

Product Description

The Miniature S-Beam Load Cell is a bi-directional strain gauge based transducer for submersible applications. This design provides better than $\pm 0.5\%$ (full scale) non-linearity and includes overload protection in both tension and compression directions. Options include IEEE1451.4 TEDS capability.

Performance Specifications

- RATED CAPACITY
- RATED OUTPUT (RO)
- SAFE OVERLOAD
- NO LOAD OFFSET (ZERO BALANCE)
- EXCITATION (VDC OR VAC)
- INPUT IMPEDANCE
- OUTPUT IMPEDANCE

2, 5, 10, 25, 50, 100 lb 2mV/V nom. 1000 % of R.O., 200% tension only for 50lb & 100 lb \pm 10% of R.O. 10 MAX, 5V recommended 1000 Ω nom. 1000 Ω nom.

Capacity	Non-Linearity	Hysteresis	Zero Return	Creep 10 mins
2lb, 5lb	±0.5% of R.O.	±1% of R.O.	±0.5% of R.O.	±1% of R.O.
10lb, 25lb	±0.2% of R.O.	±0.2% of R.O.	±0.2% of R.O.	±0.5% of R.O.
50lb, 100lb	±0.2% of R.O.	±0.2% of R.O.	±0.2% of R.O.	±0.2% of R.O.

- NONREPEATABILITY
- TEMP. SHIFT ZERO
- TEMP. SHIFT SPAN
- COMPENSATED TEMP.
- OPERATING TEMP
- WEIGHT (approx)
- MATERIAL
- DEFLECTION
- IP RATING
- CALIBRATION TEST EXCITATION
- CALIBRATION (STD)
- CONNECTOR
- THREAD

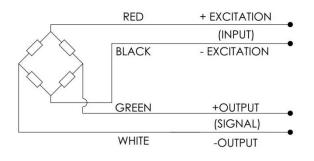
±0.5% of R.O.

 $\pm 0.02\%$ of R.O./°F (± 0.036 of R.O./°C) $\pm 0.04\%$ of LOAD/°F (± 0.072 of LOAD/°C) 5 to 160 °F (-15 to 71 °C) 5 to 160 °F (-15 to 71 °C) 0.02 lb [9 g] Aluminum (2lb – 10lb), SS (25lb – 100lb) 0.004" [0.1mm] nom. IP68 5 VDC 5 pt. Tension & Compression DB9 Male or Female (specify at time of order) M3x0.5 or #4-40 (specify at time of order)

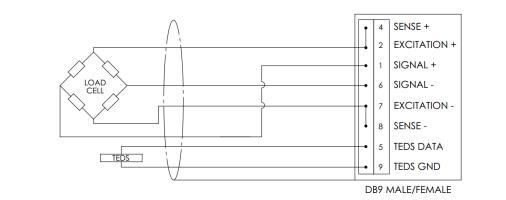
- Wiring
 - The sensor is provided with a #32 AWG 4-conductor braided shielded cable with an outer jacket of 0.087" [2.2 mm] diameter, 5 ft [1.5m] long, with no connection between the shield and the sensor body.

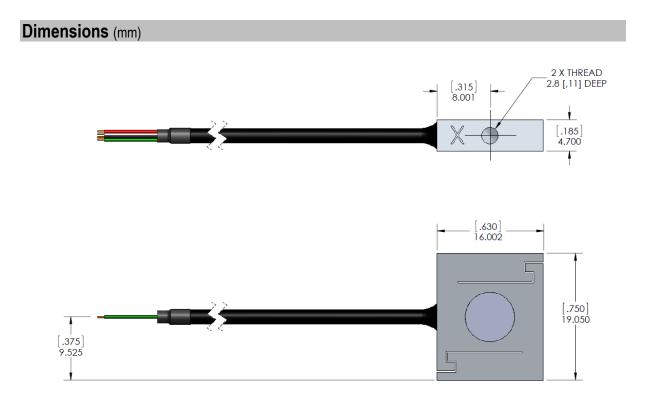


For additional protection, the cable is contained within a stainless steel spring for strain relief purposes for the first 1" [25 mm].



• Connector pin configuration as shown below (for the with-connector version)





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