

Model Number
625B11

PRECISION INDUSTRIAL ICP® ACCELEROMETER

Revision: H
ECN #: 49714

Performance	ENGLISH	SI	
Sensitivity(± 5 %)	100 mV/g	10.2 mV/(m/s ²)	[1]
Measurement Range	± 50 g	± 490 m/s ²	
Frequency Range(± 5 %)	30 to 390 kcpm	0.5 to 6.5 kHz	[2]
Frequency Range(± 10 %)	22 to 450 kcpm	0.37 to 7.5 kHz	
Frequency Range(± 3 dB)	12 to 630 kcpm	0.2 to 10.5 kHz	
Resonant Frequency	1,500 kcpm	25 kHz	[3]
Broadband Resolution(1 to 10 kHz)	50 µg	491 µm/sec ²	[3]
Non-Linearity	± 1 %	± 1 %	[4]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
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	[3]
Enclosure Rating	IP68	IP68	
Electrical			
Settling Time(within 1% of bias)	≤ 8.0 sec	≤ 8.0 sec	
Discharge Time Constant	≥ 1.0 sec	≥ 1.0 sec	
Excitation Voltage	18 to 28 VDC	18 to 28 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	< 100 Ohm	< 100 Ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Spectral Noise(10 Hz)	2.5 µg/√Hz	24.5 (µm/sec ²)/√Hz	[3]
Spectral Noise(100 Hz)	0.8 µg/√Hz	7.8 (µm/sec ²)/√Hz	[3]
Spectral Noise(1 kHz)	0.5 µg/√Hz	4.9 (µm/sec ²)/√Hz	[3]
Electrical Protection	RFI/ESD	RFI/ESD	
Electrical Isolation(Case)	> 10 ⁸ Ohm	> 10 ⁸ Ohm	
Physical			
Size - Diameter	1.38 in	35.1 mm	
Size - Height	1.13 in	28.7 mm	
Weight(without cable)	4.7 oz	133 gm	
Mounting	Through Hole	Through Hole	
Mounting Thread	1/4-28 Male	Not Applicable	[5]
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	Welded Hermetic	Welded Hermetic	
Cable Length	10 ft	3.0 m	
Cable Type	Polyurethane	Polyurethane	[6]

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.

EX - Hazardous Area Approval- contact factory for specific approvals

LB - Low Bias Voltage	6 to 8 VDC	6 to 8 VDC
Output Bias Voltage	12 to 28 VDC	12 to 28 VDC
Excitation Voltage	± 35 g	± 343 m/s ²
Measurement Range		

M - Metric Mount
Supplied Accessory: Model M081A73 Mounting Bolt M6 x 1.00

TO - Temperature Output	+36 to +250 °F	+2 to +121 °C
Temperature Output Range	5.56 mV/°F + 32	+10 mV/°C
Temperature Scale Factor	Acceleration Output	Acceleration Output
Electrical Connections	Ground	Ground
Electrical Connections	Temperature Output	Temperature Output
Electrical Connections	Ground	Ground

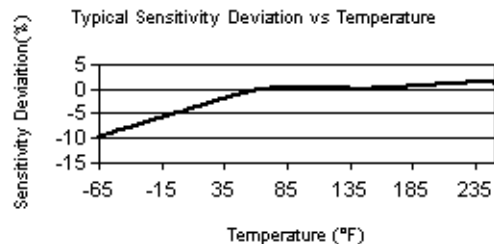
NOTES:

- [1] Conversion Factor 1g = 9.81 m/s².
- [2] The high frequency tolerance is accurate within ±10% of the specified frequency.
- [3] Typical.
- [4] Zero-based, least-squares, straight line method.
- [5] 1/4-28 has no equivalent in S.I. units.
- [6] Twisted shielded pair.
- [7] See PCB Declaration of Conformance PS023 or PS061 for details.

SUPPLIED ACCESSORIES:

- Model 081A73 Captive mounting bolt 1/4-28 x 1.34" (1)
- Model ICS-1 NIST-traceable single-axis amplitude response calibration from 600 cpm (10 Hz) to upper 5% frequency (1)
- Model 080B45 Thermal Boot (1)
- Model M081A73 Mounting Bolt M6 x 1.00 (0)

Entered: LK	Engineer: gs	Sales: MC	Approved: BAM	Spec Number:
Date: 07/11/2019	Date: 07/11/2019	Date: 07/11/2019	Date: 07/11/2019	9911



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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