Transducer Techniques®

ACCT

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PRECISION S BEAM LOAD CELL UNIVERSAL / TENSION OR COMPRESSION

SBO SERIES

MADE IN USA

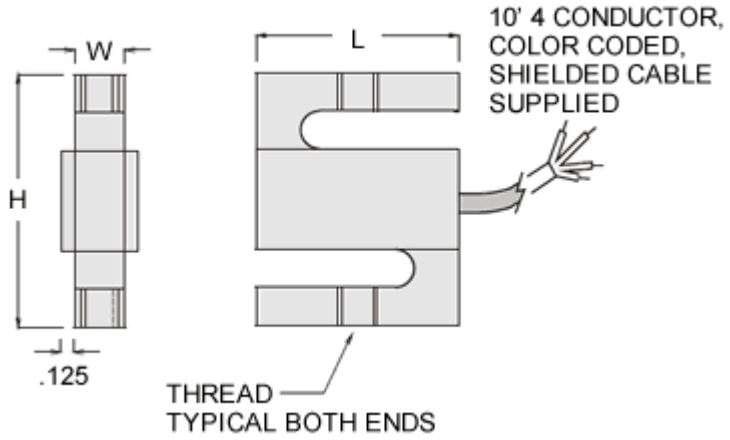
CAPACITY RANGES:
50, 100, 200, 300, 500, 750, 1,000, 2,000, 3,000, 5,000 lb

SB0 Series load cells are offered for tension or compression applications for precision weight and force measurements. Applications might include conveyor scales, check weighers, and counting scales. SB0 Series 50 through 1,000 lb are anodized aluminum and 2,000 through 5,000 lb ranges are made from 17-4ph heat treated stainless steel. The sensing element incorporates bonded foil strain gages of the highest quality and are sealed for protection against most industrial environments.

Specifications

Rated Output (R.O.):	3 mV/V nominal
Nonlinearity:	0.05% of R.O.
Hysteresis:	0.03% of R.O
Nonrepeatability:	0.02% of R.O.
Creep in 20 Min:	0.03% of R.O.
Zero Balance:	1.0% of R.O.
Compensated Temp. Range:	15° to 115°F
Safe Temp. Range:	-65° to 200°F
Temp. Effect on Output:	0.08% of Load/°F
Temp. Effect on Zero:	0.08% of R.O./°F
Terminal Resistance:	350 ohms nominal

Excitation Voltage: 10 VDC
Safe Overload: 150% of R.O.
Calibation Included: Compression
Optional Calibation: Tension



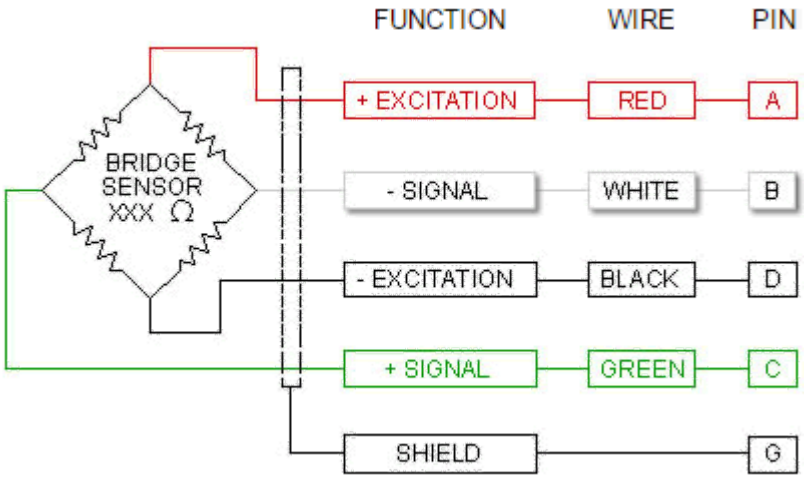
Dimensions in Inches

Model	Capacity lb	L	W	H	Thread
SB0-50	50	2.0	0.5	2.5	3/8-24
SB0-100	100	2.0	0.5	2.5	3/8-24
SB0-200	200	2.0	0.5	2.5	3/8-24
SB0-300	300	2.0	0.5	2.5	3/8-24
SB0-500	500	2.0	1.0	3.0	1/2-20
SB0-750	750	2.0	1.0	3.0	1/2-20
SB0-1K	1,000	2.0	1.0	3.0	1/2-20
SB0-2K	2,000	2.0	1.0	3.0	1/2-20
SB0-3K	3,000	2.0	1.0	3.0	1/2-20
SB0-5K	5,000	2.5	1.5	3.5	5/8-18

Wiring Color Code (WCC1)

4 Conductor

Internal Temperature Compensation and Balance Network Not Shown



OPT-TEDS Plug & Play Option

AD9 (9 PIN "D" Series) Connector attached to the end of a Load Cell or Torque sensor cable with a TEDS (Transducer Electronic Data Sheet) EEPROM. Used with a Smart Plug & Play IEEE 1451.4 Compliant instrument, (shown on right), the Load Cell and Instrument will self calibrate. This option is a real time saver. Read additional article...

EEPROM