ASSET INSTRUMENTS ENGINEERING



Load Cell Amplifier / Strain Gauge Amplifier ASR333

The ASRS333 is a sub-miniature board for 2-wire systems providing a 4mA - 20mA current output, designed to fit inside a load cell. The unit has individual multi-turn potentiometers for the precise setting of Zero and Span. The inputs provide EMI-/RF-suppression. Transducer wires can be easily soldered onto the board or connected using SIL sockets.

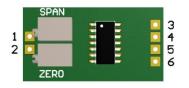
Features

- Wide-range power supply 7.5V-28V
- 2.5V stabilised bridge excitation
- Bridge resistance >=700 Ohm
- Bridge sensitivity 1mV/V 2mV/V
- Size (LxBxH): 29,2mm x 15,3mm x 10mm
- Fast calibration procedure
- Reverse-polarity protection

Applications

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

Board Connections



Ordering

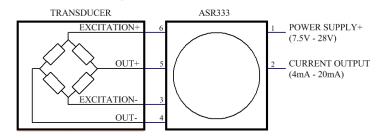
 Part number:
 ASR333*

 *Please specify required input range, between 0.3mV/V – 3mV/V

 Customer specific electrical / mechanical changes are possible

 – please contact us with your individual requirements.

Schematic Diagram



Specifications

Parameter	Min	Typical	Max	Unit
Supply Voltage	7.5	24	28	V
Current Output – Zero (adjustable control)	2.2	4		mA
Current Output – Span (adjustable control)		20	24	mA
Bridge Sensitivity	1	1.2	2	mV/V
Bridge Resistance	700			Ohms
Bridge Excitation Voltage		2.5		V
Current Output Temp. Coefficient – Zero		0.25		uV/°C
Current Output Temp. Coefficient – Span		0.0025		%/°C
Operating Temperature	-20		85	°C



DISCLAIMER: Asset Instruments Engineering Ltd. reserves the right to make changes to its products and/or specifications and makes no guarantee regarding the suitability of its products for any particular purpose. Buyer is solely responsible for validating and testing these products in their application including compliance with all laws, regulations and safety requirements.