General purpose dual output sensor

787T-M12-KCF

SPECIFICATIONS

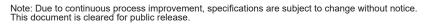
Sensitivity, ±5%, 25°C	100 mV/g
Acceleration range, VDC > 25 V	80 g peak
Amplitude nonlinearity	1%
Frequency response: ±5%	1.0 - 5,000 Hz
±10%	0.7 - 10,000 Hz
±3 dB	0.5 - 12,000 Hz
Resonance frequency	22 kHz
Transverse sensitivity, max	5% of axial
Temperature response: -25°C +120°C	–10% +10%
_	+ 1076
Temperature sensor: Output sensitivity	10 mV/°C
Measurement range	2° to 120°C
Power requirement: Voltage source ¹	18 - 30 VDC
Current regulating diode ^{1,2}	2 - 10 mA
Electrical noise, equiv. g, nominal:	
Broadband 2.5 Hz to 25 kHz	700 μg
Spectral 10 Hz	10 μg/√Hz
100 Hz 1,000 Hz	5 μg/√Hz 5 μg/√Hz
Output impedance, max	100 Ω
Bias output voltage, nominal	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	0.002 g/µstrain
Sensing element design	PZT, shear
Weight	145 grams
Case material	316L stainless steel
Mounting	1/4-28 captive screw w/ 0.046"
Woulding	diameter safety wire hole
Output connector	4 pin, M12
Mating connector	4 or 5 socket, M12
Recommended cabling	4 conductor, shielded

Notes: ¹ To minimize the possibility of signal distortion during high vibration signals, 24 to 28 VDC powering is recommended. The higher level constant current source should be used when driving long cables.

² A maximum current of 6 mA is recommended for operating temperatures in excess of 100°C.

Accessories supplied: 1/4-28 captive screw (optional M6 captive screw)



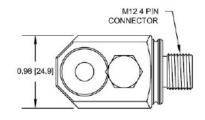


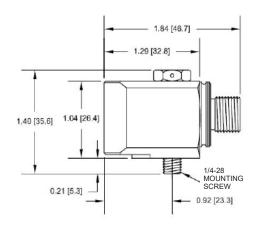




Key features

- Accelerometer with internal temperature sensor
- Manufactured in ISO 9001 facility





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

KEY

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