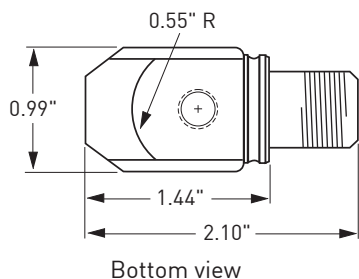
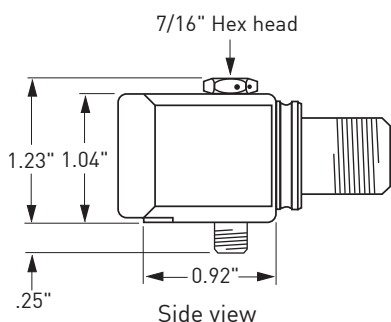


Model 787A-IS Intrinsically safe certified Low profile accelerometer



Features

- Corrosion resistant
- Hermetic design
- Ground isolated
- ESD protection
- Reverse wiring protection
- Mounts in any orientation
- Hazardous area certified - intrinsically safe



Dynamic

Sensitivity, ±5%, 25°C	100 mV/g
Acceleration range	80 g peak
Amplitude nonlinearity	1%
Frequency response:	
±10%	1.0 - 5,000 Hz
±3 dB	0.7 - 10,000 Hz
Resonance frequency	22 kHz
Transverse sensitivity, max	5% of axial
Temperature response:	
-50°C	-5%
+120°C	+5%

Electrical

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
1000 Hz		5 µg/√Hz
Output impedance, max		100 Ω
Bias output voltage		12 VDC
Grounding		case isolated, internally shielded

Environmental

Temperature range	-50 to 120°C
Vibration limit	500 g
Shock limit, min	5,000 g
Electromagnetic sensitivity, equiv. g, max	70 µg/gauss
Sealing	hermetic
Base strain sensitivity, max	0.002 g/µstrain

Physical

Sensing element design	PZT ceramic / shear
Weight	145 grams
Case material	316L stainless steel
Mounting	1/4 - 28 captive hex head screw with 0.046" diameter safety wire hole
Output connector	2 pin, MIL-C-5015 style
Mating connector	R6 type
Recommended cabling	J10 / J9T2A

Connector pin	Function	Cable conductor color
Shell	ground	Shield
A	power/ signal	White
B	common	Black

Accessories supplied: #80165-01 captive hex head screw; calibration data (level 2).

Optional accessories available:

ISBS-STD-01: MTL 728 + safety barrier

ISBS-STD-08: MTL 7728 + safety barrier


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 Class I, Div 1 Groups A, B, C, D
Class II, Div 1 Groups E, F, G
Class III, Div 1
Class I, Zone 0, Ex ia IIC T4
Class I, Zone 0, Aex ia IIC T4

 Ex ia IIC T4



For hazardous area locations, sensor must be installed in accordance with installation instructions or local code requirements. Electrical safety barrier required for hazardous area installations.



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