Intrinsically safe accelerometer ISTACCSI10

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 0.5 - 10,000 Hz
Resonance frequency		22 kHz
Transverse sensitivity, max		5% of axial
Temperature response:	−55°C +120°C	–20% +10%
Power requirement: Voltage source Current regulating diode	<u> </u>	18 - 28 VDC 2 - 10 mA
Electrical noise, equiv. g: Broadband 2.5 Hz Spectral	to 25 kHz 10 Hz 100 Hz 1,000 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		–55° 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, 0.046" diameter safety wire hole
Output connector		2 pin, MIL-C-5015 style
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Mating connector		R6 type

Accessories supplied: 1/4-28 captive hex head screw; calibration data (level 2) Certifications





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

Class I Zone 0 AEx/Ex ia IIC T4 Ta = -50°C to 120°C



II 1 G Ex ia IIC T4 Ga Ta = -50°C to 120°C





Relabeled model 787A-IS from Wilcoxon Sensing Technologies Must be installed per document 12879. For application in explosive atmospheres caused by gases, vapours or mists and where the use of apparatus of category 1G is required, electrostatic charges on the cable and non-metallic parts of the enclosure shall be avoided. The ambient temperature range for these

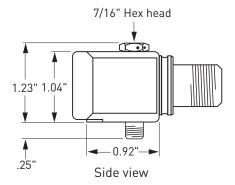
Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.

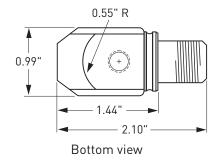




Key features

- Hazardous area certified intrinsically safe
- API 670 compliant
- Manufactured in ISO 9001 facility





Connections	
Function	Connector pin / cable conductor color
power/signal	A / white
common	B / black
ground	shell / shield