

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

## LCFL/LCMFL Series

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

All Models  
**\$595**



Standard

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

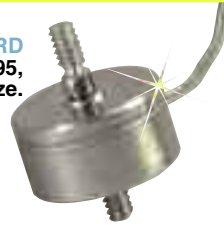
#### Bridge Resistance: 350 Ω minimum

#### Construction: Stainless steel

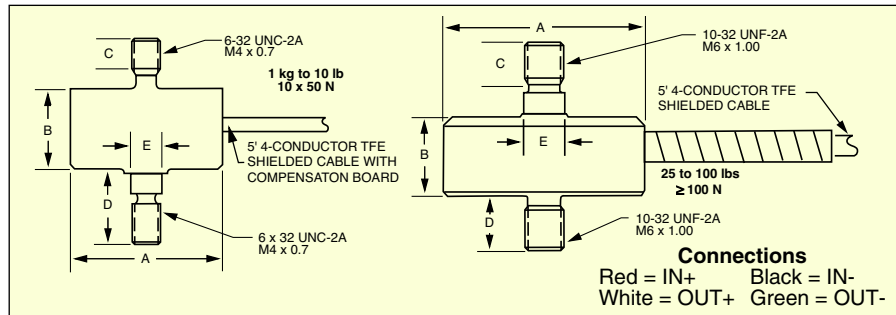
#### Electrical Connection: 1.5 m (5') 4-conductor, shielded TFE cable

#### Protection Rating: IP54

**STANDARD**  
LCFL-10, \$595,  
shown actual size.



**METRIC**  
LCFL-100, \$595,  
shown actual size.



#### Dimensions: mm (in)

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)

**MOST POPULAR MODELS HIGHLIGHTED!**

### To Order (Specify Model Number)

CAPACITY		MODEL NO.	PRICE	COMPATIBLE METERS*
lb	N			
<b>STANDARD MODELS</b>				
2.2	9.8	LCFL-1KG	\$595	DPiS, DP41-S, DP25B-S
5	22.2	LCFL-5	595	DPiS, DP41-S, DP25B-S
10	44.5	LCFL-10	595	DPiS, DP41-S, DP25B-S
25	111	LCFL-25	595	DPiS, DP41-S, DP25B-S
50	222	LCFL-50	595	DPiS, DP41-S, DP25B-S
75	334	LCFL-75	595	DPiS, DP41-S, DP25B-S
100	445	LCFL-100	595	DPiS, DP41-S, DP25B-S
<b>METRIC MODELS</b>				
N	lb			
10	2.2	LCMFL-10N	\$595	DP25B-S, DP41-S, DPiS
20	4.5	LCMFL-20N	595	DP25B-S, DP41-S, DPiS
50	11	LCMFL-50N	595	DP25B-S, DP41-S, DPiS
100	22	LCMFL-100N	595	DP25B-S, DP41-S, DPiS
200	45	LCMFL-200N	595	DP25B-S, DP41-S, DPiS
500	112	LCMFL-500N	595	DP25B-S, DP41-S, DPiS

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

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

Ordering Examples: LCFL-1KG, 2.2 lb load cell, \$595, matching rod end, REC-006F, \$10 ea.

LCMFL-100N, 100 N load cell, \$595, MREC-M6F, matching rod end, \$25.

#### ACCESSORIES

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



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