LORD SENSING
Stellar Technology

Request Quote

Series MIN822

Precision Miniature Compression Load Cell

MIN822

Shown Actual Size

Description

The Series MIN822 load cells are compact-sized for compression load applications requiring higher accuracy. Constructed of all welded stainless steel, these bonded foil strain gaged force sensors provide reliable performance for demanding applications. Each MIN822 force sensors has a machined load button that is an integral part of the sensing element. The MIN822 comes in a variety of mounting configurations. Additional features include shock and vibration protection. Typical applications include factory automation, industrial robotics, component testing, and force-over-are pressure measurements. These load cells are often used with our LVDT's for force versus displacement measurements. Each unit is shipped with a 5 point calibration record traceable to NIST as standard.
(See MIN802 for 0.25% model)

Standard Features

- 0.15% Accuracy
- Small Size
- Compression
- 2 mV/V
- All Welded Stainless Steel
- -65°F to 250°F Standard Operating Temperature
- Shock and Vibration Resistant
- 5 Point Calibration Record Traceable to NIST

Optional Features

- Custom Mounting Configurations
- Metric Versions
- Special Calibration
- Customer Specified Cable Lengths
- -65°F to +400°F Operating Temperature

Performance

Standard Ranges
100, 250, 500, 1000 lbs.

Output
2mV/V nominal.

Accuracy
0.15% BFSL.

Temperature Effect on Zero
0.003% FSO/°F.

Temperature Effect on Span
0.003% Reading/°F.

Zero Balance
1% FSO.

Environmental Characteristics

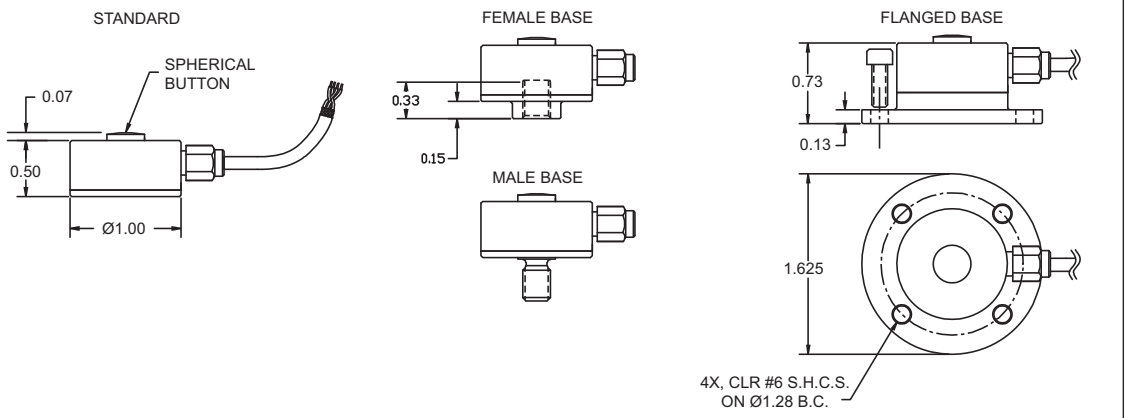
Operating Temperature Range
-65°F to 250°F.
(-65°F to 400°F optional.)

Compensated Temperature Range
70°F to 170°F.
(-65°F to 400°F optional.)

Series MIN822
Specifications

Baseline Configuration Specs Represented.
Modifications Encouraged - See Below
Custom Designs Available

Dimensions (inches)



Mechanical Characteristics

Static Overload Without Damage
150% FSO.

Calibration
Standard calibration is 5 pts (0, 50%, 100%, 50%, 0) compression.

Material
Welded stainless steel.

Electrical Characteristics

Bridge Resistance
350 Ohms nominal.

Excitation
10 Vdc or Vac.

Insulation Resistance
Greater than 5000 megaohms at 50 Vdc.

Electrical Termination
10', 4 Conductor Shielded Teflon Cable.

Electrical Characteristics

Connector Pins (Standard)

RED	+EXE	GREEN	- SIG
BLACK	- EXE	WHITE	+SIG

Customer specified wiring codes are available.

CE

Modifications and Warranty

MODIFICATIONS: We realize transducer applications vary greatly and as such our designs are flexible. Choice of pressure port, electrical termination, material compatibility and performance characteristics are a few of the many options available. Specifications on this datasheet represent the standard configuration only. Product and company names listed are trademarks of their respective companies. Specifications subject to change without notice.
WARRANTY: Stellar Technology warrants that its product shall be free from defective workmanship and/or material for a twelve month period from the date of shipment, provided that Stellar Technology's obligation hereunder shall be limited to correcting any defective material FOB our factory. No allowance will be made for any expenses incurred for correcting any defective workmanship and/or material without written consent by Stellar Technology. This warranty is in lieu of all other warranties expressed or implied.

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ISO 9001/AS9100

Due to the nature of technology, changes are inevitable. For latest technical specifications, see our website.

Datasheet P/N: 227201E DCN 9338

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