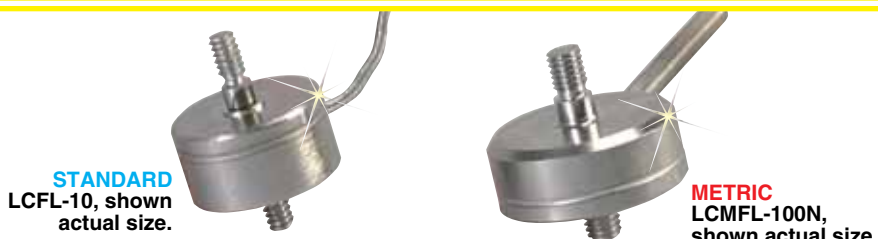


19 mm (0.75") and 25.4 mm (1") DIAMETER ECONOMICAL MINIATURE TENSION OR COMPRESSION LOAD CELLS **STANDARD** AND **METRIC** RANGES

**Tension/Compression
Calibrated in Tension
0-2.2 lb to 0-100 lb
10 N to 0-500 N**



LCFL/LCMFL Series



Small and capable of highly accurate readings, the LCFL/LCMFL subminiature load cells are suitable for precision industrial applications. They are all stainless steel, measure either tension or compression loads, and have male thread studs for load attachment. The exclusive internal design provides superior long-term stability and minimizes the effects of small off-axis loads.

SPECIFICATIONS

Excitation:

≤10 lb/50 N: 5 Vdc
≥25 lb/100 N: 10 Vdc

Output:

2.2 lb/10 N: 1 mV/V (nom.)
≥5 lb/20 N: 2 mV/V (nom.)

Accuracy (Linearity and Hysteresis Combined): ±0.50% FSO

Repeatability: ±0.20% FSO

5-Point Calibration (in Tension):

0%, 50%, 100%, 50%, 0%

Zero Balance: ±2% FSO

Operating Temp Range:

-53 to 121°C (-65 to 250°F)

Compensated Temp Range:

16 to 71°C (60 to 160°F)

Thermal Effects:

Span: ±0.009% rdg/°C

Zero: 0.009% FSO/°C

Deflection FS: 0.03 to 0.08 mm (0.001 to 0.003")

Safe Overload: 150% of capacity

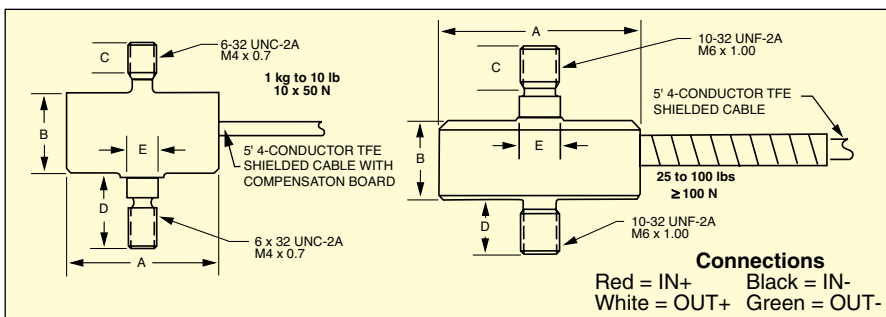
Ultimate Overload: 300% of capacity

Bridge Resistance: 350 Ω minimum

Construction: Stainless steel

Electrical Connection: 1.5 m (5') 4-conductor, shielded PTFE cable

Protection Rating: IP54



Dimensions: mm (inch)

CAPACITY	A	B	C	D	E
10 to 50 N, 2.2 to 10 lb	19.1 (0.75)	10.1 (0.40)	6.4 (0.25)	9.7 (0.38)	3.8 (0.15)
100 to 500 N, 25 to 100 lb	25.4 (1.00)	9.9 (0.39)	9.7 (0.38)	7.0 (0.26)	5.0 (0.20)

To Order

CAPACITY			
lb	N	MODEL NO.	COMPATIBLE METERS
STANDARD MODELS			
2.2	9.8	LCFL-1KG	DPiS, DP41-S, DP25B-S
5	22.2	LCFL-5	DPiS, DP41-S, DP25B-S
10	44.5	LCFL-10	DPiS, DP41-S, DP25B-S
25	111	LCFL-25	DPiS, DP41-S, DP25B-S
50	222	LCFL-50	DPiS, DP41-S, DP25B-S
75	334	LCFL-75	DPiS, DP41-S, DP25B-S
100	445	LCFL-100	DPiS, DP41-S, DP25B-S
METRIC MODELS			
N	lb		
10	2.2	LCMFL-10N	DP25B-S, DP41-S, DPiS
20	4.5	LCMFL-20N	DP25B-S, DP41-S, DPiS
50	11	LCMFL-50N	DP25B-S, DP41-S, DPiS
100	22	LCMFL-100N	DP25B-S, DP41-S, DPiS
200	45	LCMFL-200N	DP25B-S, DP41-S, DPiS
500	112	LCMFL-500N	DP25B-S, DP41-S, DPiS

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

DPiS meter suitable for one direction measurement only.

Ordering Examples: **LCFL-1KG**, 2.2 lb load cell, matching rod end, **REC-006F**, **LCMFL-100N**, 100 N load cell, **MREC-M6F**, matching rod end.

ACCESSORIES

MODEL NO.	DESCRIPTION
REC-006F	6-32 UNC female rod end for LCFL ≤10 lb
REC-010F	10-32 UNF female rod end for LCFL ≥25 lb
MREC-M6F	M6 x 1.00 female rod end for LCMFL ≥100 N