

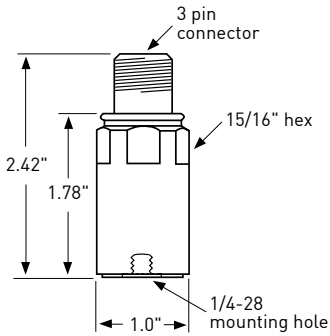
Model 793T-3

General purpose accelerometer with internal temperature sensor



Features

- Senses both acceleration and temperature
- Rugged design
- Hermetic seal
- Ground isolated
- ESD protection
- Reverse wiring



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	24 kHz
Transverse sensitivity, max.	5% of axial
Temperature response:	
-50°C	-10%
+120°C	+5%
Temperature output sensitivity, ±5%	10 mV/°K
Temperature measurement range	223 to 390°K (-50 to 120°C)

Electrical

Temperature sensor

Power requirement: voltage source	18 - 30 VDC
current regulating diode	2 - 4 mA
Grounding	case isolated, internally shielded

Accelerometer

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
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 peak
Electromagnetic sensitivity, equiv. g.	10 µg/gauss
Sealing	hermetic
Base strain sensitivity	0.0005 g/µstrain

Physical

Sensing element design	PZT ceramic / compression
Weight	115 grams
Case material	316L stainless steel
Mounting	1/4-28 tapped hole
Output connector	3 pin, MIL-C-5015 style
Mating Connector	R6G type
Recommended cabling	J9T3A

Connector pin	Function
Shell	ground
A	accelerometer- power & signal
B	accelerometer- temperature / sensor common
C	temperature sensor- power & signal

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

ALTHEN reserves the right to vary the foregoing details without prior notice



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