

DESCRIPTION

ADB-P12V is an adapter board for ISOXXXX-ISO voltage transducers for alternative screw terminal terminations and using single nominal 12Vdc power supply. The nominal 12Vdc range is 9V to 18Vdc. The adapter board generates internal +/-12Vdc to power up ISOXXXX-ISO voltage transducer.

ISOXXXX-ISO voltage transducers include ISO1500-ISO, ISO1000-ISO, ISO500-ISO and ISO100-ISO which are sold separately.

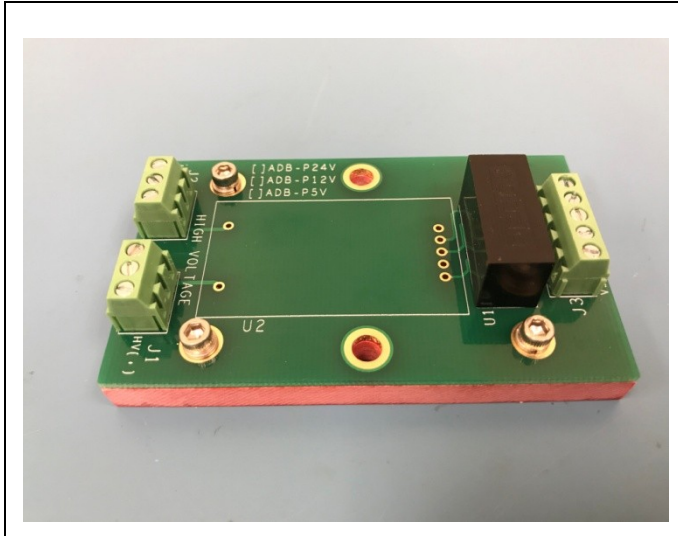


Figure 1 ADB-P12V Adapter Board

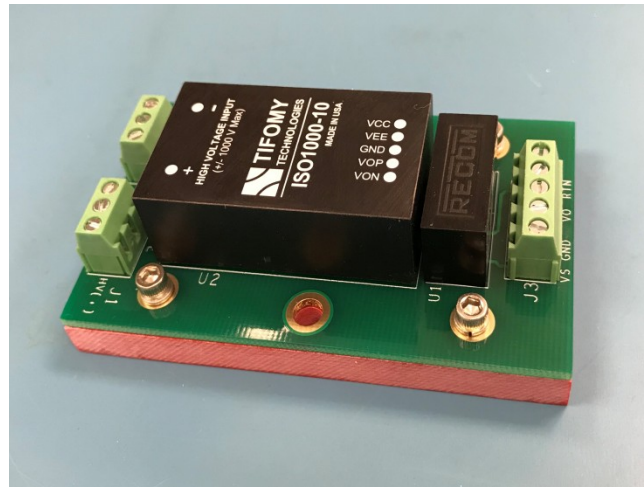
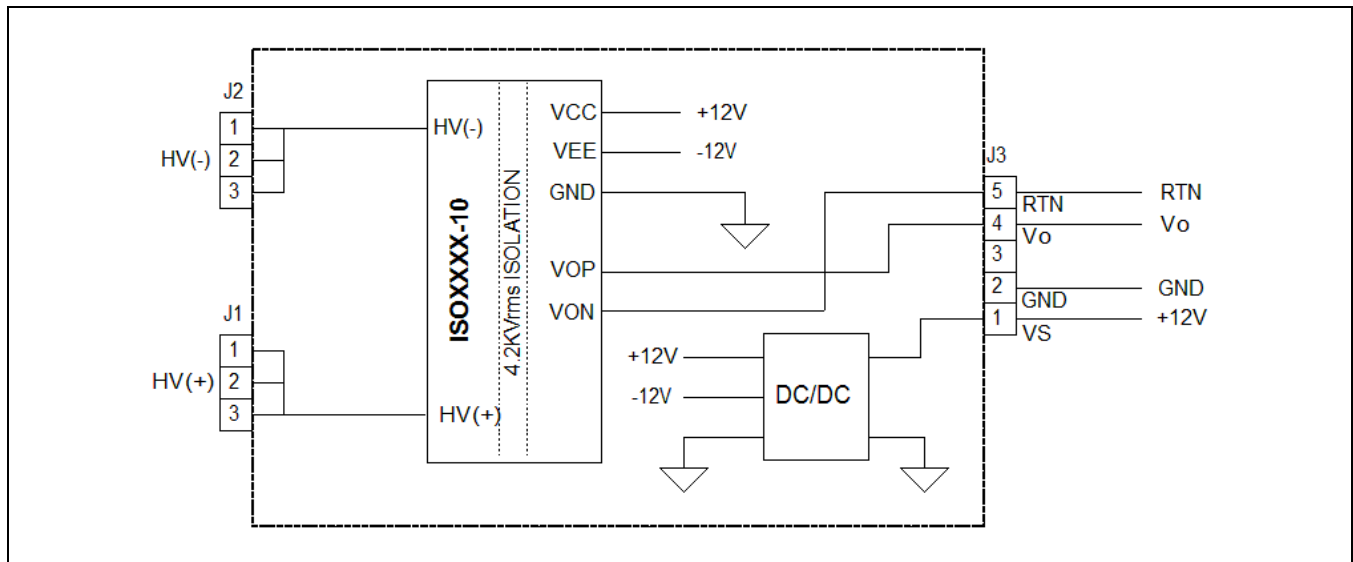
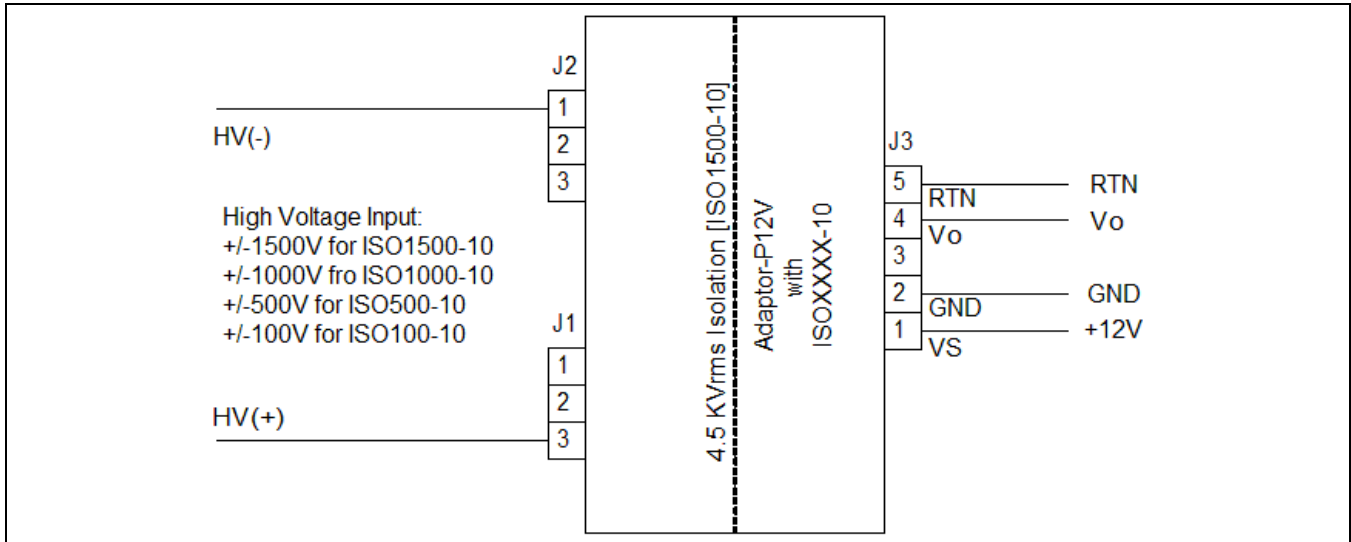


Figure 2 ADB-P12V Adapter Board Mounted with ISO1000-10 (sold separately)

