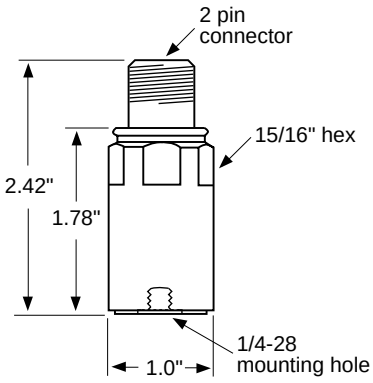
w i l c o x o n

Fire*FET*® Model 793-6

High Temperature, General Purpose Accelerometer

FEATURES:

- High temperature operation
- Rugged design
- Corrosion resistant
- Hermetically sealed
- Ground isolated
- ESD protection
- Miswiring protection
- 150°C operation



DYNAMIC

Sensitivity, ±10%, 25°C			100 mV/g
Acceleration Range			50 g peak
Amplitude Nonlinearity			1%
Frequency Response:			
±5%			4 - 5,000 Hz
±10%			3 - 7,000 Hz
±3dB			1 - 12,000 Hz
Resonance Frequency			20 kHz
Transverse Sensitivity, max			5% of axial
Temperature Response			–50°C –5%
			+0°C +2%
			+150°C –5%

ELECTRICAL

Power Requirement:	voltage source		18 - 30 VDC
	current regulating diode		2 - 4 mA
Electrical Noise, equiv. g, (µg/√Hz):			
Broadband	2.5 Hz to 25 kHz		0.3 mg
		25°C	*150°C*
Spectral at	10 Hz	10	30
	100 Hz	3	10
	1,000 Hz	2	6
Output Impedance, max.			100 Ω
Bias Output Voltage:			
at 25°C			12 VDC
at 150°C			11 VDC
Grounding			case isolated, internally shielded

ENVIRONMENTAL

Temperature Range (mounting surface)	–50 to 150°C
Vibration Limit	500 g peak
Shock Limit	2,500 g peak
Electromagnetic Sensitivity, equiv. g	15 µg/gauss
Sealing	Hermetic
Base Strain Sensitivity	0.0005 g/µstrain

PHYSICAL

Sensing Element Design	PZT ceramic / compression
Weight	135 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 cabling	J9T2A

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).

Due to continued research and development, Wilcoxon Research reserves the right to amend this specification without notice.

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