

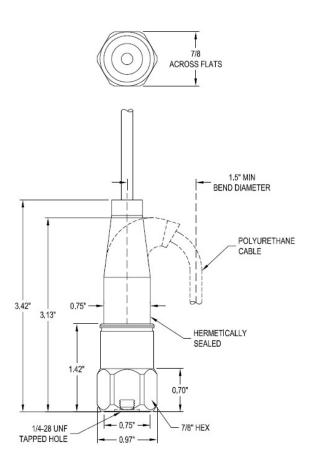
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786F-IM

Injection molded integral cable accelerometer series

FEATURES

- Affordable injection molded integral cable
- Hermetically sealed sensor, IP68 molded cable
- Manufactured in ISO 9001 facility





CONNECTIONS

Function	Cable conductor color
power/signal	red
common	black
N/C	shield

TABLE 1: 786F-IM-X CABLE SELECTION GUIDE

-X (cable option)

-J9T2A = twisted, shielded pair, Yellow Teflon jacket, 200°C, 16ft standard, blunt cut

-J10 = twisted, shielded pair, grey Enviroprene jacket, 125°C, 16ft standard, blunt cut



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



SPECIFICATIONS

Sensitivity, ± 5%, 25°C	100 mV/g
Acceleration range	80 g peak
Amplitude nonlinearity	1%
Frequency response, nominal: ± 10% ±3 dB	1 - 8,000 Hz 0.5 - 13,000 Hz
Resonance frequency	30 kHz
Transverse sensitivity, max	5% of axial
Temperature response: -50°C +120°C	-5% +5%
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	700 µg 10 µg/√Hz 5 µg/√Hz 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, min	5,000 g peak
Electromagnetic sensitivity, equiv. g, max	70 μg/gauss
Sensor sealing	hermetic
Integral cable sealing	IP67
Base strain sensitivity, max	0.0002 g/µstrain
Sensing element design	PZT ceramic / shear
Weight	90 grams (excluding cable)
Case material	316L stainless steel
Mounting	1/4-28 UNF tapped hole
Integral cabling	see Table 1
Accessories supplied: SE6 mounting study calibrati	an data (laval 2)

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

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