

ULTRA-LOW-CAPACITY BENDING BEAM LOAD CELLS

Bidirectional
0-10 g to 0-100 g

LCUB Series

- ✓ Low Capacities from 10 to 100 g
- ✓ Can be Used in Tension or Compression
- ✓ Unbonded Strain Gage Design

The LCUB load cell is an ultra-low-capacity, bending beam load cell designed for laboratory force measurement. It is constructed using an unbonded strain gage, which permits measurement of small forces. The LCUB load cell is available in 5 capacities, from 10 to 100 g, and can be used in tension or compression.

SPECIFICATIONS

Full Scale Output: 1.75 mV/V $\pm 20\%$

Excitation: 3 Vdc or less

Linearity: $\pm 0.3\%$ FS

Hysteresis: $\pm 0.3\%$ FS

Repeatability: $\pm 0.3\%$ FS

Zero Balance: $\pm 10\%$ FS

Operating Temperature:

-50 to 80°C (-58 to 176°F)

Compensated Temperature:

0 to 50°C (32 to 122°F)

Zero Temp Effect: $\pm 0.028\%$ FS/°F

Span Temp Effect: $\pm 0.028\%$ rdg/°F

Bridge Resistance: 270 ± 40 Ω

Insulation Resistance:

1000 M Ω min @ 50 Vdc

Safe Overload: 130% FS

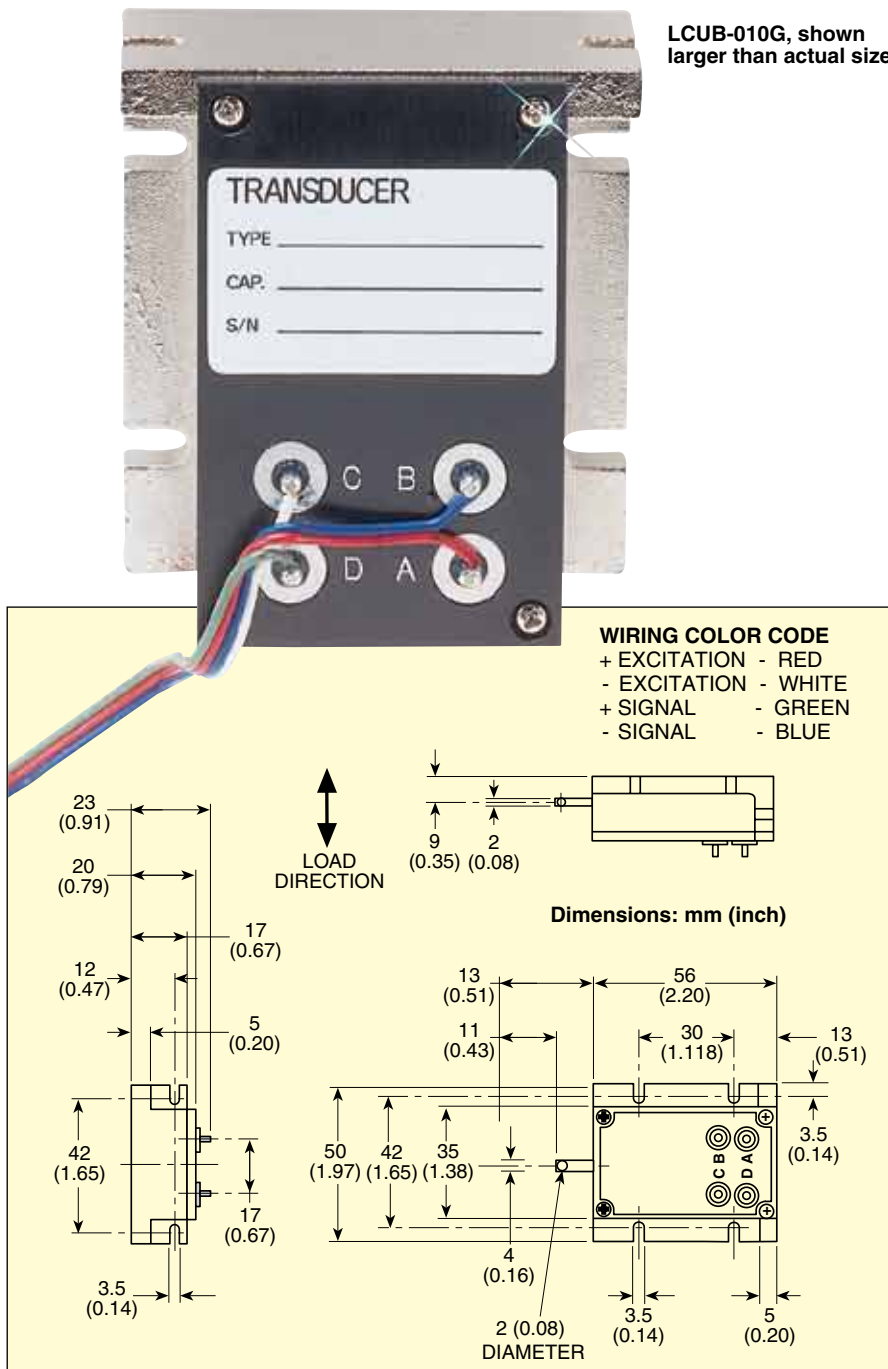
Full Scale Deflection: 0.016"

Electrical Connection:

24" 4-conductor cable

Weight: 98 g (3.5 oz)

LCUB-010G, shown larger than actual size.



To Order Visit omega.com/lcub for Pricing and Details

CAPACITY		MODEL NO.	COMPATIBLE METERS*
g	lb		
10	0.022	LCUB-010G	DP41-S, DP25B-S
20	0.043	LCUB-020G	DP41-S, DP25B-S
50	0.11	LCUB-050G	DP41-S, DP25B-S
100	0.22	LCUB-100G	DP41-S, DP25B-S

* Visit omega.com for compatible meters.

Ordering Example: LCUB-010G, ultra-low-capacity load cell with 10 g (0.022 lb) range.