

Model Number
608M 50

INDUSTRIAL 3-WIRE ACCELEROMETER

Revision: B
ECN #: 49794

	ENGLISH	SI	
Performance			
Sensitivity(± 20 %)	100 mV/g	10.2 mV/(m/s ²)	[1]
Measurement Range(12 VDC)	± 50 g	± 490 m/s ²	[2]
Measurement Range(5 VDC)	± 15 g	± 147 m/s ²	[2]
Frequency Range(± 3 dB)	90 to 600,000 cpm	1.5 to 10,000 Hz	
Resonant Frequency	1,320 kcpm	22 kHz	[2]
Broadband Resolution(1 to 10,000 Hz)	2 mg	19.6 mm/s ²	[2]
Non-Linearity	± 1 %	± 1 %	[3]
Transverse Sensitivity	≤ 7 %	≤ 7 %	
Environmental			
Overload Limit(Shock)	5,000 g pk	49,050 m/s ² pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[2]
Enclosure Rating	IP68	IP68	
Electrical			
Settling Time(within 1% of bias)	≤ 5.0 sec	≤ 5.0 sec	
Discharge Time Constant	≥ 0.1 sec	≥ 0.1 sec	
Excitation Voltage	5 to 12 VDC	5 to 12 VDC	
Output Impedance	< 100 Ohm	< 100 Ohm	
Current Draw	0.5 mA	0.5 mA	
Output Bias Voltage	2.5 to 6 VDC	2.5 to 6 VDC	
Spectral Noise(10 Hz)	18 µg/√Hz	176.6 (µm/sec ²)/√Hz	[2]
Spectral Noise(100 Hz)	4 µg/√Hz	39.2 (µm/sec ²)/√Hz	[2]
Spectral Noise(1 kHz)	2 µg/√Hz	19.6 (µm/sec ²)/√Hz	[2]
Electrical Isolation(Case)	> 10 ⁸ Ohm	> 10 ⁸ Ohm	
Physical			
Size - Hex	9/16 in	14 mm	
Size - Height	2.5 in	64 mm	
Weight(with cable)	3.5 oz	99.3 gm	
Mounting	Stud	Stud	
Mounting Thread	1/4-28 Female	1/4-28 Female	[4]
Mounting Torque	2 to 5 ft-lb	2.7 to 6.8 Nm	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Molded	Molded	
Electrical Connector	Molded Integral Cable	Molded Integral Cable	
Electrical Connection Position	Top	Top	
Cable Termination	Blunt cut	Blunt cut	[4]
Electrical Connections(Red)	Pos (+) Power	Pos (+) Power	
Electrical Connections(Black)	Ground	Ground	
Electrical Connections(White)	Acceleration Output	Acceleration Output	
Cable Length	10 ft	3 m	
Cable Type	Polyurethane	Polyurethane	

OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

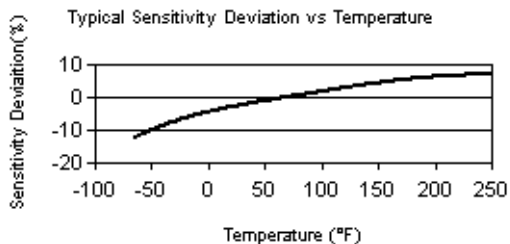
M - Metric Mount
Supplied Accessory: Model M081A61 Mounting Stud 1/4-28 to M6 X 1

NOTES:

- [1] Conversion Factor 1g = 9.81 m/s².
- [2] Typical.
- [3] Zero-based, least-squares, straight line method.
- [4] 1/4-28 has no equivalent in S.I. units.

SUPPLIED ACCESSORIES:

Model 081A40 Mounting Stud (1)
Model ICS-2 NIST-traceable single-point amplitude response calibration at 6000 cpm (100 Hz) for each axis (1)



All specifications are at room temperature unless otherwise specified.
In the interest of constant product improvement, we reserve the right to change specifications without notice.
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Entered: LK	Engineer: YHK	Sales: MC	Approved: NJF	Spec Number:
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