

DOUBLE ENDED SHEAR BEAM LOAD CELLS

FOR HEAVY DUTY WEIGHING APPLICATIONS

LCTB SERIES 0-5000 LB TO 0-150,000 LB

The LCTB series is no longer available. Please see the LC1001 series as a potential substitute, or contact our sales department.

LCTB From
\$625



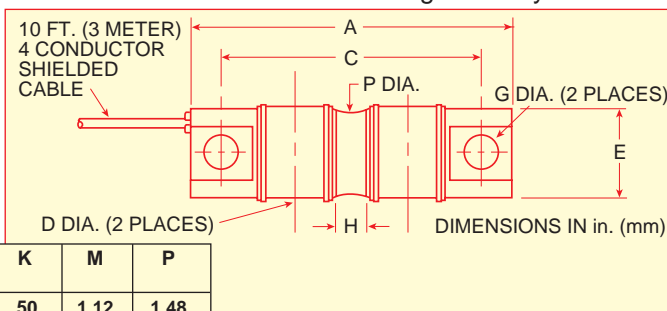
Shown installed on TWA-2 weighing assembly, \$315, see page F-65

- ✓ 0.1% Interchangeability
- ✓ Water Resistant for Washdown Applications
- ✓ Mounting Hardware Available
- ✓ Nickel-Plated Alloy Steel
- ✓ Calibration Certificate Included

OMEGA's LCTB is a double-ended shear beam load cell. Its high accuracy, low profile, tolerance to non-axial loading, and redundant seal make this cell a good choice for tank, bin and weighing assemblies in wet, corrosive environments. The redundant seal allows the cell to be submerged for extended periods without affecting accuracy.

| FUNCTION | WIRING | COLOR |
|--------------|--------|--------|
| + EXCITATION | | RED |
| - EXCITATION | | BLACK |
| + OUTPUT | | GREEN |
| - OUTPUT | | WHITE |
| SHIELD | | ORANGE |

Shown smaller than actual size



Dimensions in Inches (mm)

| CAPACITY LB (TONS) | A | C | D DIA | E | G | H | J | K | M | P |
|----------------------|---------------|---------------|-------------|-------------|--------------|-------------|--------------|-------------|-------------|-------------|
| 5 K-20 K (2.3-9.1) | 8.12 (206.3) | 6.875 (174.6) | 2.20 (55.9) | 1.70 (43.2) | .656 (16.7) | .62 (15.8) | 5.24 (133.1) | .50 (12.7) | 1.12 (28.5) | 1.48 (37.6) |
| 50 K (23) | 10.25 (260.4) | 8.500 (215.9) | 3.20 (81.3) | 3.00 (76.2) | 1.060 (26.9) | 1.00 (25.4) | 6.50 (165.1) | 1.00 (25.4) | 2.37 (60.2) | 2.73 (69.3) |
| 100 K-150 K (45, 68) | 11.25 (285.8) | 9.500 (241.3) | 3.75 (95.3) | 3.50 (89.0) | 1.060 (26.9) | 1.00 (25.4) | 7.50 (190.5) | 1.00 (25.4) | 2.50 (63.5) | 3.24 (82.3) |

MOST POPULAR MODELS HIGHLIGHTED

To Order (Specify Model Number)

| MODEL NO. | PRICE | RATED CAPACITY | FS. DEFL. | WT LB | COMPATIBLE METERS** |
|-----------|-------|----------------|-----------|-------|---------------------|
| LCTB-5K | \$625 | 5000 lb | 0.20" | 5 | DP87, DP41-S |
| LCTB-10K | 625 | 10,000 lb | 0.025" | 5 | DP87, DP41-S |
| LCTB-20K | 625 | 20,000 lb | 0.042" | 5 | DP87, DP41-S |
| LCTB-30K | 715 | 30,000 lb | 0.020" | 16 | DP87, DP41-S |
| LCTB-50K | 805 | 50,000 lb | 0.020" | 16 | DP87, DP41-S |
| LCTB-100K | 1375 | 100,000 lb | 0.020" | 24 | DP87, DP41-S |
| LCTB-150K | 1375 | 150,000 lb | 0.020" | 24 | DP87*, DP41-S |

See page F-65 for detailed information on weighing assemblies.
 *Note: 5-digit meter; user must use dummy zeros or count in tons.
 **See Section D For Compatible Meters
Ordering Example: For a 20,000 lb capacity system: LCTB-20K and TWA-2-20K, \$625 + 315 = \$940

SPECIFICATIONS

Rated Output: 3 mV/V ±0.003 mV/V
Excitation: 10 Vdc, 15 Vdc max.
Accuracy: ±0.03% FS
Repeatability: ±0.01% FS
Zero Balance: 1% FS
Creep In 20 min: ±0.03% Rdg
Operating Temp. Range: -65 to 200°F (-54 to 93°C)
Compensated Temp. Range: 0 to 150°F (-18 to 66°C)
Thermal Effects: Zero: 0.0015% FS/°F; Output: 0.0008% Rdg/°F
Max. Load: Safe: 150% FS; ultimate, 300% FS; Side load: 100% FS
Bridge Resistance: 700 ±7 Ω
Construction: Nickel-plated steel
Electrical: 10 in 4-conductor shielded cable



UNITED STATES

www.omega.com
1-800-TC-OMEGA
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CANADA

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1-800-TC-OMEGA

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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

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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