

# 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 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:** ±0.03% full scale

**Hysteresis:** ±0.02% full scale

**Repeatability:** ±0.01% full scale

**Creep (after 20 min):** ±0.15%

**Zero Balance:** ±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:** ±0.0015% rdg/°F maximum

**Span:** ±0.0008% full scale/°F maximum

**Safe Overload:** ±150% of capacity

**Ultimate Overload:** ±400% of capacity

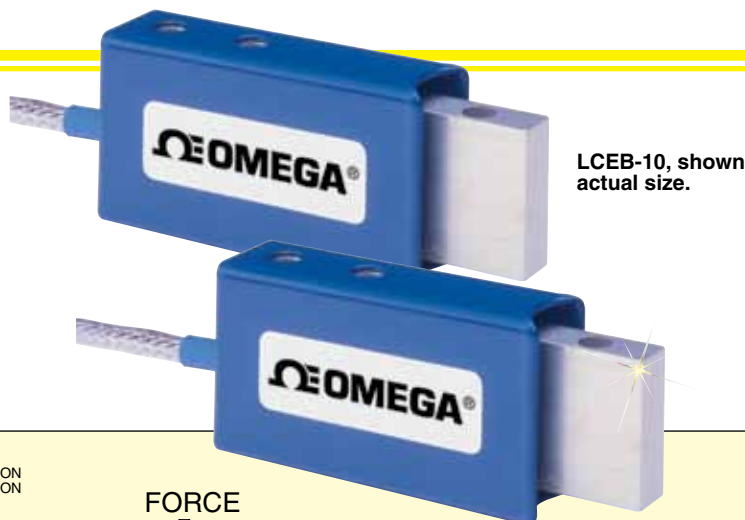
**Input Resistance:** 350 Ω +50/-3.5 Ω

**Output Resistance:** 350 Ω ±3.5 Ω

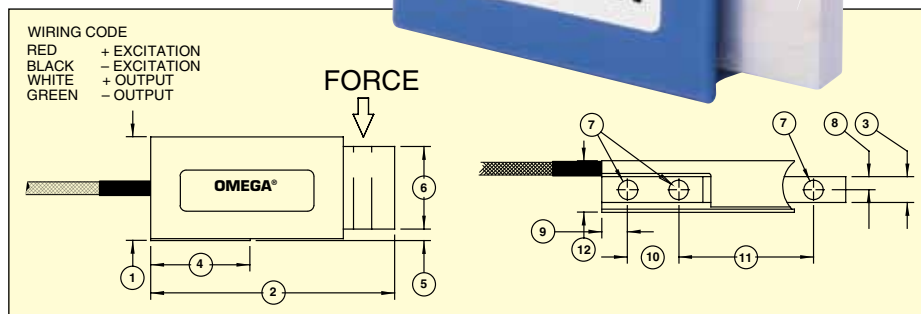
**Construction:** Aluminum

**Electrical:** 1.5 m (5") insulated

4-conductor shielded color-coded cable



LCEB-10, 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

### 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.