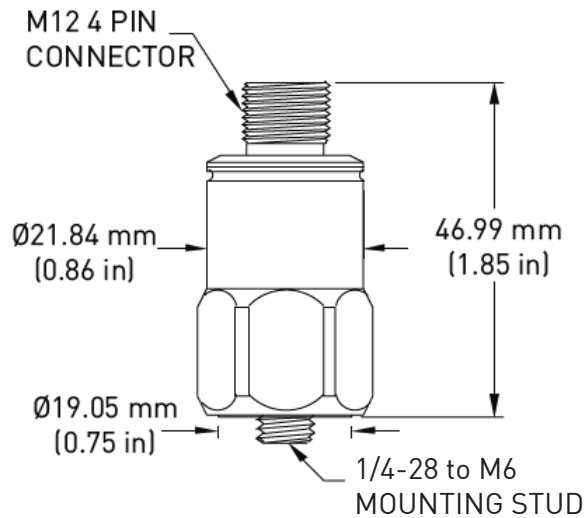# General purpose accelerometer
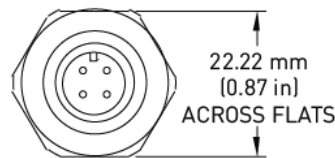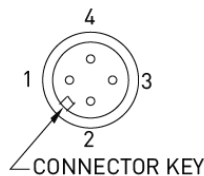## 786A-M12

Key features

- Comes with the industry popular M12 connector
- Hermetically sealed
- Rugged design
- Corrosion resistant
- Case isolated
- ESD-protected

Certifications

CE

M12 4 PIN CONNECTOR

Ø21.84 mm (0.86 in)

46.99 mm (1.85 in)

Ø19.05 mm (0.75 in)

1/4-28 to M6 MOUNTING STUD

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

CONNECTOR KEY

22.22 mm (0.87 in) ACROSS FLATS

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

General purpose accelerometer
786A-M12

SPECIFICATIONS

Sensitivity, ±5%, 25° C		100 mV/g
Acceleration range, VDC > 25V		80 g peak
Amplitude nonlinearity		1%
Frequency response:	**± 5%**	3 - 5,000 Hz
	± 10%	1 - 9,000 Hz
	± 3 dB	0.5 - 14,000 Hz
Resonance frequency		30 kHz
Transverse sensitivity, max		5% of axial
Temperature response:	**–25° C**	–10%
	+120° C	+10%
Power requirement:		
Voltage source		18 - 30 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
	1,000 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		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
Mating connector		M12 style, 4 or 5 pin
Recommended cabling		J10 / J9T2A

Contact

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Accessories supplied:

- Calibration data (level 2)
- SF6M-1 mounting stud

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