

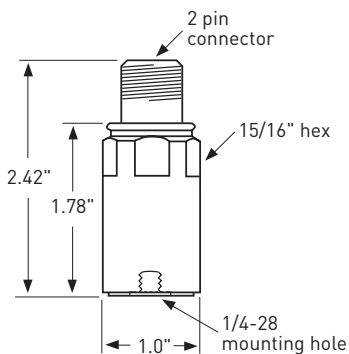


Model 793 Premium PiezoFET® accelerometer



Features

- Corrosion resistant
- Ground isolated
- Rugged design
- Hermetic seal
- ESD protection
- Reverse wiring protection
- Over - current protection



Dynamic

Sensitivity, ±5%, 25°C	100 mV/g
Acceleration range	80 g peak
Amplitude nonlinearity	1%
Frequency response:	
±5%	1.5 - 5,000 Hz
±10%	1.0 - 7,000 Hz
±3 dB	0.5 - 15,000 Hz
Resonance frequency	25 kHz
Transverse sensitivity, max.	5% of axial
Temperature response:	
-50°C	-10%
+120°C	+5%

Electrical

Power requirement:	voltage source	18 - 30 VDC
	current regulating diode	2 - 10 mA
Electrical noise, equiv. g:		
Broadband 2.5 Hz to 25 kHz		600 µg
Spectral 10 Hz		8 µg/√Hz
100 Hz		5 µg/√Hz
1000 Hz		5 µg/√Hz
Output impedance, max		100 Ω
Bias output voltage		12 VDC
Grounding		case isolated, internally shielded

Environmental

Temperature range	-50 to 120°C
Vibration limit	500 g peak
Shock limit	5,000 g
Sealing	hermetic
Base strain sensitivity	0.0005 g/µstrain

Physical

Sensing element design	PZT ceramic / compression
Weight	112 grams
Case material	316L stainless steel
Mounting	1/4 - 28 tapped hole
Output connector	2 pin, MIL-C-5015 style
Mating connector	R6 type
Recommended cable	J10 / J9T2A

Connector Pin	Function
Shell	ground
A	power/ signal
B	common

Accessories supplied: SF6 mounting stud (International customers specify mounting requirements); calibration data (level 3)

Options: Intrinsic safety certifications (consult factory)

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98169 Rev.F.3 12/07