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interface

ADVANCED FORCE MEASUREMENT

MBI-2Kg Load Cell

Miniature Platform Load Cell

- 10x overload protection
- Eccentric load compensated*
- High accuracy
- Sealed construction
- Compact design
- Compact size
- Design patent pending

The MBI02kg has been designed specifically for medical and similar OEM applications where compact size and ruggedness are particularly important. A small platform or cup can be fitted to the upper side and the moment compensation (on option -255) will accurate weighing regardless of the sample position, providing continuous, reliable measurements in normal daily use. Mechanical stops machined during production allow to withstand overloads up to 10x capacity, helping prevent accidental damage. The overload mechanism does not require maintenance or adjustment. Option -254 has less rigid moment compensation, being aimed at applications with suspended loads or where resistance to off axis loads is less important. The small physical size allows incorporation into enclosures with limited space and is ideal for portable equipment

Wiring coding:

Red Positive excitation Black Negative excitation

Green Positive signal White Negative signal



Specifications

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Capacity	2kgs
Rated output	1.6 mV/V ($\pm 10\%$)
Non-linearity	$< \pm 0.2\%$ FS
Hysteresis	$< 0.02\%$ FS
Creep, in 20 mins	$\pm 0.025\%$
Excitation (nominal)	10 (15) V
Repeatability	$< 0.01\%$ RO
Input Resistance	395 Ω (± 15)
Output Resistance	250 Ω (± 3.5)
Compensated Temp.	-21 to +77 °C
Operating Temp	-40 to +80 °C
Safe axial overload	1000% of Capacity
Deflection	0.28mm
Safe Mounting torque	12 in-lbs
Fatigue Rating (Tension)	50,000 cycles (min) @capacity
Dimensions	69.9 x 29.5 x 12.7mm

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