



H906 Accelerometer

Doughnut Style IEPE Accelerometer

Designed by Aircraft Engineers for Aircraft Engineers

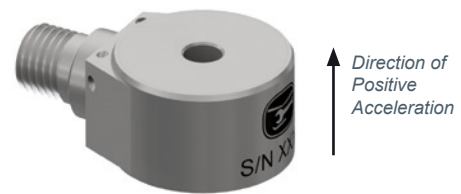
Description

The H906 Accelerometer has been custom engineered for the collection of rotor balance & vibration data in the range of 1.2Hz to 10kHz. Its small size and weight make it the perfect accompaniment to Helitune's HT-VMU HUMS data collection unit.

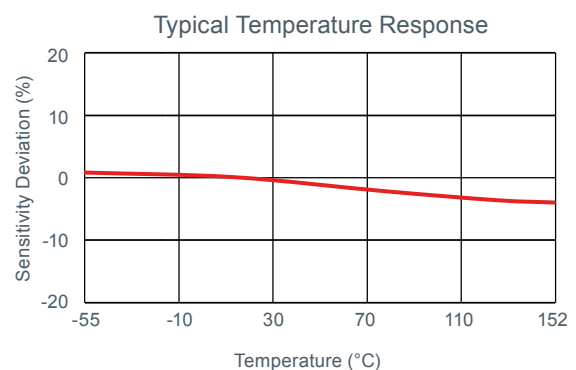
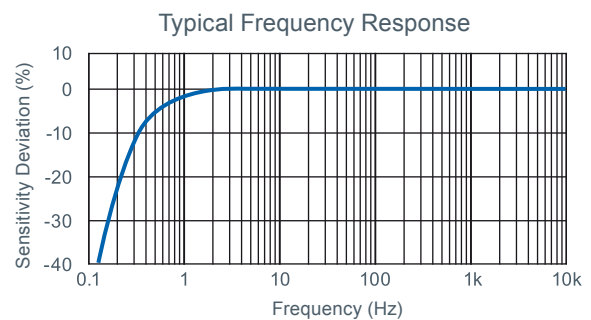
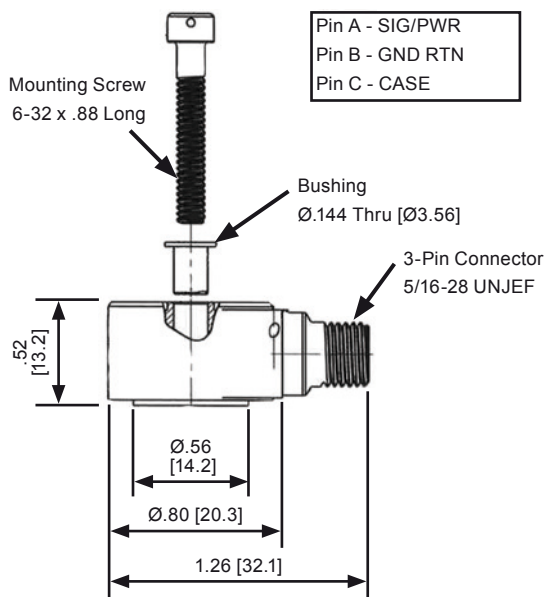
Constructed from a corrosion-resistant stainless steel, it provides a hermetically-sealed solution that offers continuous performance at operating temperatures of up to 150°C.

- High Frequency Performance
- Excellent Linearity
- Electrically Isolated
- Safety Locking Wire Holes

Note: Accelerometers should always be correctly mounted using purpose-designed mounting solutions. Failure to do this could result in inconsistencies with measured values.



Actual Size



Performance

Sensitivity, $\pm 5\%$, [1]	10 mV/g
Acceleration Range	$\pm 500g$ peak (F.S. for ± 5 Volts Output)
Amplitude Non-Linearity	$\pm 1\%$
Frequency Response	$\pm 5\%$ 1.2 - 10,000 Hz
Resonance Frequency	>35 kHz
Transverse Sensitivity MAX	$\pm 5\%$
Temperature Response	See graph
Strain Sensitivity	0.04 g/ μ strain

Electrical

Supply Current Range [2]	2-20mA
Compliance Voltage	+18V to +30V DC
Output Impedance, Typ	150 Ω
Bias Output Voltage	+7.5V to +9.5V DC
Electrical Isolation	Ground (Pin B) to case (Pin C) 10 G Ω , min

Environmental

Temperature Range	-55°C to 150°C
Vibration MAX	$\pm 5000g$ peak
Shock MAX	$\pm 10,000g$ peak
Sealing	Hermetic

Physical

Weight	28.1 grams
Case Material	304L Stainless steel
Mounting	6-32 Mounting Screw or Adapter Stud
Output Connector	3-Pin 5/16-28 UNJEF
Mating Connector	Glenair P/N 257-132-3S

[1] Measure at 80Hz @ 1g pk

[2] Do not apply power to this system without current limiting, 20 mA MAX. To do so will damage the IC charge amplifier.

To ensure the correct operation of accelerometers with Helitune equipment, it is necessary for annual calibration to be carried out by A Helitune Authorised Test Centre.



Helitune's Quality Management System is certified to BS EN ISO9001:2008 and AS9100

This document is not contractual. Helitune maintain a policy of continuous product development and improvement. This specification may change without notice.

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