\$300 Single Point, Miniature Platform Load Cell



The **S300 Load Cell** is a low profile, bidirectional single point OEM load cell which has an integral overload stop in both tension and compression. The unique design allows the load cells to be used as a platform sensor or as a tension or compression load cell for in-line force measurement purposes. Ideal for medical instruments, force gauges, automation equipment, and other weighing and force measurement applications. A 10,000 Ω Wheatstone Bridge and thing-film strain gauge provide extremely low power consumption as well as unmatched long term stability. The flexure design allows minimal errors from off-center loads.

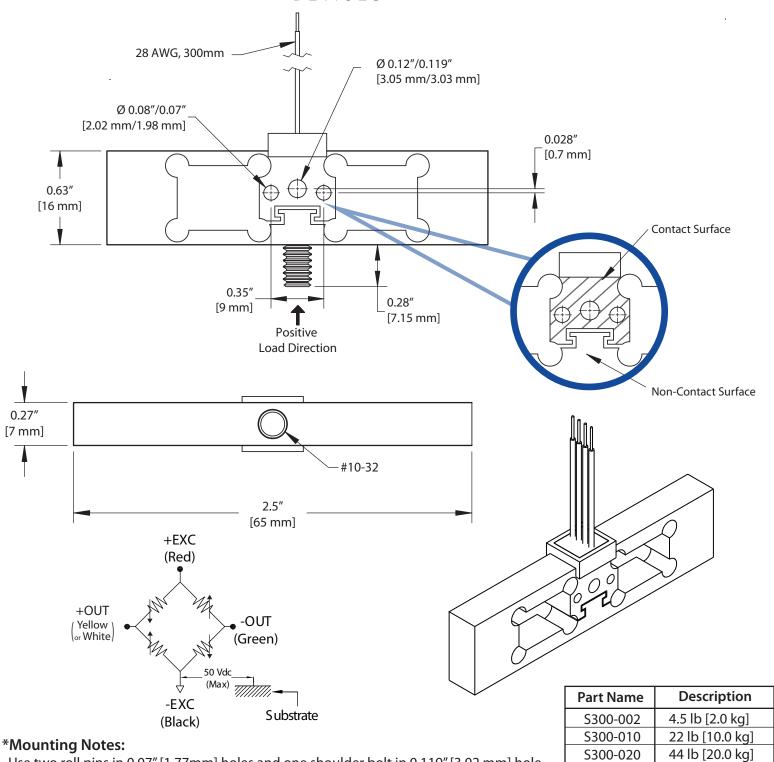
Product Specifications:	
Rated Capacity:	2, 10, 20, 50 kg-force
Rated Output:	1.8 to 2.4 mV/V Nominal
Hysteresis:	< 0.03% R.O.
Creep (30 mins):	< 0.05% R.O.
Insulation Resistance:	> 1000 M Ω @ 50 Vdc
Bridge Resistance:	10000 to 11500 Ω
Bridge Configuration:	4-Wire Closed, Full-Bridge
Temp. Effect on Zero Balance:	< 0.03 °C
Temp. Effect on Span:	< 0.025 °C
Excitation (Recommended):	5 to 20 V / dc
Ultimate Overload:	> 1000 (At Center)
Nonlinearity:	< 0.03% R.O. / Year
Long Term Stability:	< 0.03% R.O.
Offset:	0.5 mV / V Nominal
Repeatability:	< 0.02% R.O.

Features:

- · Overload Protection
- · Single Point Sensor
- · In-line or Platform Sensing
- · Low Power Consumption
- · Low Hysteresis
- · Long Term Stability
- · Bidirectional

Applications:

- · Medical Instrumentation
- · Force Gauges
- · Testing Equipment
- · Check Weighing
- Automation



· Use two roll pins in 0.07" [1.77mm] holes and one shoulder bolt in 0.119" [3.02 mm] hole

Electrical Termination: Standard PVC Insulated Wire 10x.1 mm (Approx. 28 AEG) 300 mm (11.5" long)

Off-Center Loading Error: 0.0025 mV/V (Deviation from Center Load Reading, Measured at 2.5% of Range, 80 mm from Stud)

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

S300-050

110 lb [50 kg]

[·] Ensure adequate spacing to allow for deflection