Systems & Electronics Inc.

Angular Servo Accelerometer

Developed for the Structural Data Recording Set, AN/ASH-37

This Servo Accelerometer is a closed-loop, force-balance transducer with much greater accuracy and stability than that of an open-loop type accelerometer.

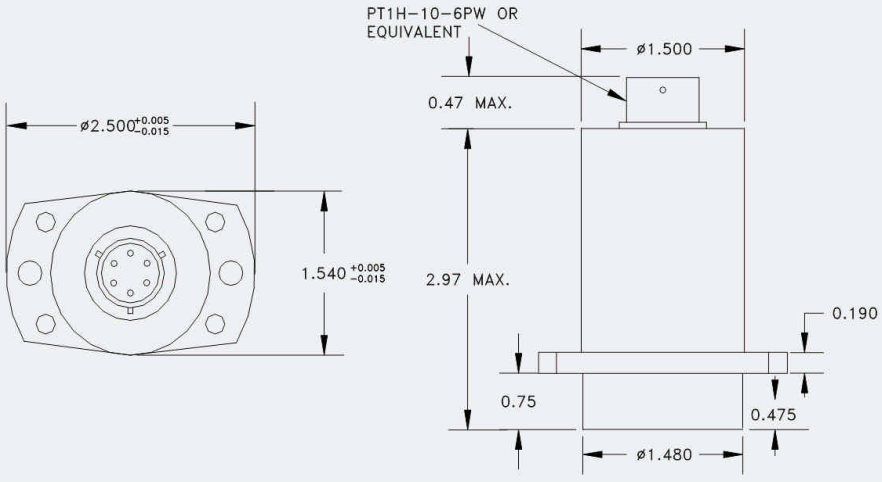
Features a rugged acceleration sensor with direct current output signal proportional to acceleration.

PRODUCT FEATURES:

- **Small in Size**
- **Range: ± 30 RAD/SEC^2**
- **Measurement of Aircraft Angular Accelerations**

SPECIFICATIONS:

Weight:	**4.7 oz. nominal**
Range:	**±30 rad/sec^2**
Output Current:	**-1.6 mA to +1.6 mA**
Bias (Zero Output):	**±0.1% F.R.**
Bias TC:	**13 uA/°C**
Composite Error:	**0.2% F.R.**
Scale Factor TC:	**0.05% /°C maximum**
Sensitivity Axis Alignment:	**0.5°**
Natural Frequency:	**10 Hz to 20 Hz**
Damping:	**0.7 ± 0.2**
Power Required:	**±15 VDC: less than 20 mA**
Operating Temp.:	**-40°C to +71°C**
Storage Temp.:	**-40°C to +85°C**
Shock:	**500G, 5 mS**
Vibration:	**15G RMS**
Accuracy:	**4% of F.R. over environmental conditions**



190 Gordon Street
Elk Grove Village, IL 60007
847.228.0985 t
847.228.1164 f
www.sei-sdrs .com

Version 6/11