

## MIN800 Series

### Miniature Tension and Compression Load Cells

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#### Description

MIN800 Series load cells are 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. MIN800 Series force sensors come in a variety of mounting configurations with male threads as standard. Features include shock and vibration protection.

MIN800 Series load cells are ideal for applications in factory automation, robotics, cable and fabric testing, and pneumatic and hydraulic controls. Each unit is shipped with repeatability data and a 5 point calibration record traceable to NIST as standard.

*See MIN811 Series load cells for 0.15% model.*

#### Standard Features

- 0.25% FSO Accuracy
- Small Size
- Tension and Compression Loading
- 2 mV/V Output
- Welded Stainless Steel
- -65°F to 250°F Standard Operating Temperature
- Shock and Vibration Resistant
- 5 Point Calibration Record Traceable to NIST



Select ranges in stock



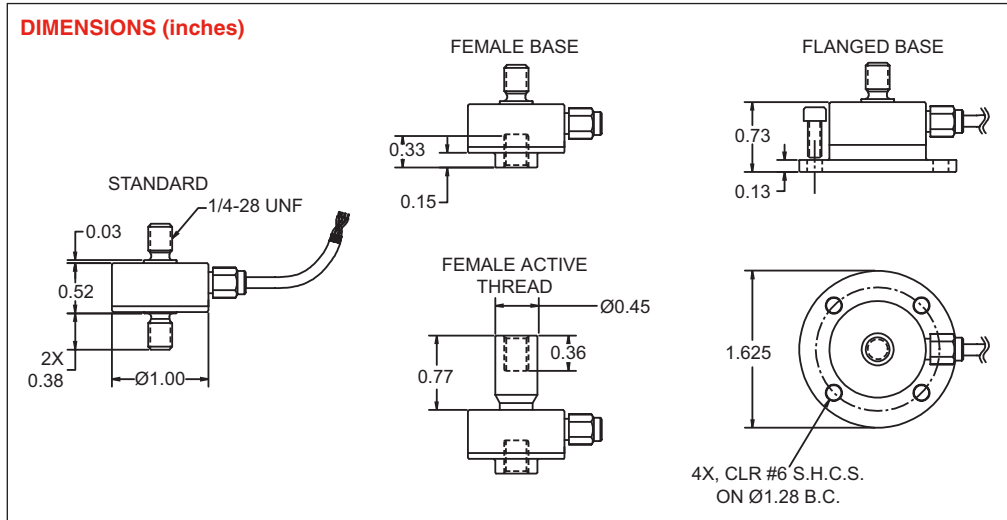
Shown actual size

#### Optional Features

- Multiple Mounting Configurations
- Metric Versions
- Special Calibration
- Customer Specified Cable Lengths
- Female Threads, Custom Interface

# LORD DATA SHEET

## DIMENSIONS (inches)



## PERFORMANCE

### Standard Ranges

100, 250, 500, 1000 lbs

### Output

2 mV/V nominal

### Accuracy

0.25% FSO BFSL

### Temperature Effect on Zero

0.005% FSO/°F

### Temperature Effect on Span

0.005% Reading/°F

### Zero Balance

3% FSO

## MECHANICAL CHARACTERISTICS

### Standard Calibration

#### Tension only:

5 points (0, 50%, 100%, 50%, 0 of FSO)

#### Optional Calibrations

##### Compression only:

5 points (No charge option)

##### Tension and Compression:

5 points in each direction

##### Special Multipoint Calibration (customer specified):

Tension or Compression or Both Tension and Compression

### Static Overload Without Damage

150% FSO

### Material

Welded Stainless Steel

### Threads

1/4-28 UNF Male (Both Ends)

## ELECTRICAL CHARACTERISTICS

### Bridge Resistance

350 ohms nominal

### Excitation

10 Vdc or Vac

### Insulation Resistance

> 5000 megohms at 50 Vdc

### Electrical Termination

10', 4 Conductor Shielded Teflon Cable

### Wiring

Red (+) Excitation

Black (-) Excitation

Green (-) Signal

White (+) Signal

Customer specified wiring codes available.

## ENVIRONMENTAL CHARACTERISTICS

### Compensated Temperature Range

70°F to 170°F (-65°F to +400°F optional)

### Operating Temperature Range

-65°F to +250°F (-65°F to +400°F optional)

Values stated in this technical data sheet represent typical values as not all tests are run on each lot of material produced. For formalized product specifications for specific product end uses, contact the Customer Support Center.

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