

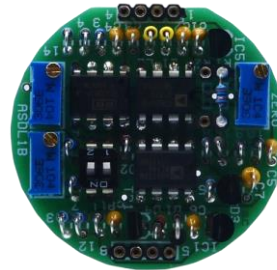
ASDL1B

3-Wire 4-20mA Bridge Amplifier with Linearity Correction

The ASDL1B is a circular board for 3-wire systems providing a 4mA - 20mA current output with adjustable linearity correction. The unit has individual multi-turn potentiometers for the precise setting of Zero, Span and **Linearity adjustment** without the need of a computer. This unit is also available with **mid. zero output** (12mA for example) for compression/tension transducers. The inputs provide EMI-/RF-suppression. Transducer wires can be easily connected to board via soldering or SIL sockets.

Features

- Wide range power supply 18-30V
- 5V stabilised bridge excitation
- Bridge resistance 350 Ohm (or greater)
- Bridge sensitivity 0.6mV/V – 3mV/V
- Size 43mm diameter, 21mm height
- Fast calibration procedure
- Reverse-polarity protection
- Easy linearity correction procedure



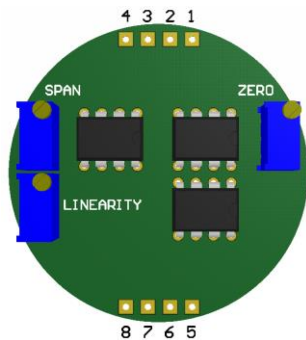
Applications

- Industrial Weighing
- Load Testing & Monitoring
- Overload Protection Systems

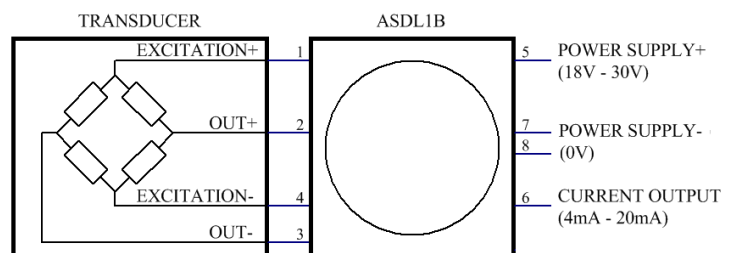
Ordering

Part number:	ASDL1B*
*Please specify required input range, between 0.6mV/V – 3mV/V	
Customer specific electrical / mechanical changes are possible – please contact us with your individual requirements.	

Board Connections



Schematic Diagram



Specifications

Parameter	Min	Typical	Max	Unit
Supply Voltage	18	24	30	V
Current Output – Zero (adjustable control)	1.6	4		mA
Current Output – Span (adjustable control)		20	24	mA
Bridge Sensitivity	0.6		3	mV/V
Bridge Resistance	350			Ohms
Bridge Excitation Voltage		5		V
Linearity Correction Range		+/-1.8		mA @12mA
Current Output Temp. Coefficient – Zero		0.3		uV/°C



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Parameter	Min	Typical	Max	Unit
Current Output Temp. Coefficient – Span		0.01		%/°C
Operating Temperature	-20		50	°C