

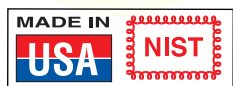
MINIBEAM LOAD CELLS

EXCEPTIONAL ACCURACY

LCEB Series

Compression
5 lb to 250 lb
2.3 kgf to 114 kgf

Starts at
\$160



Standard

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

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 max)

Output: 3 mV/V nominal

Calibration: NIST-traceable

Linearity: $\pm 0.03\%$ FS

Hysteresis: $\pm 0.02\%$ FS

Repeatability: $\pm 0.01\%$ FS

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

Zero Balance: $\pm 1\%$ FS

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 max

Span: $\pm 0.0008\%$ FS/°F max

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

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

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

Output Resistance: 350 Ω ± 3.5 Ω

Construction: High-carbon steel

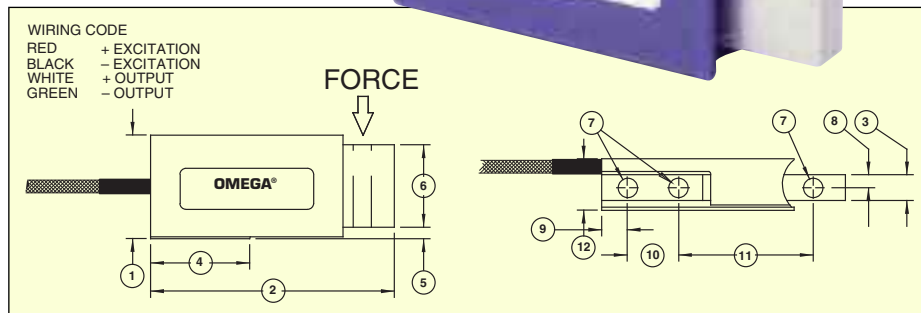
Electrical: 1.5 m (5') insulated

4-conductor shielded color-coded cable

See Section Y for a Selection of Scientific, Technical, and Reference Books Available from omega.com



LCEB-10, \$255, shown actual size.



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

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

CAPACITY		MODEL NO.	PRICE	COMPATIBLE METERS*
5 lb	2.3 kgf	LCEB-5	\$225	DPiS, DP41-S, DP25B-S
10 lb	4.5 kgf	LCEB-10	225	DPiS, DP41-S, DP25B-S
25 lb	11 kgf	LCEB-25	170	DPiS, DP41-S, DP25B-S
50 lb	23 kgf	LCEB-50	160	DPiS, DP41-S, DP25B-S
75 lb	34 kgf	LCEB-75	160	DPiS, DP41-S, DP25B-S
100 lb	45 kgf	LCEB-100	160	DPiS, DP41-S, DP25B-S
150 lb	68 kgf	LCEB-150	160	DPiS, DP41-S, DP25B-S
250 lb	114 kgf	LCEB-250	175	DPiS, DP41-S, DP25B-S

* See section D for compatible meters. DPiS meter suitable for one direction measurement only.

Ordering Examples: LCEB-10, 10 lb capacity load cell, \$225.

LCEB-100, 100 lb capacity load cell, \$160.



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• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

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• Pressure, Strain and Force

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• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters