

# LZBS 1010 - BOLT FORCE SENSOR

The LZBS 1010 Bolt Force Sensor is essentially a hollow compression load cell designed to be used in fastener testing where the compression loading the sensor is induced by the tensile loading of the fastener for which it was designed. The LZBS 1010 consists of three piece assembly: both a large and small hardened and ground washer and a donut shaped load cell. The flat washers must be used to prevent damage to the load cell force sensor.

- **LOW PROFILE**
- **STAINLESS STEEL**
- **±3.5% ACCURACY**

## SPECIFICATIONS

|                    |                       |
|--------------------|-----------------------|
| LOAD RANGES:       | 2000 lb to 100,000 lb |
| ACCURACY:          | ±3.5% F.S.            |
| MATERIAL:          | Stainless Steel       |
| TEMPERATURE RANGE: | 70° to 170° F         |
| OUTPUT:            | 2 mv/v                |
| BRIDGE RESISTANCE: | 120 ohm               |
| EXCITATION:        | 10 Vdc                |
| SAFE OVERLOAD:     | 130 % Over Capacity   |
| CABLE:             | 4 ft                  |



## AVAILABLE RANGES

|               | Bolt Size | Sensor<br>A" | B"    | C"   | Washer<br>D" E" | W"   |
|---------------|-----------|--------------|-------|------|-----------------|------|
| 2000; 5000 lb | 1/4       | 1.000        | .266  | .187 | .750 1.000      | .062 |
| 10,000 lb     | 3/8       | .750         | .396  | .187 | .656 .750       | .062 |
| 30,000 lb     | 1/2       | 1.000        | .517  | .250 | .844 1.000      | .078 |
| 50,000 lb     | 5/8       | 1.125        | .644  | .250 | .968 1.125      | .078 |
| 65,000 lb     | 3/4       | 1.500        | .770  | .375 | 1.218 1.500     | .093 |
| 100,000 lb    | 1-1/2     | 2.625        | 1.533 | .875 | 2.500 2.625     | .125 |

