

Model Number
607M140

INDUSTRIAL ICP® ACCELEROMETER

Revision: NR
ECN #: 47985

Performance

	ENGLISH	SI	
Sensitivity(± 10 %)	100 mV/g	10.2 mV/(m/s ²)	[2]
Measurement Range	± 80 g	± 785 m/s ²	
Frequency Range(± 3 dB)	24 to 840,000 cpm	0.4 to 14,000 Hz	[3]
Resonant Frequency	1500 kcpm	25 kHz	[1]
Broadband Resolution(1 to 10,000 Hz)	550 µg	5395 µm/sec ²	[1]
Non-Linearity	± 1 %	± 1 %	[4]
Transverse Sensitivity	≤ 7 %	≤ 7 %	

Environmental

Overload Limit(Shock)	5000 g pk	49,050 m/s ² pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[1]
Enclosure Rating	IP68	IP68	

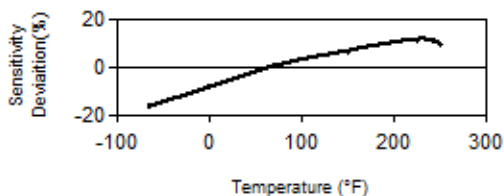
Electrical

Settling Time(within 1% of bias)	≤ 2.0 sec	≤ 2.0 sec	
Discharge Time Constant	≥ 0.4 sec	≥ 0.4 sec	
Excitation Voltage	24 to 28 VDC	24 to 28 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	<150 Ohm	<150 Ohm	
Output Bias Voltage	10 to 14 VDC	10 to 14 VDC	
Spectral Noise(10 Hz)	10 µg/√Hz	98.1 (µm/sec ²)/√Hz	[1]
Spectral Noise(100 Hz)	7 µg/√Hz	68.7 (µm/sec ²)/√Hz	[1]
Spectral Noise(1 kHz)	7 µg/√Hz	68.7 (µm/sec ²)/√Hz	[1]
Electrical Isolation(Case)	>10 ⁸ Ohm	>10 ⁸ Ohm	

Physical

Size (Hex x Height)	9/16 in x 0.97 in	14 mm x 24.6 mm	
Weight	1.1 oz	31 gm	
Mounting	Stud	Stud	
Mounting Thread	1/4-28 Male	No Metric Equivalent	[5]
Mounting Torque	3 to 4 ft-lb	4.1 to 5.4 Nm	
Mounting Torque	2 to 3 ft-lb	2.7 to 4.1 Nm	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	Molded Integral Cable	Molded Integral Cable	
Electrical Connection Position	Side	Side	
Cable Length	10 ft	3.0 m	
Cable Type	Polyurethane	Polyurethane	

Typical Sensitivity Deviation vs Temperature



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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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.

NOTES:

- [1] Typical.
- [2] Conversion Factor 1g = 9.81 m/s².
- [3] The high frequency tolerance is accurate within ±10% of the specified frequency.
- [4] Zero-based, least-squares, straight line method.
- [5] 1/4-28 has no equivalent in S.I. units.
- [6] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model 080A156 Mounting Base (1)
Model ICS-2 NIST-traceable single-point amplitude response calibration at 6000 cpm (100 Hz) for each axis (1)

Entered: LK	Engineer: RB	Sales: MC	Approved: BAM	Spec Number:
Date: 3/22/2018	Date: 3/22/2018	Date: 3/22/2018	Date: 3/22/2018	69070


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