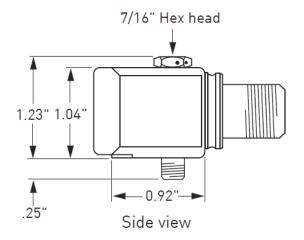
Intrinsically safe certified, low profile accelerometer



787A-IS



0.55" R 0.99" 1.44" 2.10" Bottom view



Connections		
Function	Connector pin	Cable conductor color
power / signal	А	white
common	В	black
ground	shell	shield

Key features

- Corrosion resistant
- · Hermetic design
- · Ground isolated
- ESD protection
- Reverse wiring protection
- Mounts in any orientation
- Hazardous area certified - intrinsically safe

Certifications



Class I, Div 1 Groups A, B, C, D Class II, Div 1 Groups E, F, G Class III, Div 1

Class I, Zone 0, Ex ia IIC T4 Class I, Zone 0, Aex ia IIC T4



Ex ia IIC T4 Ga





For hazardous area locations, sensor must be installed in accordance with installation instructions or local code requirements. Electrical safety barrier required for hazardous area installations.



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

Intrinsically safe certified, low profile accelerometer



787A-IS

SPECIFICATIONS

Sensitivity, ±5%, 25° C	100 mV/g
Acceleration range	80 g peak
Amplitude nonlinearity	1%
Frequency response: ± 10% ± 3 dB	1.0 - 5,000 Hz 0.7 - 10,000 Hz
Resonance frequency	22 kHz
Transverse sensitivity, max	5% of axial
Temperature response: -25° C +120° C	–10% +10%
Voltage source Current regulating diode	18 - 28 VDC 2 - 10 mA
Electrical noise, equiv g: Broadband 2. 5 Hz to 25 kHz Spectral 10 Hz 100 Hz 1000 Hz	700 μg 10 μg/√Hz 5 μg/√Hz 5 μg/√Hz
Output impedance, max	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, min	5,000 g peak
Electromagnetic sensitivity, equiv g, max	70 μg/gauss
Sealing	hermetic
Base strain sensitivity, max	0.002 g/µstrain
Sensing element design	PZT ceramic / shear
Weight	145 grams
Case material	316L stainless steel
Mounting	1/4-28 captive hex head screw with 0.046 diameter safety wire hole
Output connector	2 pin, MIL-C-5015 style
Mating connector	R6 type

Contact

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Accessories supplied:

- 1/4-28 captive hex head screw
- Calibration data (level 2)

Optional accessories available:

ISBS-STD-01: MTL 728 + safety barrier ISBS-STD-08: MTL 7728 + safety barrier

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