FUNCTIONAL BLOCK DIAGRAM



TYPICAL APPLICATION WIRING DIAGRAM



ABSOLUTE MAXIMUM RATINGS

Parameter		Symbol	Minimum	Maximum	Units
Storage Temperature		TS	-45	+ 95	°C
Ambient Operating Temperature		TA	-40	+ 85	°C
Supply Voltage (Continuous)		[J3-VS]-[J3-GND]	9	18	V
Supply Current (Continuous)		I _{sup}	55	95	mA
Steady State Input Voltage	ISO1500-10	[J1-1,2,3]-[J2-1,2,3]	-1500	+ 1500	V
	ISO1000-10	[J1-1,2,3]-[J2-1,2,3]	-1000	+ 1000	V
	ISO 500-10	[J1-1,2,3]-[J2-1,2,3]	-500	+ 500	V
	ISO100-10	[J1-1,2,3]-[J2-1,2,3]	-100	+ 100	V
Transient Input Voltage (30 Seconds)					
	ISO1500-10	[J1-1,2,3]-[J2-1,2,3]	-1650	+1650	V
	ISO1000-10	[J1-1,2,3]-[J2-1,2,3]	-1200	+1200	V
	ISO 500-10	[J1-1,2,3]-[J2-1,2,3]	-600	+600	V
	ISO100-10	[J1-1,2,3]-[J2-1,2,3]	-120	+120	V
Output Voltage		[J3-Vo]-[J3-RTN]	-16	16	V
Screw Terminals	Single Wire		#24	#16	AWG
	Max Torque +/-10%			0.19	N-m
	Current			5	A

RECOMMENDED OPERATING CONDITIONS

Parameter		Symbol	Minimum	Maximum	Units
Ambient Operating Temperature		TA	-40	+ 85	°C
Supply Voltages		[J3-VS]-[J3-GND]	9	18	V
Input Voltage Range	ISO1500-10	[J1-1,2,3]-[J2-1,2,3]	-1500	+ 1500	V
	ISO1000-10	[J1-1,2,3]-[J2-1,2,3]	-1000	+ 1000	V
	ISO 500-10	[J1-1,2,3]-[J2-1,2,3]	-500	+ 500	V
	ISO100-10	[J1-1,2,3]-[J2-1,2,3]	-100	+ 100	V

PACKAGE OUTLINE

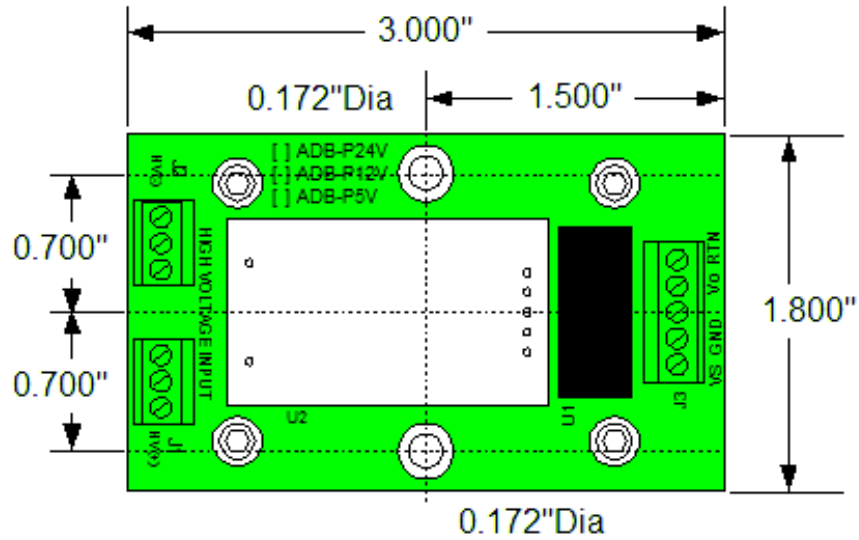


Figure 3 Top View

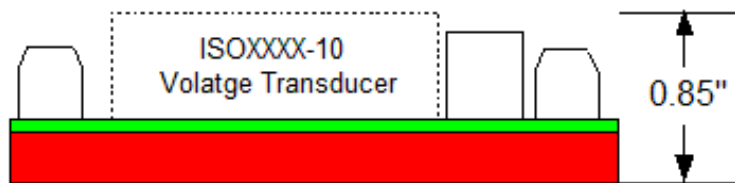


Figure 4 Side View

PACKAGE WEIGHT

2.93 OZ (83 g)

WARNING!



Danger!
Electrical Shock Risk

The exposed pins of the voltage transducer can carry hazardous voltage. The device must be used in a protective housing and the conducting parts must be inaccessible after installation. Ignoring this warning can lead to injury and/or serious damage.

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