

# Integral cable accelerometer

## 786F

### SPECIFICATIONS

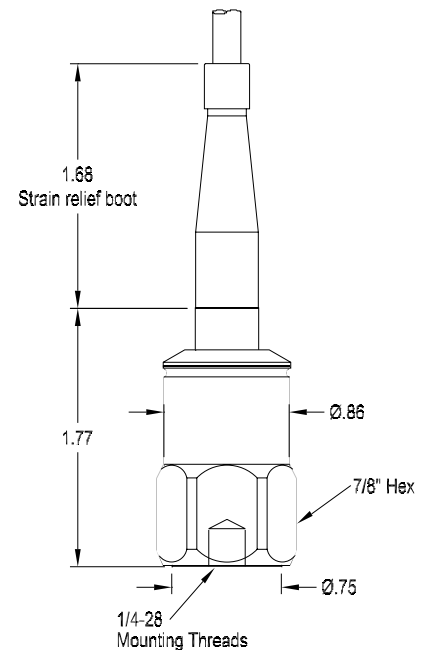
<b>Sensitivity, <math>\pm 5\%</math>, 25°C</b>		100 mV/g
<b>Acceleration range</b>		80 g peak
<b>Amplitude nonlinearity</b>		1%
<b>Frequency response, nominal:</b>		1 - 8,000 Hz
	<b><math>\pm 10\%</math></b>	0.5 - 13,000 Hz
	<b><math>\pm 3</math> dB</b>	
<b>Resonance frequency</b>		30 kHz
<b>Transverse sensitivity, max</b>		5% of axial
<b>Temperature response:</b>		-5%
	<b>-50°C</b>	+5%
	<b>+120°C</b>	
<b>Power requirement:</b>		
<b>Voltage source</b>		18 - 30 VDC
<b>Current regulating diode</b>		2 - 10 mA
<b>Electrical noise, equiv. g:</b>		
<b>Broadband</b>	<b>2.5 Hz to 25 kHz</b>	700 $\mu$ g
<b>Spectral</b>	<b>10 Hz</b>	10 $\mu$ g/ $\sqrt$ Hz
	<b>100 Hz</b>	5 $\mu$ g/ $\sqrt$ Hz
	<b>1,000 Hz</b>	5 $\mu$ g/ $\sqrt$ Hz
<b>Output impedance, max</b>		100 $\Omega$
<b>Bias output voltage</b>		12 VDC
<b>Grounding</b>		case isolated, internally shielded
<b>Temperature range</b>		-50° to +120°C
<b>Vibration limit</b>		500 g peak
<b>Shock limit, min</b>		5,000 g peak
<b>Electromagnetic sensitivity, equiv. g, max</b>		70 $\mu$ g/gauss
<b>Sealing</b>		hermetic
<b>Base strain sensitivity, max</b>		0.0002 g/ $\mu$ strain
<b>Hydrostatic pressure</b>		100 psi
<b>Sensing element design</b>		PZT ceramic / shear
<b>Weight</b>		90 grams (excluding cable)
<b>Case material</b>		316L stainless steel
<b>Mounting</b>		1/4-28 UNF tapped hole
<b>Integral cabling</b>		J9T2A, 16 ft., blunt cut

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



### Key features

- Certified versions available for use in hazardous areas
- Usable in submerged applications up to 30 ft.
- Manufactured in ISO 9001 facility



Connections	
Function	Cable conductor
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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