Intrinsically safe triaxial accelerometer



993B-7-M12 [CERT]

SPECIFICATIONS

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Sensitivity, ±10%, 25°C	100 mV/g
Acceleration range	60 g peak
Amplitude nonlinearity	1%
Frequency response ¹ : Z axis, ±3 dB X and Y axes, ±3 dB	2 - 10,000 Hz 2 - 7,000 Hz
Resonance frequency	>35 kHz
Transverse sensitivity, max	7% of axial
Power requirement: Voltage source Current regulating diode	18 - 30 VDC 2 - 5 mA
Electrical noise, equiv. g, nominal: Broadband 2.5 Hz to 25 kHz Spectral 10 Hz 100 Hz 1,000 Hz	160 μg 10 μg/√Hz 2.0 μg/√Hz 1.5 μg/√Hz
Output impedance, max	400 Ω
Bias output voltage	12 VDC
Grounding	case isolated, internally shielded
Turn-on time	<1 sec
Temperature range	–50° to +120°C
Vibration limit	500 g peak
Shock limit	5,000 g peak
Electromagnetic sensitivity, equiv. g, max	100 μg/gauss
Sealing	hermetic
Base strain sensitivity, max	0.0005 g/µstrain
Weight (excluding cable)	124 grams
Case material	316L stainless steel
Mounting	10-32 captive screw
Output connector	4 pin, M12 style
Mating connector	RM12S
Recommended cabling	4 conductor, shielded

Notes: ¹ As measured using the TCC-993 mounting screw. Accessories supplied: Captive screw; calibration data

Certifications



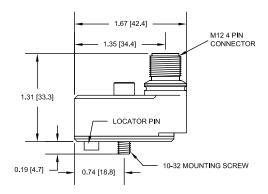
Class I, Div 1, Groups A, B, C, D Class I, Div 2, Groups A, B, C, D T4A (85°C max)

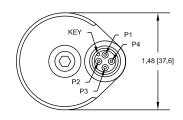


Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.

Key features

- · Three axis simultaneous sensing
- · Hazardous area certified intrinsically safe
- · Manufactured in ISO 9001 facility





Connections	
Function	Connector pin
X axis, power/signal	1
Y axis, power/signal	2
Z axis, power/signal	3
common (all channels)	4
ground	shell

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