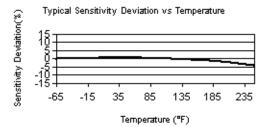
Model Number				
VO625B01				

INDUSTRIAL ICP® VELOCITY SENSOR

Revision: A ECN #: 49709

VO625B01			
Performance	ENGLISH	SI	
Sensitivity(± 10 %)	100 mV/in/sec	3,937 mV/m/sec	[4]
Measurement Range	± 50 in/sec	± 1.27 m/s	
Frequency Range(± 10 %)	180 to 150 kcpm	2.5 to 2.5 kHz	[1][3]
Frequency Range(± 3 dB)	90 to 360 kcpm	1.5 to 6 kHz	
Resonant Frequency	900 kcpm	15 kHz	[6]
Broadband Resolution(1 to 10 kHz)	400 μin/sec	10.6 μm/sec	[6]
Non-Linearity	± 1 %	± 1 %	[2]
Transverse Sensitivity	≤ 8 %	≤ 8 %	
Environmental			
Overload Limit(Shock)	5,000 g pk	49,050 m/s² pk	
Temperature Range	-65 to +250 °F	-54 to +121 ℃	
Temperature Response	See Graph	See Graph	[6]
Enclosure Rating	IP68	IP68	
Electrical			
Settling Time(within 1% of bias)	≤ 30 sec	≤ 30 sec	
Excitation Voltage	18 to 28 VDC	18 to 28 VDC	
Constant Current Excitation	2 to 10 mA	2 to 10 mA	
Output Impedance	< 100 Ohm	< 100 Ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Spectral Noise(10 Hz)	25 µin/sec/â^šHz	0.64 µm/sec/â^šHz	[6]
Spectral Noise(100 Hz)	3.0 µin/sec/â^šHz	0.08 µm/sec/â^šHz	[6]
Spectral Noise(1 kHz)	2.0 µin/sec/â^šHz	0.05 µm/sec/â^šHz	[6]
Electrical Protection	RFI/ESD	RFI/ESD	
Electrical Isolation(Case)	> 10 ⁸ Ohm	> 10 ⁸ Ohm	
Physical			
Size - Diameter	1.36 in	34.5 mm	
Size - Height	1.13 in	28.7 mm	
Weight	5.6 oz	159 gm	
Mounting	Through Hole	Through Hole	
Mounting Thread	1/4-28 Male	No Metric Equivalent	[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	
Electrical Connector	2-Pin MIL-C-5015	2-Pin MIL-C-5015	
Electrical Connection Position	Side	Side	





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. ICP® is a registered trademark of PCB Piezotronics, Inc.

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 M081A73 Mounting Bolt M6 x 1.00 (1)

NOTES:

- [1]1Hz = 60 cpm (cycles per minute).
- [2]Zero-based, least-squares, straight line method.
- [3]The high frequency tolerance is accurate within ±10% of the specified frequency.

 [4]Conversion Factor 1 in/sec = 0.0254 m/sec.

 [5]1/4-28 has no equivalent in S.I. units.

- [7]See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model 081A73 Captive mounting bolt 1/4-28 x 1.34" Model 080B45 Thermal Boot Model Calibration Certificate

Entered: LK	Engineer: YHK	Sales: MC	Approved: NJF	Spec Number:
Date: 07/02/2019	Date: 07/02/2019	Date: 07/02/2019	Date: 07/02/2019	55708



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