

## 10144

### ROD END FORCE SENSOR

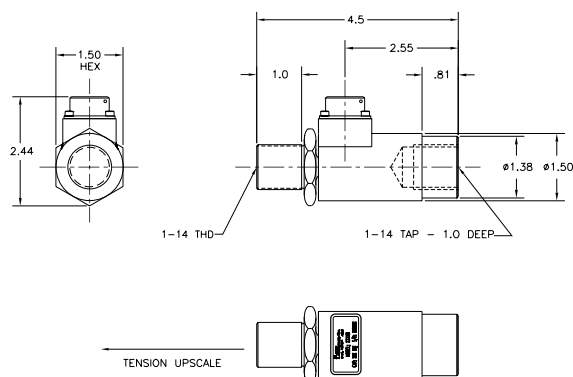
This sensor is capable of measuring forces in both tension and compression. The load cell is machined from 4140 steel, and is supplied with a metal housing, providing mechanical protection for the sensing section. A side mounted industrial connector is supplied for easy cable connection. This cell is designed for direct attachment to hydraulic actuators.

#### SPECIFICATIONS

Capacities..... 1K - 20K lb. (See chart)  
 Overload capacity..... 150% of F.S.  
 Output at F.S..... 2.0 mV/V nominal  
 Non-linearity..... 0.10% of F.S.  
 Hysteresis..... 0.10% of F.S.  
 Zero balance..... 1% of F.S.  
 Compensated temperature..... 70 to 170°F  
 Useable temperature..... -65 to +250°F  
 Temperature effect on zero..... 0.002% of F.S./°F  
 Temperature effect on span.. 0.002% of Rdg./°F  
 Bridge resistance..... 350 Ohms  
 Excitation voltage, maximum..... 20 Vdc  
 Material ..... Alloy steel

| MODEL     | CAPACITY |
|-----------|----------|
|           | LB       |
| 10144-013 | 1000     |
| 10144-053 | 5000     |
| 10144-014 | 10000    |
| 10144-024 | 20000    |

#### DIMENSIONS



MODEL 10144

DWG



ALSO:

## 10254

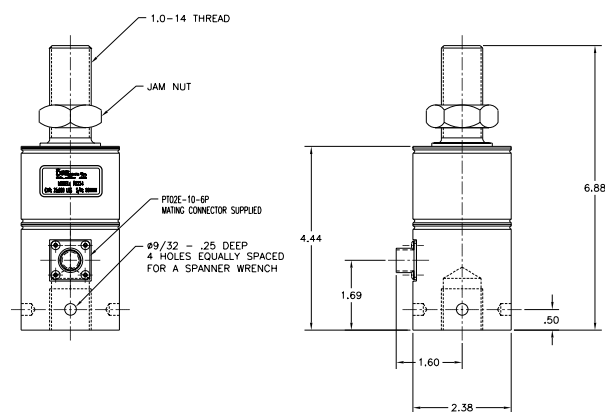
### FATIGUE RESISTANT THREADED ROD SENSOR

This sensor incorporates a welded diaphragm system that isolates the sensor from extraneous forces and bending moments. The 10254 may be used in tension or compression and is fatigue resistant.

#### SPECIFICATIONS

Capacity ..... F.S. 1,000 - 25,000 lb.  
 Output F.S., nominal ..... 2.0 mV/V  
 Bridge resistance ..... 350 Ohms  
 Other specifications are same as model 10144.

#### DIMENSIONS



MODEL 10254

DWG