

S200 Single Point, Low Profile Load Cell



The Series **200 Low Profile Load Cell** is intended for applications requiring accurate measurement of forces up to 1000N. It can be used with a rigidly mounted or to measure tensile or compressive forces. A 10,000 OHM Wheatstone bridge offers extremely low power consumption for extended battery life in portable products. It's thin-film, metal strain gauge circuit enables a long-term stability of better than 0.1% per year. This single point low profile load cell is ideal of scales, weighing bottles or bags in medical instrumentation, laboratory use, robotics or general industrial weighing applications. Options on various specification and mounting configurations are available.

Product Specifications:	
Static Overload:	150%
Resistance:	5000 Ω Nominal
Excitation	Recommended: 10V ac/dc
	Maximum: 15 V ac/dc
Rated Output:	2 mV/V Nominal
Zero Offset:	< +1 mV/V
Nonlinearity:	< +0.03% R.O.
Hysteresis:	< +0.03% R.O.
Nonrepeatability:	< +0.03% R.O.
Creep 30 mins:	< +0.05% R.O.
Temp. Range:	-10°C to 70°C
Thermal Zero Shift:	< +0.03% R.O./°C
Thermal Sensitivity Shift:	+0.025% + .01% Reading/°C
Insulation Resistance:	1GΩ @ 50 Vdc
Insulation Breakdown:	300Vdc
Terminations:	300 mm, 28 AWG PVC Insulation

Features:

- Compact, Low Profile Design
- High Long Term Zero Point Stability
- Ideally Suited for OEM Applications
- Low Power Consumption
- Low Hysteresis

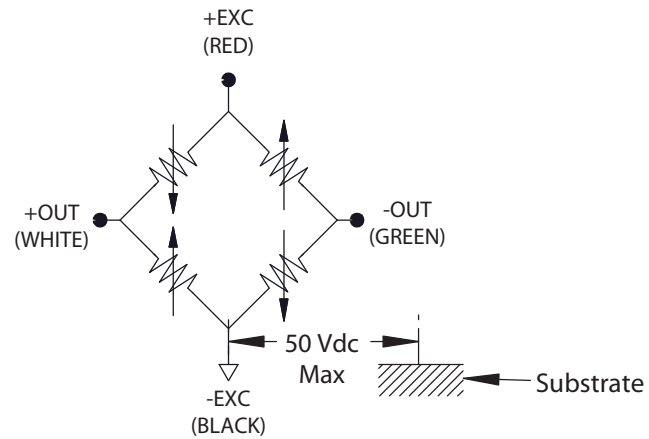
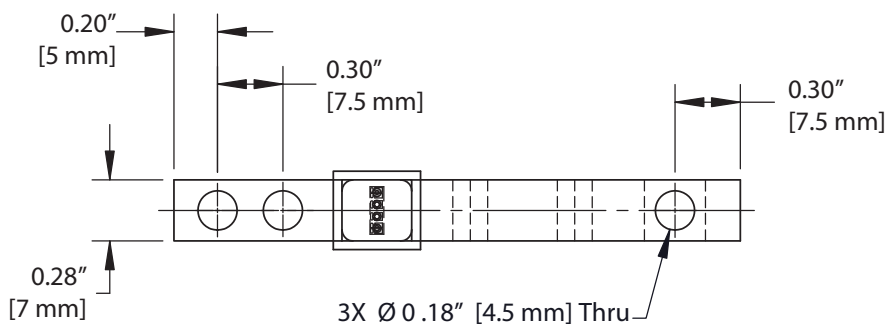
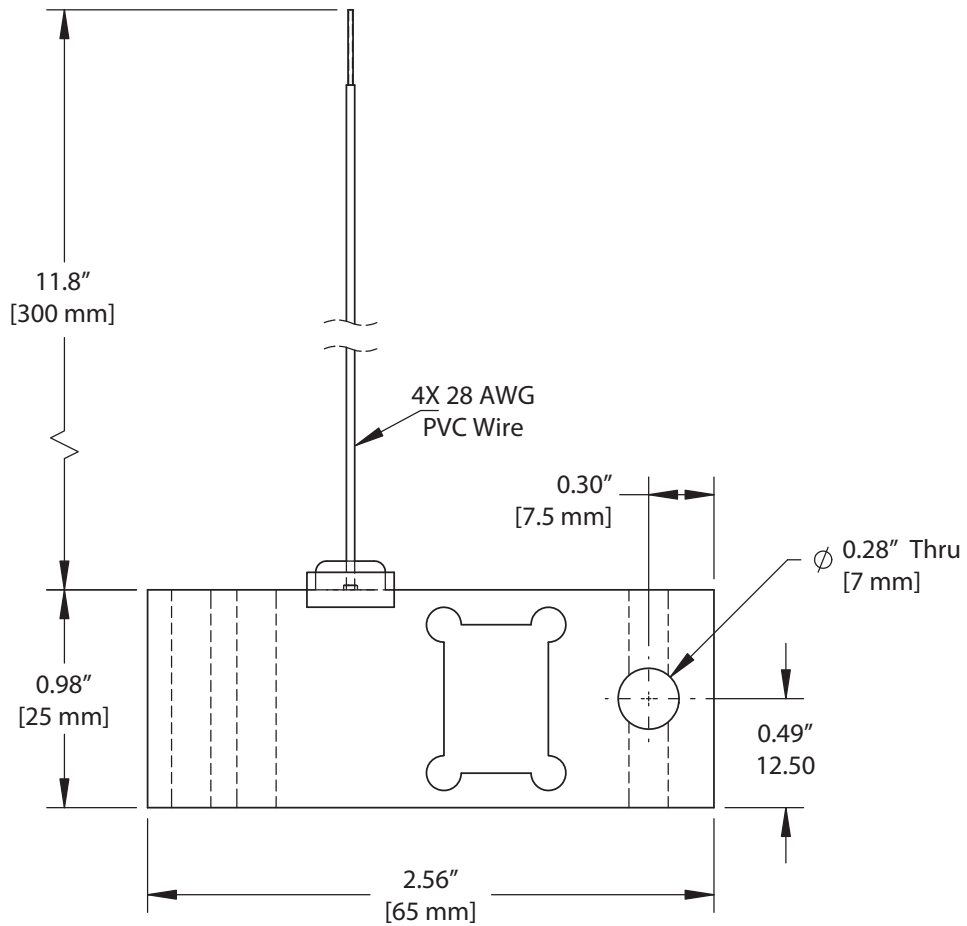
Applications:

- Medical Instrumentation Force, Displacement
- Acceleration Measurement
- Battery Powered Equipment
- Food Dispensing Equipment
- Robotics

Part Name	Capacity
SMD200-100	22.5 lb [100 N]
SMD200-200	45 lb [200 N]
SMD200-500	112.4 lb [500 N]
SMD200-1000	224.8 lb [1000 N]
SMD200-2000	445 lb [2000 N]



STRAIN MEASUREMENT DEVICES



USA
Strain Measurement Devices
55 Barnes Park North, Wallingford, CT 06492
sales@smdsensors.com | (203) 294-5800

Europe
Strain Measurement Devices
Bury Road, Chedburgh, Bury St Edmunds IP29 4UQ
sales@smdsensors.co.uk | +44 (0)1284 852 000