Intrinsically safe certified accelerometer

780A-IS



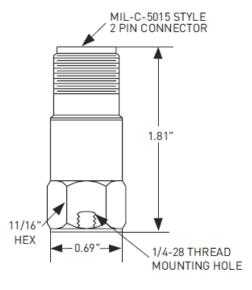


Key features

- Prevents ground loops in permanent mount applications with proper cabling
- · Can be submersed with proper connector
- Compact size
- · Hermetically sealed
- · ESD protected
- Reverse wiring protection
- EMI/RFI shielded
- Class I, II, III Div 1/ Zone 0 certified
- · Manufactured in an approved ISO 9001 facility

KEY 0.69 [17.5]

Connections	
Function	Connector pin
power/signal	Α
common	В
ground	shell



Certifications



Class I, Div 1/Zone 0 Groups A, B, C, D Class II, Div 1 Groups E, F, G Class III, Div 1 AEx/Ex iA IIC T4



Ga Ex nA IIC T4





be installed in accordance with installation instructions or local code requirements. Electrical safety barrier required for



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

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Wilcoxon Sensing Technologies An Amphenol Company

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780A-IS

SPECIFICATIONS

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Sensitivity, ±5%, 25° C	100 mV/g
Acceleration range	80 g peak
Amplitude nonlinearity	1%
Frequency response: ± 5% ± 10% ± 3 dB	1 - 7,000 Hz 0.7 - 9,000 Hz 0.4 - 14,000 Hz
Resonance frequency	30 kHz
Transverse sensitivity	5% of axial
Temperature response: -25° C +120° C Power requirement:	–10% +10%
Voltage source Current regulating diode	18 - 30 VDC 2 - 10 mA
Electrical noise, equiv. g, nominal: Broadband 2.5 Hz to 25 kHz Spectral 10 Hz 100 Hz 1,000 Hz	500 μg 7 μg/√Hz 4 μg/√Hz 2 μg/√Hz
Output impedance	100 Ω
Bias output voltage	12 VDC
Grounding	case isolated, internally shielded
Temperature range	–50 to +120° C
Vibration limit	500 g peak
Shock limit	5,000 g peak
Electromagnetic sensitivity, equiv g, max	70 μg/gauss
Sealing	hermetic
Base strain sensitivity, max	0.0002 g/µstrain
Sensing element design	PZT, shear
Weight	62 grams
Case material	316L stainless steel
Mounting	1/4-28 UNF tapped hole
Output connector	2-pin, MIL-C-5015 style
Mating connector	R6 type
Recommended cabling	J10 / J9T2A

Contact

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Accessories supplied:

- Calibration data (level 2)
- SF6 mounting stud (international customers specify mounting requirements)

Optional accessories: ISBS-STD-08: MTL 7728+ safety barrier

Note: Frequency response and spectral noise values are typical.

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