



**712F**  
High frequency integral cable accelerometer

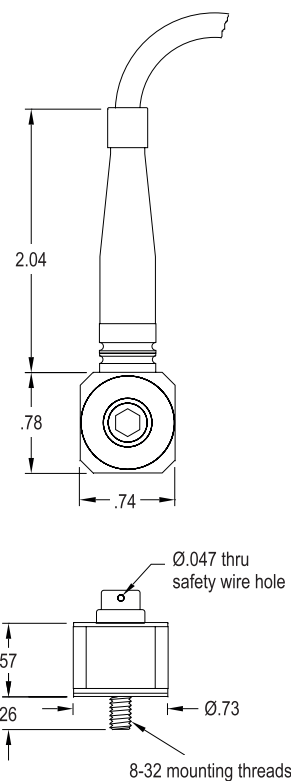
**SPECIFICATIONS**

<b>Sensitivity, ± 10%, 25°C</b>	100 mV/g	
<b>Acceleration range</b>	60 g peak	
<b>Amplitude nonlinearity</b>	1%	
<b>Frequency response:</b>	<b>± 5%</b>	9.0 - 15,000 Hz
	<b>± 10%</b>	6.0 - 20,000 Hz
	<b>± 3 dB</b>	3.0 - 25,000 Hz
<b>Resonance frequency, mounted</b>	>45 kHz	
<b>Transverse sensitivity, max</b>	3% of axial	
<b>Temperature response:</b>	<b>-50°C</b>	-10%
	<b>+120°C</b>	+10%
<b>Power requirement:</b>		
<b>Voltage source</b>	18 - 30 VDC	
<b>Current regulating diode</b>	2 - 10 mA	
<b>Electrical noise, equiv. g, nominal:</b>		
<b>Broadband</b>	<b>2.5 Hz to 25 kHz</b>	1,000 µg
<b>Spectral</b>	<b>10 Hz</b>	25 µg/√Hz
	<b>100 Hz</b>	10 µg/√Hz
	<b>1,000 Hz</b>	8 µg/√Hz
<b>Output impedance, max</b>	100 Ω	
<b>Bias output voltage, nominal</b>	12 VDC	
<b>Grounding</b>	case isolated, internally shielded	
<b>Temperature range</b>	-50° to +120°C	
<b>Vibration limit</b>	± 1,000 g	
<b>Shock limit, max</b>	5,000 g peak	
<b>Sealing</b>	hermetic	
<b>Base strain sensitivity, max</b>	0.03 g/µstrain	
<b>Sensing element design</b>	PZT ceramic / shear	
<b>Weight</b>	35 grams	
<b>Case material</b>	316L stainless steel	
<b>Mounting</b>	8-32 captive screw with 0.047" diameter safety wire hole	
<b>Integral cabling</b>	J9T2AK, 16 ft., blunt cut	
<b>Accessories supplied:</b> 8-32 captive screw; calibration data (level 2)		



**Key features**

- Compact size, lightweight
- High frequency detection (25 kHz)
- Available with M4 mounting thread
- 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.