

Class I Div 2 certified dual output sensor




786T-D2

SPECIFICATIONS

Sensitivity, $\pm 5\%$, 25°C	100 mV/g
Acceleration range, VDC > 25 V	80 g peak
Amplitude nonlinearity	1%
Frequency response:	
$\pm 5\%$	3 - 5,000 Hz
$\pm 10\%$	1 - 7,000 Hz
± 3 dB	0.5 - 12,000 Hz
Resonance frequency	30 kHz
Transverse sensitivity, max	5% of axial
Temperature response:	
-25°C	-10%
+120°C	+10%
Temperature sensor:	
Output sensitivity	10 mV/°C
Measurement range	2° to 120°C
Power requirement:	
Voltage source	18 - 30 VDC
Current regulating diode	2 - 10 mA
Electrical noise, equiv. g:	
Broadband 2.5 Hz to 25 kHz	700 μ g
Spectral 10 Hz	10 μ g/ $\sqrt{\text{Hz}}$
100 Hz	5 μ g/ $\sqrt{\text{Hz}}$
1,000 Hz	5 μ g/ $\sqrt{\text{Hz}}$
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 μ g/gauss
Sealing	hermetic
Base strain sensitivity, max	0.0002 g/ μ strain
Sensing element design	PZT, 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

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

Certifications

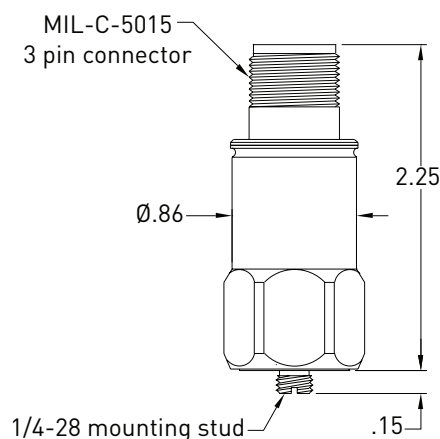
 <p>Class I, Div 2 Groups A, B, C, D Class I, Zone 2 AEx/Ex nA II T4 Tamb: -50°C to 120°C</p>	 <p>II 3 G Ex nA IIC T4 Gc</p>	
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Must be installed per 13029. • Ambient temperature range depends on the type cable used during installation. • Cable with FEP jacket, Ta=-50°C to +120°C. • Cable with Santoprene jacket, Ta=-45°C to +115°C.



Key features

- Accelerometer with internal temperature sensor
- Certified for use in Class I Div 2 hazardous areas
- Manufactured in ISO 9001 facility



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

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