Intrinsically safe certified accelerometer



780A-IS

SPECIFICATIONS

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Sensitivity, ±5%, 25°C	100 mV/g
Acceleration range	80 g peak
Amplitude nonlinearity	1%
Frequency response: ±5°	,
±10% ±3 di	-,
Resonance frequency	30 kHz
Transverse sensitivity, max	5% of axial
Temperature response: -55°	
+120°0	
Power requirement: Voltage source	e 18 - 30 VDC
Current regulating diode	e 2 - 10 mA
Electrical noise, equiv. g:	500
Broadband 2.5 Hz to 25 kH Spectral 10 H	. 9
10 H	
1,000 H	
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	5,000 g peak
Electromagnetic sensitivity, equiv. g, n	nax 70 μg/gauss
Sealing	hermetic
Base strain sensitivity, max	0.0002 g/µstrain
Sensing element design	PZT, shear
Weight	62 grams
Case material	316L stainless steel
Mounting	1/4-28 UNF tapped hole
Output connector	2 pin, MIL-C-5015 style
Mating connector	R6 type
Recommended cabling	J10 / J9T2A

Note: Frequency response and spectral noise values are typical. Accessories supplied: SF6 mounting stud; calibration data (level 2)

Optional accessories available: ISBS-STD-08: MTL 7728 + safety barrier

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



II1G Ex ia IIC T4 Ga Ta = -50°C to 120°C





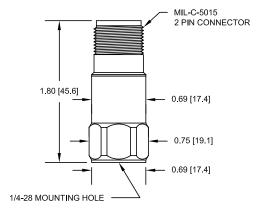


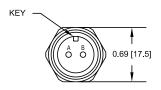
Must be installed per document 12879. For application in explosive atmospheres caused by gases, vapours or mists and where the use of apparatus of category 1G is required, electrostatic charges on the cable and non-metallic parts of the enclosure shall be avoided. The ambient temperature range for these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



Key features

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





Connections	
Function	Connector pin
power/signal	Α
common	В
ground	shell

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