General purpose dual output sensor

787T

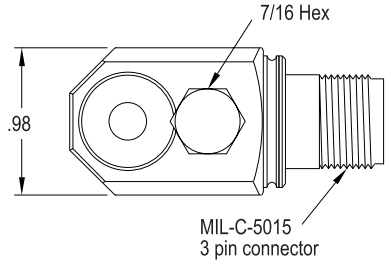
SPECIFICATIONS

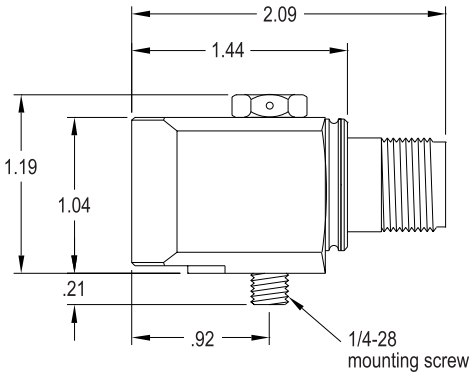
Sensitivity, ±5%, 25°C		100 mV/g
Acceleration range, VDC > 25 V		80 g peak
Amplitude nonlinearity		1%
Frequency response:	**±5%**	1.0 - 5,000 Hz
	±10%	0.7 - 10,000 Hz
	±3 dB	0.5 - 12,000 Hz
Resonance frequency		22 kHz
Transverse sensitivity, max		5% of axial
Temperature response:	**–25°C**	–10%
	+120°C	+10%
Temperature sensor:		
Output sensitivity		10 mV/°C
Measurement range		2° to 120°C
Power requirement:		
Voltage source[1]		18 - 30 VDC
Current regulating diode[1,2]		2 - 10 mA
Electrical noise, equiv. g, nominal:		
Broadband	**2.5 Hz to 25 kHz**	700 µg
Spectral	**10 Hz**	10 µg/√Hz
	100 Hz	5 µg/√Hz
	1,000 Hz	5 µg/√Hz
Output impedance, max		100 Ω
Bias output voltage, nominal		12 VDC
Grounding		case isolated, internally shielded
Temperature range		–50° to +120°C
Vibration limit		500 g peak
Shock limit		5,000 g peak
Electromagnetic sensitivity, equiv. g, max		70 µg/gauss
Sealing		hermetic
Base strain sensitivity, max		0.002 g/µstrain
Sensing element design		PZT ceramic / shear
Weight		145 grams
Case material		316L stainless steel
Mounting		1/4-28 captive screw w/ 0.046" diameter safety wire hole
Output connector		3 pin, MIL-C-5015 style
Mating connector		3 socket, MIL-C-5015 style
Recommended cabling		3 conductor, shielded

Notes: [1] To minimize the possibility of signal distortion during high vibration signals, 24 to 28 VDC powering is recommended. The higher level constant current source should be used when driving long cables.
[2] A maximum current of 6 mA is recommended for operating temperatures in excess of 100°C.
Accessories supplied: 1/4-28 captive screw; calibration data (level 2)

Key features

- Accelerometer with internal temperature sensor
- Available with M12 connector
- Manufactured in ISO 9001 facility





Connections	
Function	Connector pin
accelerometer power/signal	A
accelerometer and temp sensor common	B
temp sensor signal	C
ground / case	shell

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

Wilcoxon Sensing Technologies
An Amphenol Company

8435 Progress Drive
Frederick, MD 21701
USA

Tel: +1 (301) 330-8811
Fax: +1 (301) 330-8873
info@wilcoxon.com

buy.wilcoxon.com
www.wilcoxon.com

99101 Rev.B.2 08/19