



Series MIN811

Precision Miniature Tension and Compression Load Cell



Select ranges in stock.

Description

The Series MIN811 load cells are both high accuracy and compact-sized for both tension and compression applications. Constructed of welded stainless steel, these miniature load cells are designed to minimize the effects of off-axis loading. The MIN811 force sensors come in a variety of mounting configurations with active male threads as standard. Additional features include shock and vibration protection. MIN811 load cells are ideal for pharmaceutical, medical, robotic, automation, materials testing and component testing applications. Each unit is shipped with repeatability data and a 5 point calibration record traceable to NIST as standard.



Shown Actual Size

Standard Features

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

Optional Features

- Female Thread or Custom Interfaces
- Metric Versions
- Special Calibration
- Customer Specified Cable Lengths
- Special Full Scale Ranges
- -65°F to +400°F Operating Temperature

Performance

Standard Ranges

100, 250, 500, 1000 lbs.

Output

2mV/V nominal.

Accuracy

0.15% FSO 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.

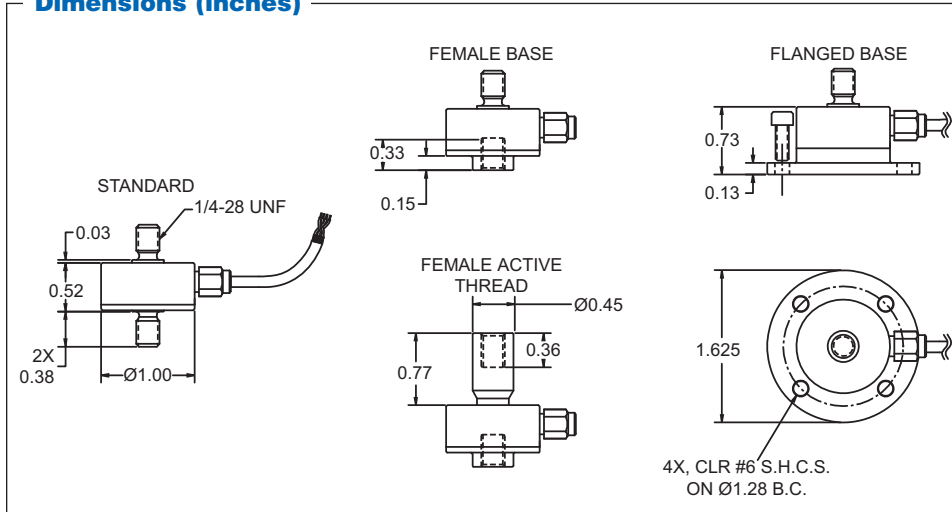
(-65°F to 400°F optional.)

Series MIN811

Specifications

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

Dimensions (inches)



Mechanical Characteristics

Static Overload Without Damage

150% Range.

Standard Calibration

Tension only:

5 points (0, 50%, 100%, 50%, 0 Range).

Optional Calibrations

• Compression only:

5 points (No charge option)

• Tension and Compression:

5 points in each direction

• Special multipoint calibration

(customer specified):

in tension or compression or both tension and compression.

Material

Welded stainless steel.

Electrical Characteristics

Bridge Resistance

350 Ohms nominal.

Excitation

10 Vdc or Vac.

Insulation Resistance

Greater than 5000 megohms 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.



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.



ISO 9001/AS9100

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

237 Commerce Drive • Amherst, NY 14228 • USA

Tel: 716.250.1900 • Fax: 716.250.1909

Web: stellartech.com • Email: info@stellartech.com

Copyright © 2015 STI • All Rights Reserved
Datasheet P/N: 227200G DCN 13002