

## 786-500-D2

Class I Div 2 certified low-frequency accelerometer

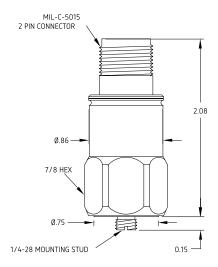
## SPECIFICATIONS

Sensitivity, ±5%, 25°C	500 mV/g
Acceleration range, VDC > 22 V	10 g peak
Amplitude nonlinearity	1%
Frequency response <sup>1</sup> : ±5% ±10% ±3 dE	6 0.5 - 9,000 Hz
Resonance frequency	30 kHz
Transverse sensitivity, max	5% of axial
Temperature response: -50°0 +120°0	
Power requirement: Voltage source Current regulating diode	18 - 30 VDC 2 - 10 mA
Electrical noise, equiv. g: Broadband 2.5 Hz to 25 kHz Spectral 10 Hz 100 Hz 1,000 Hz	z 2.5 µg/√Hz z 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, m	<b>iax</b> 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
Output connector	2 pin, MIL-C-5015 style
Recommended cabling	J10 / J9T2A



## **Key features**

- Class I, Div 2/Zone 2 certified non-incendive
- · High sensitivity
- Extended low frequency response
- · Manufactured in ISO 9001 facility



Notes: 1 Frequency response limits, spectral and noise values are typical. Accessories supplied: SF6 mounting stud; calibration data (level 2)

## Certifications



Class I, Div 2 Groups A, B, C, D Class I, Zone 2 AEx/Ex nA II T4 Ta = -50°C to 120°C

ll 3 G



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.

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

Page 1/1

Connector pin

А

В

shell

The information provided herein is to the best of our knowledge true and accurate, it is provided for guidance only. All specifications are subject to change without prior notification. Althen – Your expert partner in Sensors & Controls | althensensors.com

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Connections

power/signal

Function

common

ground

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