

# Accelerometer with integral cable

## 780FM-2-J88C

### SPECIFICATIONS

<b>Sensitivity, <math>\pm 15\%</math>, 25°C</b>		100 mV/g
<b>Acceleration range</b>		80 g peak
<b>Amplitude nonlinearity</b>		1%
<b>Frequency response:</b>	$\pm 5\%$	1 - 6,000 Hz
	$\pm 10\%$	0.7 - 8,000 Hz
	$\pm 3$ dB	0.4 - 12,000 Hz
<b>Resonance frequency</b>		30 kHz
<b>Transverse sensitivity, max</b>		5% of axial
<b>Temperature response:</b>	-25°C	-10%
	+120°C	+10%
<b>Power requirement:</b>		
Voltage source		18 - 30 VDC
Current regulating diode		2 - 10 mA
<b>Electrical noise, equiv. g:</b>		
Broadband	2.5 Hz to 25 kHz	500 $\mu$ g
Spectral	10 Hz	7 $\mu$ g/ $\sqrt$ Hz
	100 Hz	4 $\mu$ g/ $\sqrt$ Hz
	1,000 Hz	2 $\mu$ 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>	<b>Sensor head</b>	-50° to +120°C
	<b>Cable</b>	-40° to +80°C
<b>Vibration limit</b>		500 g peak
<b>Shock limit</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>Sensing element design</b>		PZT, shear
<b>Weight</b>		150.5 grams
<b>Case material</b>		316L stainless steel
<b>Mounting</b>		1/4-28 UNF tapped hole
<b>Integral cable</b>		J88C

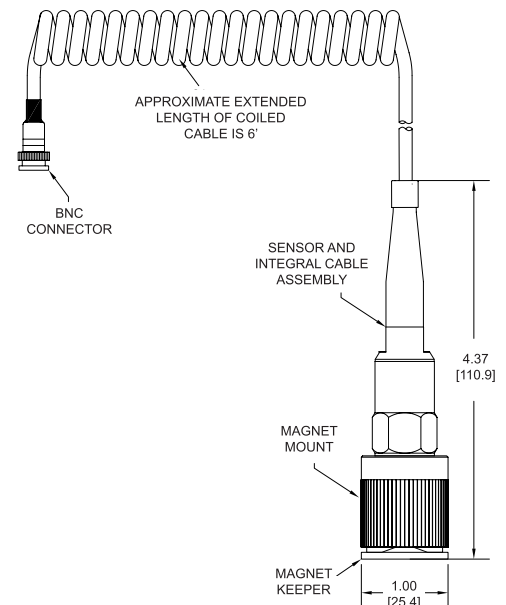
**Note:** Frequency response and spectral noise values are typical.

**Accessories supplied:** Two-pole 40 lbf magnet; calibration data (level 2)



### Key features

- Designed for walkaround monitoring programs
- Manufactured in ISO 9001 facility



Connections	
Function	Connector pin
power/signal	center pin
common	outer shell
shield	outer shell



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