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ALTHERIS SENSORS & CONTROLS

Model 793
Premium PiezoFET® accelerometer

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 impedence, max		100 Ω
Bias output voltage		12 VDC
Grounding		case isolated, internally shielded

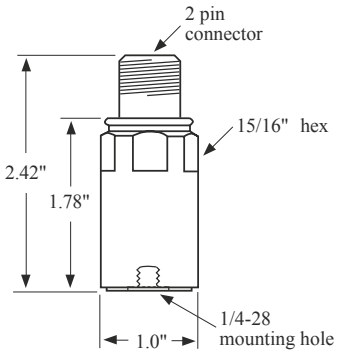
Environmental

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	¼ - 28 tapped hole
Output connector	2 pin, MIL-C-5015 style
Mating connector	R6 type
Recommended cable	J10 / J9T2A

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



Connector Pin	Function	Cable conductor color
Shell	ground	shield
A	power/ signal	white
B	common	black

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

Optional safety approvals