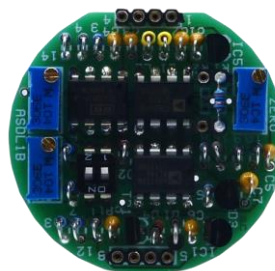


Load Cell Amplifier / Strain Gauge Amplifier with Linearity Correction ASDL1B

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



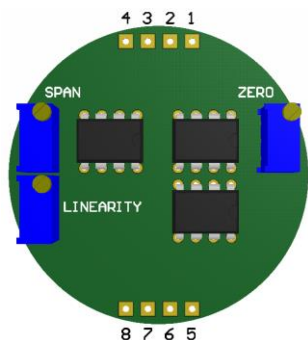
Applications

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

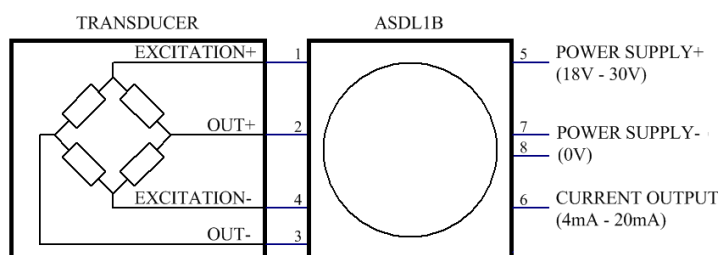
Ordering

| | |
|--|----------------|
| 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 |



www.aieng.co.uk

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