Low-frequency accelerometer

793L

SPECIFICATIONS

Sensitivity, ±5%, 25°C		500 mV/g
Acceleration range		10 g peak
Amplitude nonlinearity		1%
Frequency response:	**±5%**	0.6 - 700 Hz
	±10%	0.4 - 1,000 Hz
	±3 dB	0.2 - 2,300 Hz
Resonance frequency		15 kHz
Transverse sensitivity, max		5% of axial
Sensitivity variation with temperature:		
	–50°C	–10%
	+120°C	+10%
Power requirement:		
Voltage source		18 - 30 VDC
Current regulating diode		2 - 10 mA
Electrical noise, equiv. g:		
Broadband	**2.5 Hz to 25 kHz**	8.0 µg
Spectral	**2 Hz**	2.0 µg/√Hz
	10 Hz	0.4 µg/√Hz
	100 Hz	0.2 µg/√Hz
Output impedance, max		100 Ω
Bias output voltage		10 VDC
Grounding		case isolated, internally shielded
Temperature range		–50° to +120°C
Vibration limit		250 g peak
Shock limit		5,000 g peak
Electromagnetic sensitivity, equiv. g		20 µg/gauss
Sealing		hermetic
Base strain sensitivity, max		0.0001 g/µstrain
Sensing element design		PZT, compression
Weight		142 grams
Case material		316L stainless steel
Mounting		1/4-28 tapped hole
Output connector		2 pin, MIL-C-5015
Mating connector		R6 type
Recommended cabling		J9T2A

Accessories supplied: SF6 mounting stud; calibration data (level 2)

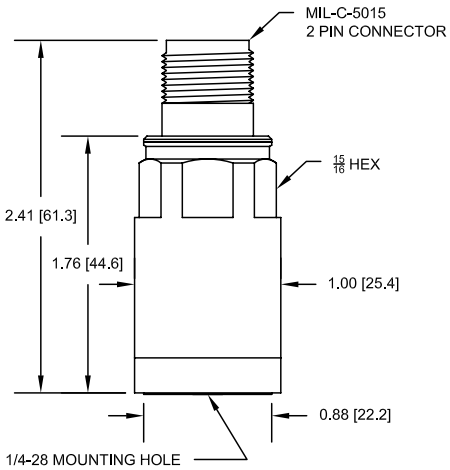
Certifications

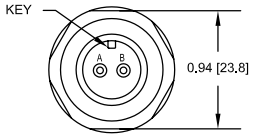
All 793L models	793LE
CE	FM APPROVED — Class I, II, III, T4 Div 1 Groups A, B, C, D, E, F, G Div 2 Groups A, B, C, D, F, G



Key features

- Certified version available for use in hazardous areas (model 793LE)
- Manufactured in ISO 9001 facility





Connections	
Function	Connector pin
power/signal	A
common	B
ground	shell

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

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