# **Multi-Component Sensors**

# 70025 Series

### TRI-AXIAL FORCE SENSOR

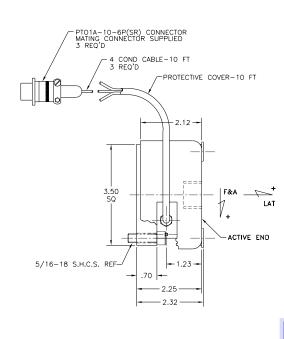
This three component force sensor measures force in the Fx, Fy, and Fz axis. Each axis has a full scale capacity of +/-5,000 lbs. and produces a 2.0 mV/V full scale nominal output. An integral cable assembly exits the side of the sensor and terminates in three, six pin connectors. This sensor is protected from overload forces up to +/- 7,500 lbs. for each axis. An extraneous load isolation feature was also incorporated into the design. This feature allows bending moments to be applied to the sensor, yet isolates them from the measuring axes. Automotive engine mounts were replaced with Model 70025, and real time force data was recorded as the vehicle was road tested. The existing package size is approximately 3.75 inches square and 2.5 inches high. This load cell can be changed for different applications. Other capacities and package sizes can be accommodated. Contact our application engineers for details.

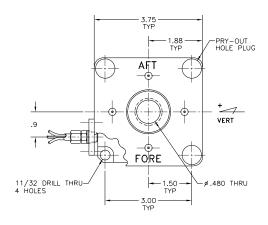


#### **SPECIFICATIONS**

Capacity	5000 lbs. each axis
Overload capacity	150% of F.S
Output at full scale load	. 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	350/700 Ohms
Excitation voltage, maximum	20 Vdc
Material	Alloy steel

## DIMENSIONS (INCHES)





DWG



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