

LOW PROFILE COMPRESSION ONLY LOAD BUTTON LOAD CELL WITH MOUNTING HOLES

LBC SERIES



CAPACITY RANGES:

**100, 250, 500, 750, 1,000, 2,000,
3,000, 5,000, 10,000, 15,000,
20,000, 30,000, 50,000 lb**

The LBC Series (Load Button) load cells are offered for compression only applications where space is limited. The matching surface must be flat and at least the diameter of (D1). The loading diameter (D2) is slightly convex for accurate load distribution. Counter bored mounting holes are provided for fastening down from the top. These sensors are manufactured from heat treated 17-4ph stainless steel and sealed for use in most industrial environments.



Rated Output (R.O.): 2 mV/V nominal

Nonlinearity: 0.25% of R.O.

Hysteresis: 0.25% of R.O.

Nonrepeatability: 0.1% of R.O.

Zero Balance: 1.0% of R.O.

Compensated Temp. Range: 60° to 160°F

Safe Temp. Range: -65° to 200°F

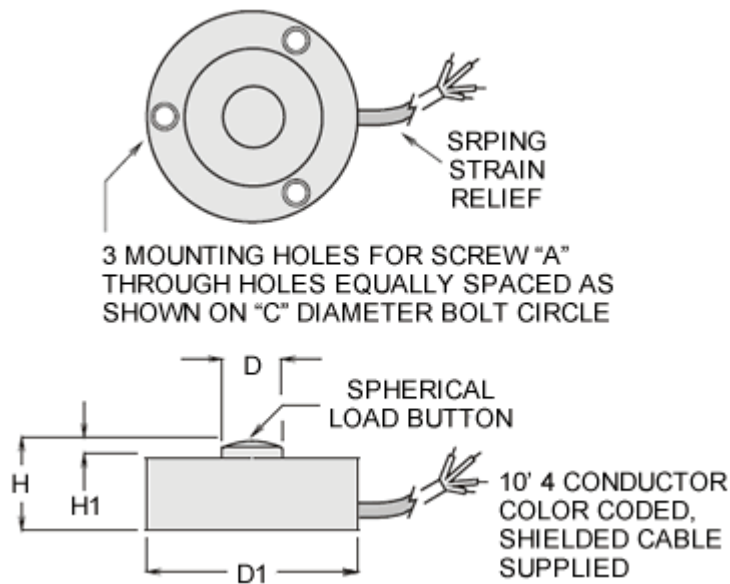
Temp. Effect on Output: 0.005% of Load/°F

Temp. Effect on Zero: 0.01% of R.O./°F

Terminal Resistance: 350 ohms nominal

Excitation Voltage: 10 VDC

Safe Overload: 150% of R.O.



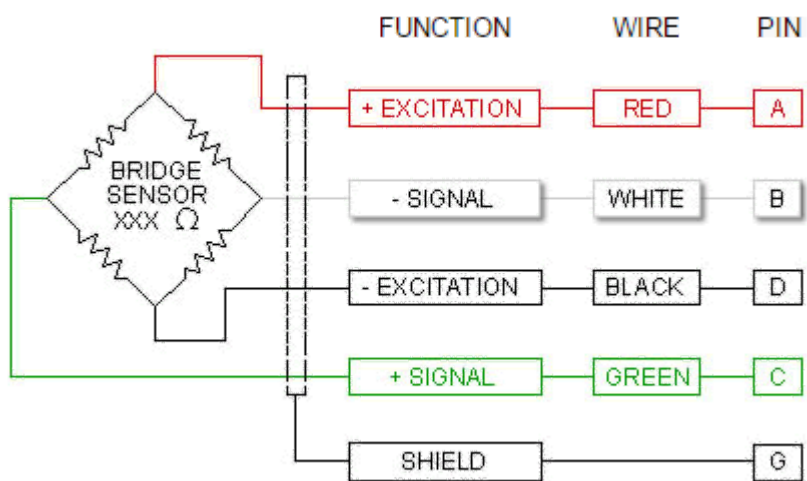
Dimensions in Inches

Model	Capacity lb	D DIA.	D1 DIA.	H	H1	Button Radius	A CAP SCRE	C BOLT CIRCLE	Natural Ringing Frequency HZ	Deflection Inches	wt. oz
LBC-100A	100	.21	1.000	.40	.05	2.0	#1	.750	25,000	.001	1.0
LBC-100	100	.32	1.240	.40	.07	2.0	#2	1.000	25,000	.001	1.2
LBC-250	250	.32	1.240	.40	.07	2.0	#2	1.000	25,000	.001	1.2
LBC-500	500	.32	1.240	.40	.07	2.0	#2	1.000	28,000	.001	1.2
LBC-750	750	.32	1.240	.40	.07	2.0	#2	1.000	28,000	.001	1.2
LBC-1K	1,000	.32	1.240	.40	.07	2.0	#2	1.000	32,000	.001	1.3
LBC-2K	2,000	.32	1.240	.40	.07	2.0	#2	1.000	32,000	.001	1.3
LBC-3K	3,000	.45	1.490	.62	.08	4.0	#4	1.250	28,000	.002	3.0
LBC-5K	5,000	.45	1.490	.62	.08	4.0	#4	1.250	22,000	.002	3.0
LBC-10K	10,000	.45	1.490	.62	.08	4.0	#4	1.250	24,000	.002	3.0
LBC-15K	15,000	.60	1.990	1.00	.12	6.0	#6	1.625	20,000	.002	8.0
LBC-20K	20,000	.60	1.990	1.00	.12	6.0	#6	1.625	20,000	.002	9.0
LBC-30K	30,000	.60	1.990	1.00	.12	6.0	#6	1.625	15,500	.002	9.0
LBC-50K	50,000	.80	2.990	1.50	.18	6.0	#6	2.375	10,000	.003	33.0

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...](#)

