

MINIBEAM LOAD CELLS

EXCEPTIONAL ACCURACY

Compression
5 lb to 250 lb
2.3 kgf to 114 kgf

LCEB Series

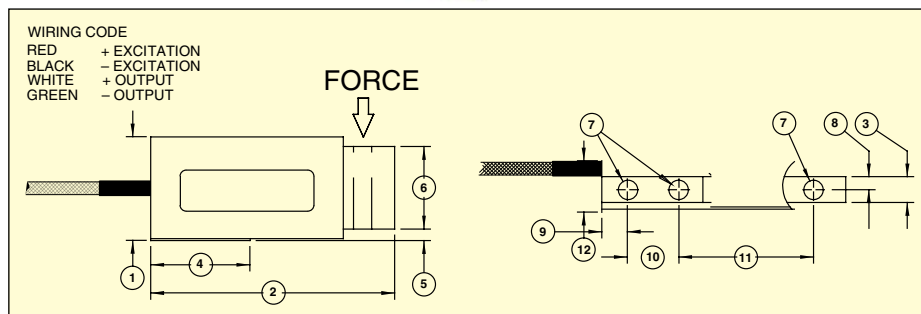


Standard

- ✓ Very High Precision
- ✓ Low Profile—1" Height
- ✓ High Repeatability
- ✓ 100% Creep Tested



LCEB-10, shown actual size.



LCEB load cells offer exceptional accuracy in compression when deployed in controlled environments (in general, anywhere a digital readout is used). Their high accuracy, small size, low creep, and excellent temperature compensation make them excellent choices for force testing, thrust measurements, check weighing, and scale applications.

SPECIFICATIONS

Excitation: 10 Vdc (15V maximum)

Output: 3 mV/V nominal

Calibration: NIST-traceable

Linearity: $\pm 0.03\%$ full scale

Hysteresis: $\pm 0.02\%$ full scale

Repeatability: $\pm 0.01\%$ full scale

Creep (after 20 min): $\pm 0.15\%$

Zero Balance: $\pm 1\%$ full scale

Operating Temp Range:

-55 to 90°C (-65 to 200°F)

Compensated Temp Range:

-15 to 65°C (0 to 150°F)

Thermal Effects:

Zero: $\pm 0.0015\%$ rdg/°F maximum

Span: $\pm 0.0008\%$ full scale/°F maximum

Safe Overload: $\pm 150\%$ of capacity

Ultimate Overload: $\pm 400\%$ of capacity

Input Resistance: 350 Ω $\pm 50/-3.5 \Omega$

Output Resistance: 350 Ω $\pm 3.5 \Omega$

Construction: High-carbon steel

Electrical: 1.5 m (5') insulated

4-conductor shielded color-coded cable

Dimensions in inches and mm

See Drawing Above	CAPACITY (lb)													
	5, 10		25		50		75		100		150		250	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
1	1.01	25.7	1.01	25.7	1.01	25.7	1.01	25.7	1.01	25.7	1.01	25.7	1.02	25.9
2	2.38	60.5	2.38	60.5	2.38	60.5	2.38	60.5	2.38	60.5	2.38	60.5	2.38	60.5
3	0.25	6.4	0.25	6.4	0.25	6.4	0.25	6.4	0.25	6.4	0.25	6.4	0.5	12.8
4	0.97	24.6	0.97	24.6	0.97	24.6	0.97	24.6	0.97	24.6	0.97	24.6	0.97	24.6
5	0.14	3.6	0.11	2.8	0.15	3.8	0.14	3.6	0.13	3.3	0.1	2.5	0.12	3
6	0.75	19.1	0.81	20.6	0.72	18.3	0.75	19.1	0.78	19.8	0.82	20.8	0.79	20.1
7	0.17	4.3	0.17	4.3	0.17	4.3	0.17	4.3	0.17	4.3	0.17	4.3	0.17	4.3
8	0.13	6.4	0.13	6.4	0.13	6.4	0.13	6.4	0.13	6.4	0.13	6.4	0.25	6.4
9	0.25	6.4	0.25	6.4	0.25	6.4	0.25	6.4	0.25	6.4	0.25	6.4	0.25	6.4
10	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7
11	1.31	33.3	1.31	33.3	1.31	33.3	1.31	33.3	1.31	33.3	1.31	33.3	1.31	33.3
12	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	0.75	19.1

To Order

CAPACITY		MODEL NO.	COMPATIBLE METERS*
5 lb	2.3 kgf	LCEB-5	DPiS, DP41-S, DP25B-S
10 lb	4.5 kgf	LCEB-10	DPiS, DP41-S, DP25B-S
25 lb	11 kgf	LCEB-25	DPiS, DP41-S, DP25B-S
50 lb	23 kgf	LCEB-50	DPiS, DP41-S, DP25B-S
75 lb	34 kgf	LCEB-75	DPiS, DP41-S, DP25B-S
100 lb	45 kgf	LCEB-100	DPiS, DP41-S, DP25B-S
150 lb	68 kgf	LCEB-150	DPiS, DP41-S, DP25B-S
250 lb	114 kgf	LCEB-250	DPiS, DP41-S, DP25B-S

* Visit us online for compatible meters. DPiS meter suitable for one direction measurement only.

Ordering Examples: LCEB-10, 10 lb capacity load cell.

LCEB-100, 100 lb capacity load cell.