Intrinsically safe low-frequency accelerometer

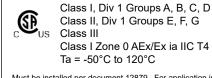
786-500-M12-IS

SPECIFICATIONS

Sensitivity, ±5%, 25°C	500 mV/g
Acceleration range, VDC > 22 V	10 g peak
Amplitude nonlinearity	1%
. ,	±5% 0.7 - 5,000 Hz 10% 0.5 - 9,000 Hz 3 dB 0.2 - 14,000 Hz
Resonance frequency	30 kHz
Transverse sensitivity, max	5% of axial
	25°C −10% 20°C +10%
Power requirement: Voltage source Current regulating diode	18 - 30 VDC 2 - 10 mA
10	kHz 250 μg 0 Hz 2.5 μg/√Hz 0 Hz 1.5 μg/√Hz 0 Hz 1.5 μg/√Hz
Output impedance, max	100 Ω
Bias output voltage	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, shear
Weight	90 grams
Case material	316L stainless steel
Mounting	1/4-28 UNF tapped hole

Notes: 1 Frequency response limits and spectral noise values are typical. Accessories supplied: SF6M-1 mounting stud; calibration data (level 2)

Certifications



Class II, Div 1 Groups E, F, G Class I Zone 0 AEx/Ex ia IIC T4 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.

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

Wilcoxon Sensing Technologies An Amphenol Company 99178 Rev.C.4 02/24

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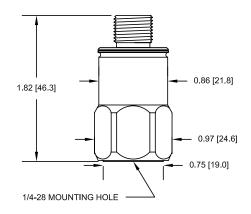
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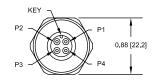




Key features

- Class I, Div 1/Zone 0/1 certified intrinsically safe
- High sensitivity
- · Extended low frequency response
- Manufactured in ISO 9001 facility





Connections	
Function	Connector pin
power/signal	1
common	2
N/C	3
N/C	4
ground	shell