



787F

General purpose, integral cable accelerometer

**ALTHEN**  
SENSORS & CONTROLS



787F

General purpose, integral cable accelerometer

### SPECIFICATIONS

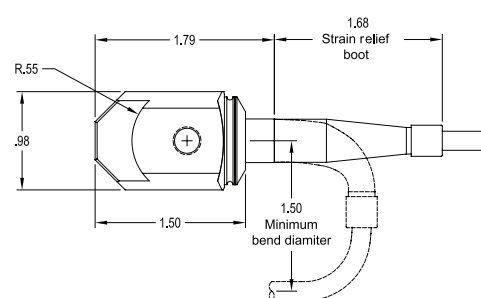
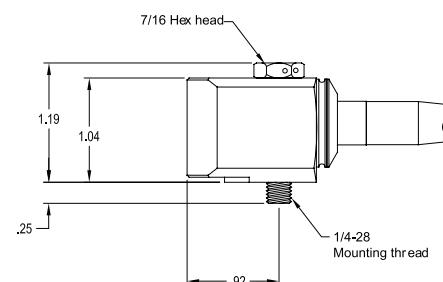
<b>Sensitivity, ±5%, 25°C</b>		100 mV/g
<b>Acceleration range</b>		80 g peak
<b>Amplitude nonlinearity</b>		1%
<b>Frequency response:</b>	<b>±10%</b>	1 - 5,000 Hz
	<b>±3 dB</b>	0.5 - 10,000 Hz
<b>Resonance frequency</b>		22 kHz
<b>Transverse sensitivity, max</b>		5% of axial
<b>Temperature response:</b>	<b>-50°C</b>	-5%
	<b>+120°C</b>	+5%
<b>Power requirement:</b>		
Voltage source		18 - 30 VDC
Current regulating diode		2 - 10 mA
<b>Electrical noise, equiv. g, nominal:</b>		
Broadband	2.5 Hz to 25 kHz	700 µg
	10 Hz	10 µg/√Hz
Spectral	100 Hz	5 µg/√Hz
	1,000 Hz	5 µg/√Hz
<b>Output impedance, max</b>		100 Ω
<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
<b>Shock limit, min</b>		5,000 g
<b>Electromagnetic sensitivity, equiv. g, max</b>		70 µg/gauss
<b>Sealing</b>		hermetic
<b>Base strain sensitivity, max</b>		0.002 g/µstrain
<b>Hydrostatic pressure</b>		100 psi
<b>Sensing element design</b>		PZT ceramic / shear
<b>Weight</b>		145 grams
<b>Case material</b>		316L stainless steel
<b>Mounting</b>		1/4-28 captive hex head screw w/ 0.046" diameter safety wire hole
<b>Integral cabling</b>		J9T2A, 16 ft., blunt cut

Accessories supplied: #80165-01 captive hex head screw; calibration data (level 2)



### Key features

- Usable in submerged applications up to 30 ft.
- 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.

The information provided herein is to the best of our knowledge true and accurate, it is provided for guidance only. All specifications are subject to change without prior notification.

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