

LFB Series

Light to Medium Capacity Shear Beam Load Cells



- **125, 250, 500, and 1,250 kg capacities (and lb equivalents)**
- **Stainless steel construction**
- **3 mechanical loading options**
- **OIML certified**

Cardinal Scale's USA-made 125-kg to 1,250-kg capacity LFB series shear beam load cells have a low profile design that can be mounted directly to the weighing platform. They are made specifically for light to medium weighing applications like floor scales. Their design makes them highly resistant to eccentric loads. Stainless steel construction offers strength and the ultimate in protection for caustic or corrosive environments. These load cells are potted with a proprietary sealant that offers water resistance, while remaining flexible over the life of the load cell. This special compound protects the cell's strain gauges.

MECHANICAL DATA

Rated Capacity, (R.C.) E_{max}	250 lb / 115 kg 550 lb / 250 kg 1,100 lb / 550 kg 2,750 lb / 1,250 kg
Minimum Dead Load	0 lb / 0 kg
Safe Load Limit	150% R.C.
Ultimate Load	300% R.C.
Deflection at R.C.	.025 in / 0.38 mm
Spring Element Material	17-4 PH
Net Weight	1.5 lb / 0.7 kg

CERTIFICATE DATA

Issuing Body	OIML
Certificate Number	R60/1991-DK-00.02
Accuracy Class	C3
Maximum Number of Load Cell Intervals, n_{max}	3,000
Humidity Symbol	CH
Minimum Load Cell Verification Interval V_{min}	0.023, 0.046, 0.09, and 0.23 kg

ELECTRICAL DATA

Rated Output	2 mV/V
Excitation Voltage, Recommended	10 VDC
Excitation Voltage, Maximum	15 VDC
Cable Length	
LFB-250M	67 in / 170 cm
LFB-500M	120 in / 304 cm
LFB-1000M	120 in / 304 cm
LFB-2500M	120 in / 304 cm
Terminal Resistance	
Excitation	375 - 414 ohms
Signal	350 ± 5 ohms
Zero Load Output	± 1% R.C.
Insulation Resistance	>5000 megohms at 50 VDC

ENVIRONMENTAL DATA

Temperature Compensation Range	-10° to +40°C
Operating Temperature Range	-20° to +60°C
Barometric Pressure Effect on Zero Load Output	<1 v (min)/1kPa

MADE IN USA

LFB

LOAD CELL

LFB Series

**Light to Medium Capacity
Shear Beam Load Cells**

Model LFB-250M

Capacity: 250 lb/115 kg

Model LFB-1000M

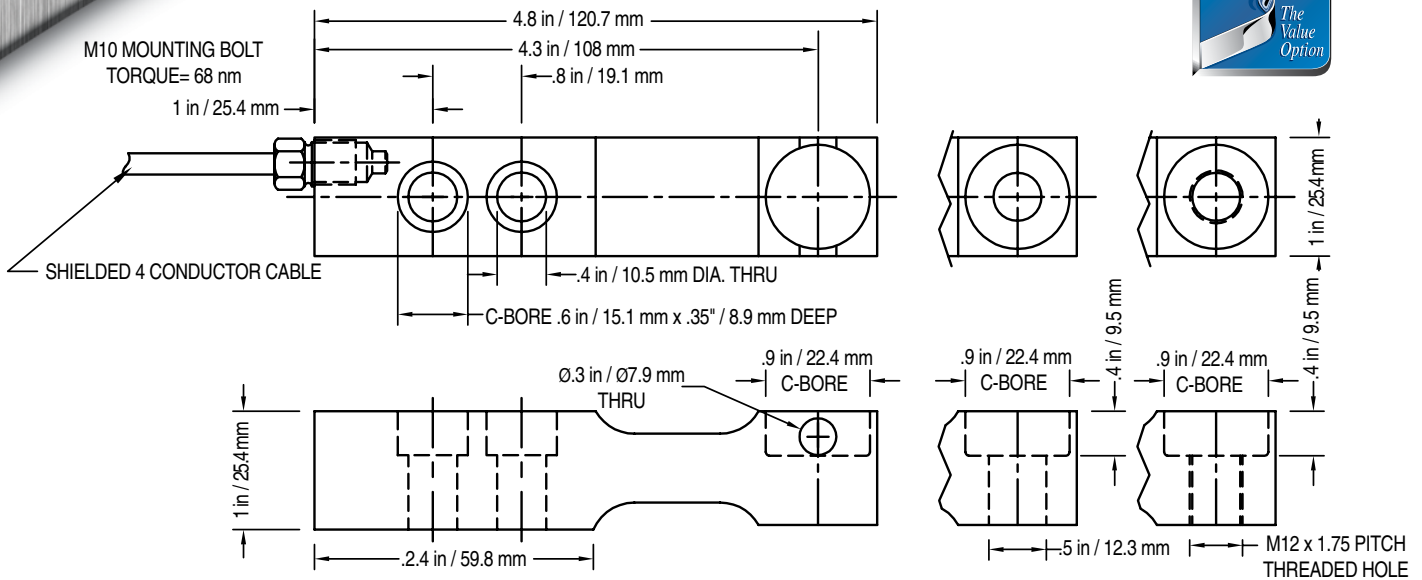
Capacity: 1,100 lb/550 kg

Model LFB-500M

Capacity: 550 lb/250 kg

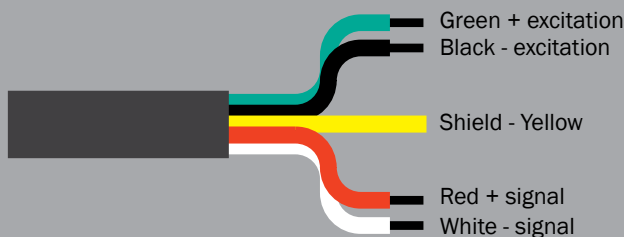
Model LFB-2500M

Capacity: 2,750 lb/1,250 kg



MODELS AVAILABLE:	LFB-250M	LFB-250HM	LFB-250HMT
	LFB-500M	LFB-500HM	LFB-500HMT
	LFB-1000M	LFB-1000HM	LFB-1000HMT
	LFB-2500M	LFB-2500HM	LFB-2500HMT

ELECTRICAL INFORMATION



State-of-the-Art Load Cell Manufacturing Facility ISO 9001 Quality Environment



CERTIFICATIONS



The LFB load cell meets all requirements of OIML R60 and has been issued OIML Certificate No. **R60/1991-DK-00.02**

VCAP CERTIFIED

Cardinal Scale has been formally audited and found to be fully compliant with the Verified Conformity Assessment Program (VCAP) administered by the National Type Evaluation Program (NTEP) of the National Conference on Weights and Measures (NCWM).

Cardinal Scale reserves the right to improve, enhance or modify features and specifications without prior notice. All registered trademarks are the property of their respective owners.

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