

LOW RANGE S-BEAM LOAD CELLS

WITH 500% OVERLOAD PROTECTION

25 to 750 lb Capacities
11 to 340 kg Capacities

LCCE Series



- ✓ Protected to 500% Full Scale Overload
- ✓ High Accuracy
- ✓ 5-Point Calibration Included
- ✓ 0.25% Interchangeability for Multiple Load Cell Applications
- ✓ Rugged Stainless Steel Construction on All Ranges

The LCCE S-Beam load cells are designed with mechanical overload protection to 500% of FS in both tension and compression. This unique design gives you an extra level of protection and functionality that is typically an extra cost option on most load cells. When overloaded, the load cell is protected by a unique locking design. When the overload

is removed, the load cell unlocks and returns to normal function. The stainless steel sensing element makes this load cell one of the most durable models available.

SPECIFICATIONS

Excitation: 10 Vdc, 15V maximum

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

Calibration: 5 point NIST traceable in tension 0%, 50%, 100%, 50%, 0%

Linearity: $\pm$ 0.03% full scale

Hysteresis: $\pm$ 0.02% full scale

Repeatability: $\pm$ 0.01% full scale

Zero Balance: $\pm$ 1% full scale

Creep in 20 minutes: $\pm$ 0.03% full scale

Operating Temperature: -18 to 65°C (0 to 150°F)

Compensated Temperature: -18 to 65°C (0 to 150°F)

Thermal Effects:

Zero: $\pm$ 0.0027% FS/°C

Span: $\pm$ 0.0014% rdg/°C

Safe Overload: 500% capacity tension and compression

Ultimate Overload: 500% capacity

Bridge Resistance: 350 Ω nominal

Protection Level: IP67

Material: 17-4 PH SS element, aluminum side cover

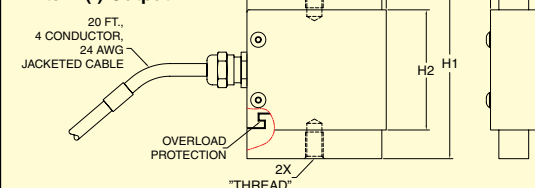
Electrical Connection: 6 m (20') 4-conductor 24 AWG jacketed cable



LCCE-250 shown actual size.

Wiring:

Red (+) Excitation
 Black (-) Excitation
 Green (+) Output
 White (-) Output



Dimensions: mm (inch)

CAPACITY		THREADS	Dimensions: mm (inch)						WEIGHT* kg (lb)
lb	kg		H1	H2	W	T1	T2	DEFL*	
25	11	¼-28 UNF-2B	64 (2.5)	43 (1.7)	48 (1.9)	10 (0.4)	17 (0.65)	0.28 (0.011)	0.18 (0.4)
50	23	¼-28 UNF-2B	64 (2.5)	43 (1.7)	48 (1.9)	10 (0.4)	17 (0.65)	0.25 (0.010)	0.18 (0.4)
100	45	¼-28 UNF-2B	64 (2.5)	43 (1.7)	48 (1.9)	10 (0.4)	17 (0.65)	0.23 (0.009)	0.18 (0.4)
150	68	¼-28 UNF-2B	64 (2.5)	43 (1.7)	48 (1.9)	10 (0.4)	17 (0.65)	0.23 (0.009)	0.18 (0.4)
200	91	¼-28 UNF-2B	64 (2.5)	43 (1.7)	48 (1.9)	10 (0.4)	17 (0.65)	0.25 (0.010)	0.18 (0.4)
250	113	⅜-24 UNF-2B	76 (3.0)	46 (1.8)	48 (1.9)	13 (0.5)	18 (0.70)	0.23 (0.009)	0.27 (0.6)
500	227	½-20 UNF-2B	76 (3.0)	46 (1.8)	48 (1.9)	18 (0.7)	24 (0.95)	0.25 (0.010)	0.36 (0.8)
750	340	½-20 UNF-2B	76 (3.0)	46 (1.8)	48 (1.9)	18 (0.7)	24 (0.95)	0.15 (0.006)	0.41 (0.9)

* For reference only

To Order

CAPACITY		MODEL NO.	COMPATIBLE METERS	LOAD BUTTON MODEL NO.	ROD END MODEL NO.
lb	kg				
25	11	LCCE-25	DP41-S, DP25B-S, DPI8-S	LBC-014	REC-014M
50	23	LCCE-50	DP41-S, DP25B-S, DPI8-S	LBC-014	REC-014M
100	45	LCCE-100	DP41-S, DP25B-S, DPI8-S	LBC-014	REC-014M
150	68	LCCE-150	DP41-S, DP25B-S, DPI8-S	LBC-014	REC-014M
200	91	LCCE-200	DP41-S, DP25B-S, DPI8-S	LBC-014	REC-014M
250	113	LCCE-250	DP41-S, DP25B-S, DPI8-S	LBC-038	REC-038M
500	227	LCCE-500	DP41-S, DP25B-S, DPI8-S	LBC-012	REC-012M
750	340	LCCE-750	DP41-S, DP25B-S, DPI8-S	LBC-012	REC-012M

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

Ordering Examples: LCCE-25, 25 lb range high overload S-Beam load cell.

LCCE-500, 500 lb range high overload S-Beam load cell.