Intrinsically safe accelerometer, side exit

ISTACCSI10

SPECIFICATIONS

Sensitivity, ±5%, 25°C		100 mV/g
Acceleration range		80 g peak
Amplitude nonlinearity		1%
Frequency response:	**±10%**	1.0 - 5,000 Hz
	±3 dB	0.5 - 10,000 Hz
Resonance frequency		22 kHz
Transverse sensitivity, max		5% of axial
Temperature response:	**–55°C**	–20%
	+120°C	+10%
Power requirement:		
Voltage source		18 - 28 VDC
Current regulating diode		2 - 10 mA
Electrical noise, equiv. g:		
Broadband	**2.5 Hz to 25 kHz**	700 µg
Spectral	**10 Hz**	10 µg/√Hz
	100 Hz	5 µg/√Hz
	1,000 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
Mating connector		R6 type
Recommended cabling		J10 / J9T2A

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

Certifications

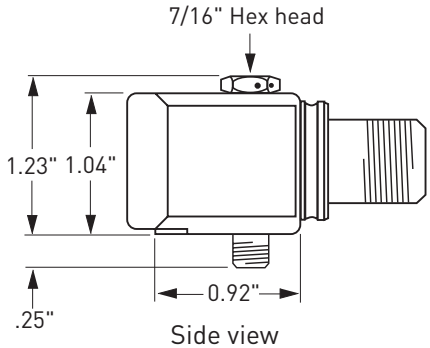
Class I, Div 1 Groups A, B, C, D
Class II, Div 1 Groups E, F, G
Class III
Class I Zone 0 AEx/Ex ia IIC T4
Ta = -50°C to 120°C

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

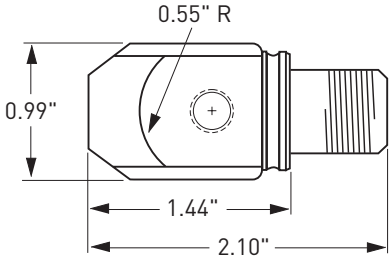
Relabeled model 787A-IS from Wilcoxon Sensing Technologies Must be installed per document 12879. For application in explosive atmospheres caused by gases, vapours or mists and where the use of apparatus of category 1G is required, electro-static charges on the cable and non-metallic parts of the enclosure shall be avoided. The ambient temperature range for these applications is -40°C to +80°C.

Key features

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



Side view



Bottom view

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

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