

SEALED BEAM LOAD CELLS FOR LOW-CLEARANCE INSTALLATIONS



**Tension/Compression
Calibrated in Compression
50 lb to 1000 lb
23 kg to 455 kgf**



LCEC Series



- ✓ Very High Precision
- ✓ Low Profile
- ✓ Waterproof, Corrosion Resistant
- ✓ Barometrically Insensitive

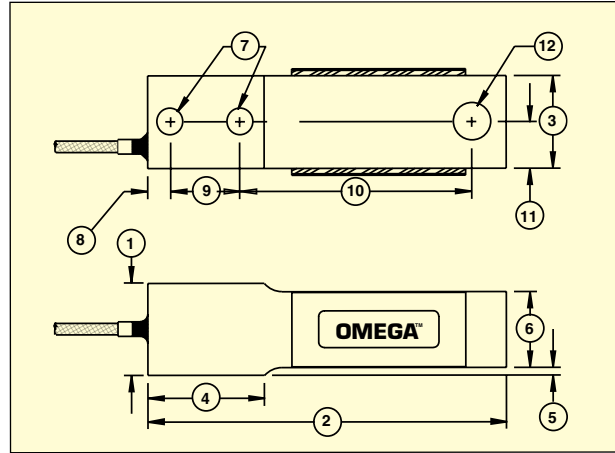
LCEC Series load cells are designed to operate in all weather or wet industrial environments. Their low profile and high side load capability simplify mechanical installation considerations. Their weather sealing, high precision, and repeatability make them ideal for rugged industrial use in testing, batching, weigh pits, and applications that are exposed to the elements.

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): $\pm 0.03\%$
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: $\pm 300\%$ of capacity
Input Resistance: $350 \Omega \pm 50/-3.5 \Omega$
Allowable Side Load at Rated Load: 50% rated capacity
Protection Class: IP67

LCEC-1K shown actual size.

Output Resistance: $350 \pm 3.5 \Omega$
Construction: Aluminum
Electrical: 3 m (10') insulated 4-conductor shielded color-coded cable



Dimensions: inches and mm

See Drawing Above	CAPACITY (lb)									
	50		100		250		500		1000	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
1	0.98	24.9	0.98	24.9	0.98	24.9	1.00	25.4	1.50	38.1
2	2.38	60.5	2.38	60.5	2.38	60.5	3.88	98.6	5.00	127.0
3	0.50	12.7	0.50	12.7	0.50	12.7	0.50	12.7	1.00	25.4
4	0.97	24.6	0.97	24.6	0.97	24.6	1.25	31.8	1.75	44.5
5	0.11	2.80	0.11	2.80	0.11	2.80	0.09	2.30	0.10	2.50
6	0.82	20.8	0.82	20.8	0.82	20.8	0.82	20.8	1.36	34.5
7	0.17	4.30	0.17	4.30	0.17	4.30	0.28	7.10	0.41	10.3
8	0.25	6.40	0.25	6.40	0.25	6.40	0.25	6.40	0.38	9.70
9	0.50	12.7	0.50	12.7	0.50	12.7	0.75	19.1	1.00	25.4
10	1.31	33.3	1.31	33.3	1.31	33.3	2.50	63.5	3.25	82.6
11	0.25	6.40	0.25	6.40	0.25	6.40	0.50	12.7	0.50	12.7
12	0.17	4.30	0.17	4.30	0.17	4.30	0.40	10.2	0.40	10.2

To Order

CAPACITY	MODEL NO.	COMPATIBLE METERS*
50 lb	LCEC-50	DPiS, DP41-S, DP25B-S
100 lb	LCEC-100	DPiS, DP41-S, DP25B-S
250 lb	LCEC-250	DPiS, DP41-S, DP25B-S
500 lb	LCEC-500	DPiS, DP41-S, DP25B-S
1000 lb	LCEC-1K	DPiS, DP41-S, DP25B-S

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

Ordering Examples: LCEC-250, 250 lb capacity load cell.
LCEC-1K, 1000 lb capacity load cell.