

High frequency integral cable accelerometer

712F-M4



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SPECIFICATIONS

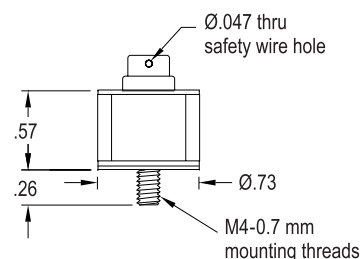
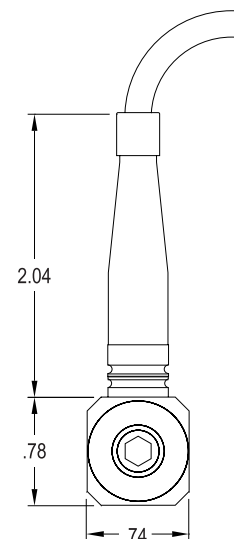
Sensitivity, $\pm 10\%$, 25°C	100 mV/g
Acceleration range	60 g peak
Amplitude nonlinearity	1%
Frequency response:	
$\pm 5\%$	9.0 - 15,000 Hz
$\pm 10\%$	6.0 - 20,000 Hz
± 3 dB	3.0 - 25,000 Hz
Resonance frequency, mounted	>45 kHz
Transverse sensitivity, max	3% of axial
Temperature response:	
-50°C	-10%
+120°C	+10%
Power requirement:	
Voltage source	18 - 30 VDC
Current regulating diode	2 - 10 mA
Electrical noise, equiv. g, nominal:	
Broadband 2.5 Hz to 25 kHz	1,000 μ g
Spectral 10 Hz	25 μ g/ $\sqrt{\text{Hz}}$
100 Hz	10 μ g/ $\sqrt{\text{Hz}}$
1,000 Hz	8 μ g/ $\sqrt{\text{Hz}}$
Output impedance, max	100 Ω
Bias output voltage, nominal	12 VDC
Grounding	case isolated, internally shielded
Temperature range	-50° to +120°C
Vibration limit	$\pm 1,000$ g
Shock limit, max	5,000 g peak
Sealing	hermetic
Base strain sensitivity, max	0.03 g/ μ strain
Sensing element design	PZT ceramic / shear
Weight	35 grams
Case material	316L stainless steel
Mounting	M4 captive screw with 0.047" diameter safety wire hole
Integral cabling	J9T2AK, 16 ft., blunt cut

Accessories supplied: M4 captive screw; calibration data (level 2)



Key features

- Compact size, lightweight
- High frequency detection (25 kHz)
- 8-32 mounting option available
- Manufactured in ISO 9001 facility



Connections	
Function	Cable conductor color
power/signal	white
common	black
case	shield



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

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