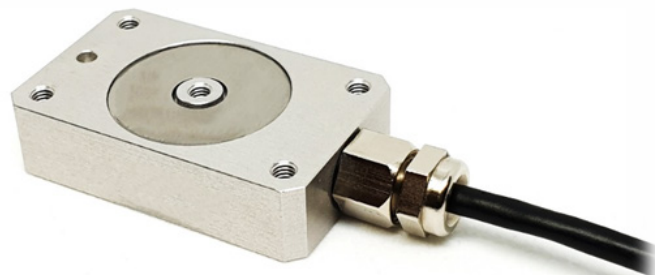


LOW CAPACITY HIGH ACCURACY (BOX TYPE LOAD CELL)

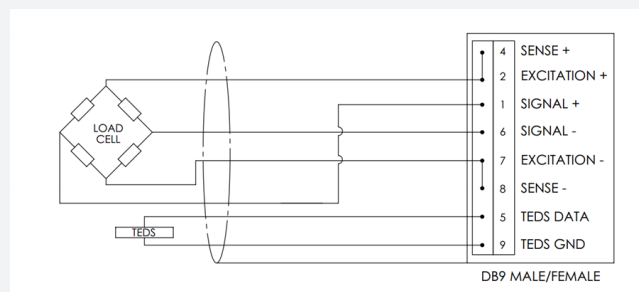
The Low Capacity High Accuracy load cell is an aluminium strain gauge based transducer designed for either tension or compression use, with enhanced stiffness and internal temperature compensation.

This design provides better than $\pm 0.05\%$ (full scale) non-linearity. The load cell is provided with a threaded central hub for loading (a load button is optional), and four threaded holes are provided for either top or bottom mounting.

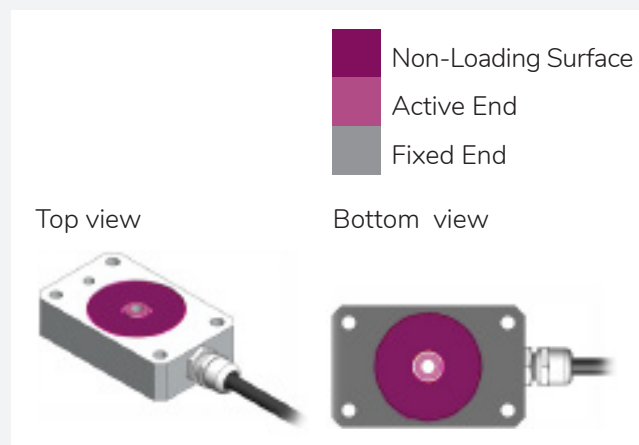
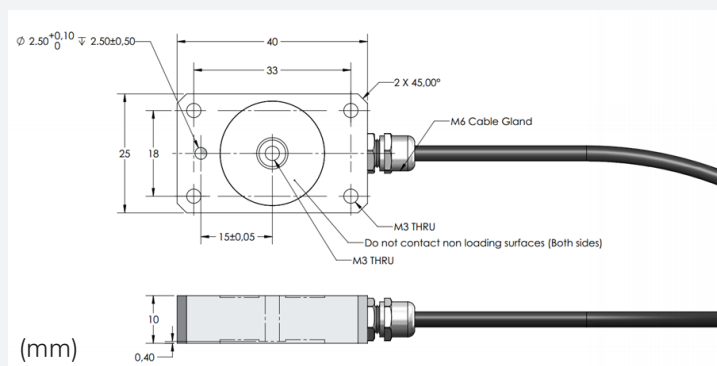


WIRING

- The load cell is provided with a #28 AWG 4-conductor braided shielded cable with outer jacket, 0.12" [3 mm] diameter, 2 ft [0.6m] long, with no connection between the shield and the sensor body.
- Optional DB9 cable mounted connector pin configuration as shown below
- M8 load cell mounted connector also available. Contact factory for pinout details



DIMENSIONS



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LOW CAPACITY HIGH ACCURACY (BOX TYPE LOAD CELL)

SPECIFICATION

PARAMETER	RANGE
Rated Capacity (kg)	1
Rated Output (RO) (mV/V)	1 nominal
Safe Overload (%)	150 of RO
No Load Offset (Zero Balance) (%)	±2 of RO
Excitation (VDC or VAC) (V)	5, 10
Input Impedance	350 Ω
Output Impedance	350 Ω
Non-Linearity (%)	±0.05 of RO
Hysteresis (%)	±0.05 of RO
Non-Repeatability (%)	±0.03 of RO
Creep (30 min.) (%)	≤0.1 of RO
Temperature Shift Zero (%)	±0.01 of RO/°F (±0.018 of RO/°C)
Temperature Shift Span (%)	±0.01 of load/°F (±0.018 of load/°C)
Compensated Temperature (°F)	5 to +160 (-15 to +71°C)
Operating Temperature (°C)	-40 to +93
Weight (lb)	0.09 (40g) approx.
Material	Aluminium (stainless steel covers)
Deflection (in)	0.0004 [0.1mm] nominal
Natural Frequency (Hz)	2800
IP Rating	IP40
Calibration Test Excitation (VDC)	5
Calibration (std.)	5 pt. compression (tension calibration optional)
Connector	None (default) M8 Male connector mounted on the load cell (optional) DB9 cable mounted connector, male or female (optional)
Compliance	RoHS



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