

HIGH-ACCURACY S-BEAM LOAD CELLS

RUGGED FOR INDUSTRIAL APPLICATIONS

LCR Series

25 to 10,000 lb Capacities
11 to 4536 kgf Capacities

Starts at
\$270



- ✓ High Accuracy
- ✓ 5-Point Calibration Included
- ✓ 0.25% Interchangeability for Multiple Load Cell Applications
- ✓ Lightweight Aluminum Construction Ranges to 1000 lb
- ✓ Rugged Stainless Steel on Upper Ranges

SPECIFICATIONS

Excitation: 10 Vdc, 15V max

Output: 3 mV/V $\pm 0.25\%$

Calibration: 5 point in tension
(0%, 50%, 100%, 50%, 0%)

Linearity: $\pm 0.03\%$

Hysteresis: $\pm 0.02\%$

Repeatability: $\pm 0.01\%$

Creep (20 min): $\pm 0.03\%$

Operating Temperature: -18 to 71°C
(0 to 150°F)



Compensated Temperature:
17 to 71°C (60 to 160°F)

Thermal Effects:

Zero: $\pm 0.0027\%$ FS/°C

Span: $\pm 0.0015\%$ rdg/°C

Safe Overload: 150% of capacity

Ultimate Overload: 300% of capacity

Bridge Resistance: 350 Ω nominal

Protection Level: IP55

Material:

≤ 1000 lb Ranges: Aluminum

> 1000 lb Ranges: 17-4 PH SS

Electrical Connection: 6 m (20')

Wiring:

Red: (+) Excitation

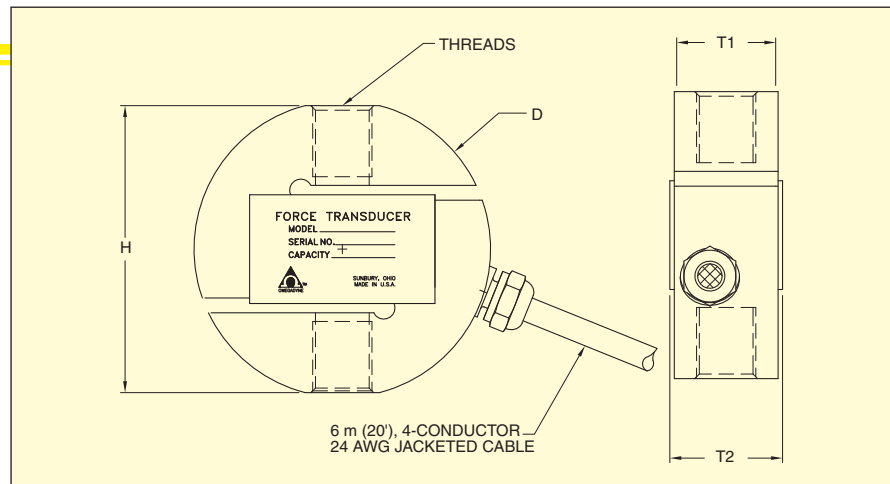
Black: (-) Excitation

Green: (+) Output

White: (-) Output



ECONOMICAL S-BEAM LOAD CELLS

See Section Y for a
Selection of Scientific,
Technical, and Reference
Books Available from
omega.com



