

# 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

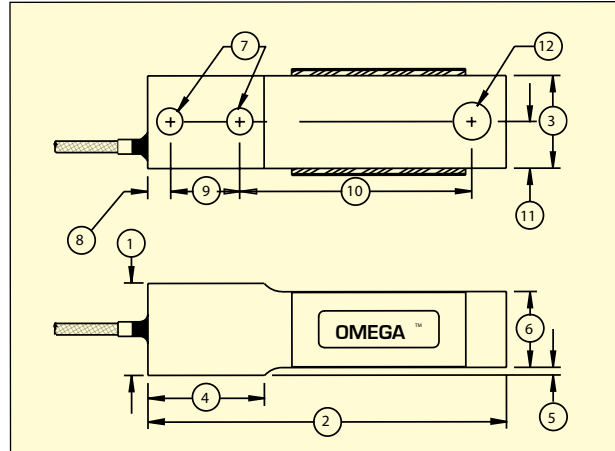
LCEC Series load cells are designed to operate in all weather or wet industrial environments. Their low profile and high side load capability simplify mechanical installation considerations. Their weather sealing, high precision, and repeatability make them ideal for rugged industrial use in testing, 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  $\Omega$  +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 | 1.0  | 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 | 0.25 | 6.40 | 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.