



Product Description

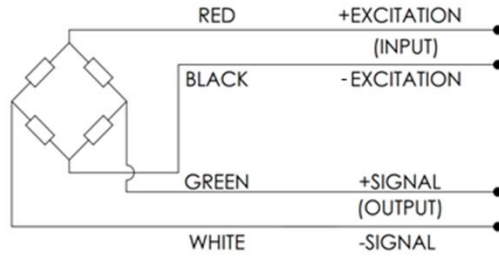
The Miniature S-Beam Load Cell is a bi-directional Aluminium strain gauge based transducer with high performance and built-in temperature compensation. This design provides better than $\pm 0.1\%$ (full scale) non-linearity and includes overload protection in both tension and compression directions. Options include IEEE1451.4 TEDS capability.

Performance Specifications

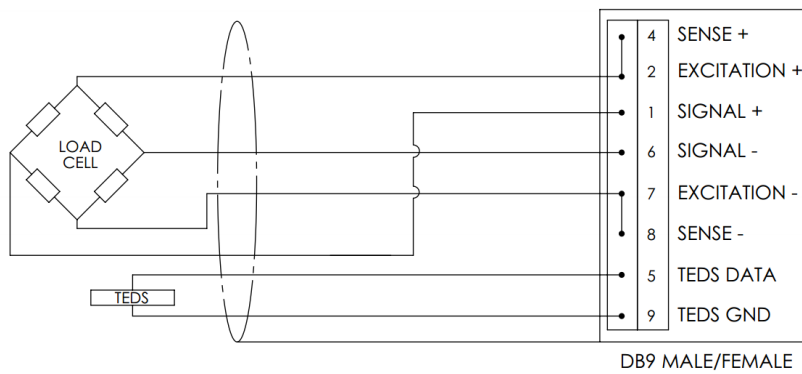
▪ RATED CAPACITY	2, 5 & 10 lbf
▪ RATED OUTPUT (RO)	2mV/V nom.
▪ SAFE OVERLOAD	1000 % of R.O.
▪ NO LOAD OFFSET (ZERO BALANCE)	$\pm 3\%$ of R.O.
▪ EXCITATION (VDC OR VAC)	10 MAX, 5V recommended
▪ INPUT IMPEDANCE	1000 Ω nom.
▪ OUTPUT IMPEDANCE	1000 Ω nom.
▪ NON-LINEARITY	$\pm 0.1\%$ of R.O.
▪ HYSTERESIS	$\pm 0.1\%$ of R.O.
▪ NONREPEATABILITY	$\pm 0.1\%$ of R.O.
▪ TEMP. SHIFT ZERO	$\pm 0.01\%$ of R.O./ $^{\circ}\text{F}$ (± 0.018 of R.O./ $^{\circ}\text{C}$)
▪ TEMP. SHIFT SPAN	$\pm 0.02\%$ of LOAD/ $^{\circ}\text{F}$ (± 0.036 of LOAD/ $^{\circ}\text{C}$)
▪ COMPENSATED TEMP.	5 to 160 $^{\circ}\text{F}$ (-15 to 71 $^{\circ}\text{C}$)
▪ OPERATING TEMP	-60 to 200 $^{\circ}\text{F}$ (-51 to 93 $^{\circ}\text{C}$)
▪ WEIGHT (approx)	0.02 lb [9 g]
▪ MATERIAL	Aluminum
▪ DEFLECTION	0.004" [0.1mm] nom.
▪ IP RATING	IP40
▪ CALIBRATION TEST EXCITATION	5 VDC
▪ CALIBRATION (STD)	5 pt. Tension & Compression
▪ CONNECTOR	DB9 Male or Female (specify at time of order)
▪ THREAD	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)



Dimensions (mm)