CAPACITY		THREADS	Dimensions: mm (in)					WEIGHT kg (lb)
lb	kgf		H	D	T1	T2	DEFL.	
25	11	1/4-28 UNF-2B	49 (1.94)	51 (2)	14 (0.55)	23 (0.9)	0.28 (0.01)	0.18 (0.4)
50	23	1/4-28 UNF-2B	49 (1.94)	51 (2)	14 (0.55)	23 (0.9)	0.25 (0.01)	0.18 (0.4)
100	45	1/4-28 UNF-2B	49 (1.94)	51 (2)	14 (0.55)	23 (0.9)	0.23 (0.01)	0.18 (0.4)
150	68	1/4-28 UNF-2B	49 (1.94)	51 (2)	14 (0.55)	23 (0.9)	0.23 (0.01)	0.18 (0.4)
200	91	1/4-28 UNF-2B	49 (1.94)	51 (2)	14 (0.55)	23 (0.9)	0.25 (0.01)	0.18 (0.4)
250	113	1/2-20 UNF-2B	61 (2.42)	64 (2.5)	22 (0.88)	30 (1.2)	0.23 (0.01)	0.36 (0.8)
500	227	1/2-20 UNF-2B	61 (2.42)	64 (2.5)	22 (0.88)	30 (1.2)	0.23 (0.01)	0.36 (0.8)
750	340	1/2-20 UNF-2B	61 (2.42)	64 (2.5)	22 (0.88)	30 (1.2)	0.23 (0.01)	0.36 (0.8)
1000	454	1/2-20 UNF-2B	61 (2.42)	64 (2.5)	22 (0.88)	30 (1.2)	0.23 (0.01)	1.04 (2.3)
2000	907	1/2-20 UNF-2B	61 (2.42)	64 (2.5)	22 (0.88)	30 (1.2)	0.23 (0.01)	1.04 (2.3)
3000	1361	1/2-20 UNF-2B	61 (2.42)	64 (2.5)	22 (0.88)	30 (1.2)	0.23 (0.01)	1.04 (2.3)
5000	2269	3/4-16 UNF-2B	87 (3.4)	89 (3.5)	32 (1.25)	38 (1.5)	0.28 (0.01)	2.54 (5.6)
10,000	4537	3/4-16 UNF-2B	87 (3.4)	89 (3.5)	32 (1.25)	46 (1.8)	0.36 (0.01)	3.09 (6.8)

MOST POPULAR MODELS HIGHLIGHTED!

To Order <i>(Specify Model Number)</i>								
CAPACITY		MODEL NO.	PRICE	COMPATIBLE METERS*	LOAD BUTTON		ROD END	
lb	kgf				MODEL NO.	PRICE	MODEL NO.	PRICE
25	11	LCR-25	\$270	DP41-S, DP25B-S, DPI8-S	LBC-014	\$40	REC-014M	\$25
50	23	LCR-50	270	DP41-S, DP25B-S, DPI8-S	LBC-014	40	REC-014M	25
100	45	LCR-100	270	DP41-S, DP25B-S, DPI8-S	LBC-014	40	REC-014M	25
150	68	LCR-150	270	DP41-S, DP25B-S, DPI8-S	LBC-014	40	REC-014M	25
200	91	LCR-200	270	DP41-S, DP25B-S, DPI8-S	LBC-014	40	REC-014M	25
250	113	LCR-250	270	DP41-S, DP25B-S, DPI8-S	LBC-012	40	REC-012M	45
500	227	LCR-500	270	DP41-S, DP25B-S, DPI8-S	LBC-012	40	REC-012M	45
750	340	LCR-750	270	DP41-S, DP25B-S, DPI8-S	LBC-012	40	REC-012M	45
1000	454	LCR-1K	270	DP41-S, DP25B-S, DPI8-S	LBC-012	40	REC-012M	45
2000	907	LCR-2K	280	DP41-S, DP25B-S, DPI8-S	LBC-012	40	REC-012M	45
3000	1361	LCR-3K	340	DP41-S, DP25B-S, DPI8-S	LBC-012	40	REC-012M	45
5000	2269	LCR-5K	420	DP41-S, DP25B-S, DPI8-S	LBC-034	55	REC-034M	65
10,000	4537	LCR-10K	440	DP41-S, DP25B-S, DPI8-S	LBC-034	55	REC-034M	65

Comes complete with 5-point NIST-traceable calibration and 59 kΩ shunt data.

Ordering Example: LCR-1K, 1000 lb capacity load cell, and two REC-012M, rod ends, \$45 ea, \$270 + (2 x 45) = \$360.

*See section D for compatible meters. DPI8 meter suitable for one direction measurement only.



UNITED STATES

www.omega.com

1-800-TC-OMEGA
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CANADA

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GERMANY

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• Pressure, Strain and Force

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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