Injection molded integral cable accelerometer series

786F-IM



| Sensitivity, ±5%, 25°C | 100 mV/g |
|---|---|
| Acceleration range | 80 g peak |
| Amplitude nonlinearity | 1% |
| Frequency response, nominal: ±10° ±3 d | • |
| Resonance frequency | 30 kHz |
| Transverse sensitivity, max | 5% of axial |
| Temperature response: -50° +120° | |
| Power requirement: Voltage source Current regulating diode | 18 - 30 VDC 2 - 10 mA |
| Electrical noise, equiv. g: Broadband 2.5 Hz to 25 kH Spectral 10 H 100 H 1,000 H | l z 10 μg/√Hz l z 5 μg/√Hz |
| Output impedance, max | 100 Ω |
| Bias output voltage | 12 VDC |
| Grounding | case isolated, internally shielded |
| Temperature range | –50° to +120°C |
| Vibration limit | 500 g peak |
| Shock limit, min | 5,000 g peak |
| Electromagnetic sensitivity, equiv. g, n | nax 70 μg/gauss |
| Sensor sealing | hermetic |
| Integral cable sealing | IP67 |
| Base strain sensitivity, max | 0.0002 g/µstrain |
| Sensing element design | PZT ceramic / shear |
| Weight | 90 grams (excluding cable) |
| Case material | 316L stainless steel |
| Marratina | 1/4-28 UNF tapped hole |
| Mounting | 1/4-20 ONF tapped Hole |

Accessories supplied: SF6 mounting stud; calibration data (level 2)

TABLE 1: 786F-IM-X CABLE SELECTION GUIDE

| -X (cable option) | |
|---|--|
| -J9T2A = twisted, shielded pair, Yellow Teflon jacket, 200°C, 16ft standard, blunt cut | |
| -J10 = twisted, shielded pair, grey Enviroprene jacket, 125°C, 16ft standard, blunt cut | |

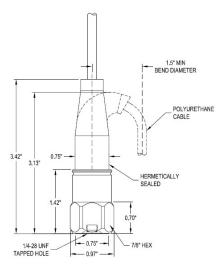




Key features

- Affordable injection molded integral cable
- Hermetically sealed sensor, IP68 molded cable
- · Manufactured in ISO 9001 facility





| Connections | |
|--------------|-----------------|
| Function | Cable conductor |
| power/signal | red |
| common | black |
| N/C | shield |



Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.