Intrinsically safe dual output sensor

786T-IS

SPECIFICATIONS

Sensitivity, ±5%, 25°C		100 mV/g
Acceleration range		60 g peak
Amplitude nonlinearity		1%
Frequency response:	**±5%**	3 - 5,000 Hz
	±10%	1 - 7,000 Hz
	±3 dB	0.5 - 12,000 Hz
Resonance frequency		30 kHz
Transverse sensitivity, max		5% of axial
Temperature response:	**–50°C**	–10%
	+120°C	+10%
Temperature sensor:		
Output sensitivity		10 mV/°C
Measurement range		2° to 120°C
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, nominal		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 ceramic / shear
Weight		90 grams
Case material		316L stainless steel
Mounting		1/4-28 UNF tapped hole
Output connector		3 pin, MIL-C-5015 style
Mating connector		R6G
Recommended cabling		J9T3A

Certifications

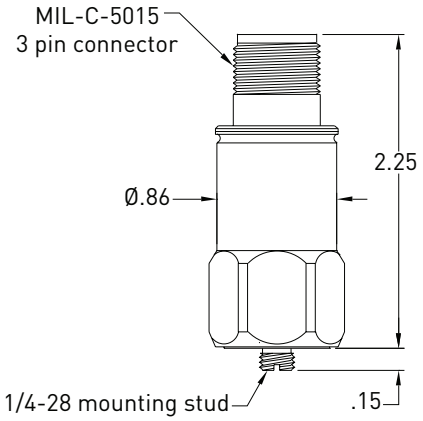
Class I, Div 1 Groups A, B, C, D
Class II, Div 1 Groups E, F, G
Class III
Class I Zone 0 AEx/Ex ia IIC T4
Ta = -50°C to 120°C

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

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 applications is -40°C to +80°C.

Key features

- Accelerometer with internal temperature sensor
- Intrinsically safe certified
- Manufactured in ISO 9001 facility



Accessories supplied: SF6 mounting stud; calibration data (level 2)

Connections	
Function	Connector pin / color
accelerometer power / signal	A / red
accelerometer and temp sensor common	B / black
temp sensor signal	C / white
ground / case	shell

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

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