUT B
B2	OUT A	D2	GND
B3	GND	D3	24V
B4	24VDC	D4	GND

Dimensional Drawings

The Differential-to-Single-Ended Converter is intended to be mounted on a standard DIN rail.

