

# Integral cable accelerometer

## 786F

### SPECIFICATIONS

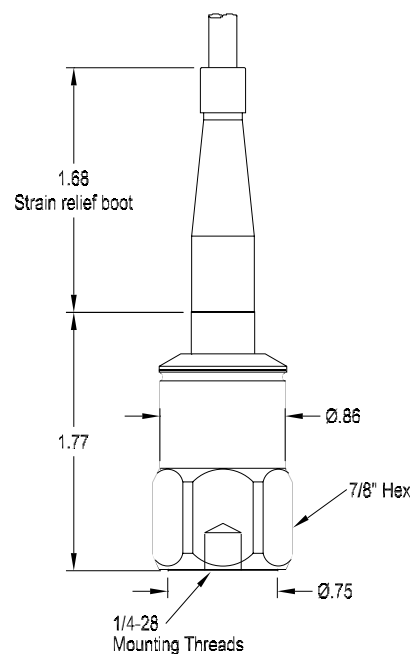
Sensitivity, $\pm 5\%$ , 25°C		100 mV/g
Acceleration range		80 g peak
Amplitude nonlinearity		1%
Frequency response, nominal:	$\pm 10\%$	1 - 8,000 Hz
	$\pm 3$ dB	0.5 - 13,000 Hz
Resonance frequency		30 kHz
Transverse sensitivity, max		5% of axial
Temperature response:	-50°C	-5%
	+120°C	+5%
Power requirement: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