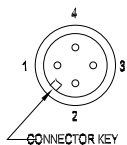
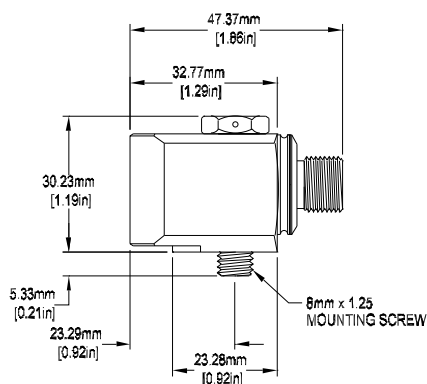
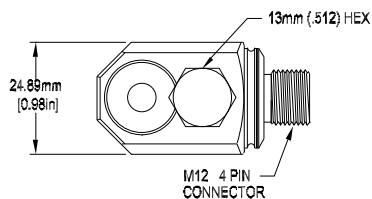




**Features**

- M12 connector
- Hermetic seal
- Rugged design
- Corrosion resistant
- Case isolated
- ESD protection



## 787AM8-M12

### Low profile, general purpose accelerometer

#### 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 - 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
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 peak
Shock limit .....	5,000 g peak
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
Output connector .....	4 pin, M12-style
Mating connector .....	M12-style
Recommended cabling .....	J10 / J9T2A
Mounting .....	captive screw, M8 thread

Connector pin	Function
Shell	Ground
Pin 1	Signal / power
Pin 2	Common
Pin 3	N/C
Pin 4	N/C

Accessories supplied: M8 thread captive hex head screw; calibration data (level 2).

Wilcoxon Research Inc  
20511 Seneca Meadows Parkway  
Germantown, MD 20876  
USA

Tel: 301 330 8811  
Fax: 301 330 8873  
Email: wilcoxon@meggitt.com

www.meggitt.com

