



Model Number T0642A31	4-20 MA OUTPUT VELOCITY SENSOR WITH TEMPERATURE				Revision: B ECN #: 43341
Performance	ENGLISH	SI			OPTIONAL VERSIONS
Measurement Range(Vibration)	0.0 to 1.0 in/sec pk	0.0 to 25.4 mm/s pk	[2]		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 M080A163A (1) replaces Model 080A162
Measurement Range(Temperature)	-40 to 257 °F	-40 to 125 °C	[1]		
Output	4-20 mA	4-20 mA			
Frequency Range(± 10 %)	180 to 60,000 cpm	3 to 1 kHz	[3][4]		
Broadband Resolution	0.005 in/sec pk	0.13 mm/s pk	[5]		
Non-Linearity	± 1 %	± 1 %			
Environmental					
Temperature Range	-40 to 185 °F	-40 to 85 °C	[1]		
Electrical					NOTES:
Excitation Voltage	12 to 30 VDC	12 to 30 VDC			[1]Vibration 4-20mA output accuracy is limited to 185°F (85°C)
Settling Time(within 2% of value)	<15 sec	<15 sec			[2]Conversion Factor 1 in/sec = 0.0254 m/sec.
Electrical Isolation(Case)	>10 ⁸ Ohm	>10 ⁸ Ohm			[3]1Hz = 60 cpm (cycles per minute).
Physical					[4]Current will fluctuate at frequencies below 5 Hz.
Size (Hex x Height)	7/8 in x 1.68 in	22.2 mm x 42.7 mm			[5]Typical value.
Weight	3.9 oz	111 gm			[6]1/8" hex Allen key required for English version, 3mm hex Allen key required for metric version.
Mounting Thread	1/4-28 UNF	1/4-28 UNF			[7]Stud torque must exceed sensor hex nut torque to ensure proper dismantling.
Mounting Torque(Stud)	3 to 4 ft-lb	4.1 to 5.4 Nm	[6][7]		[8]See PCB Declaration of Conformance PS039 for details.
Mounting Torque(hex nut)	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	4-Pin Bayonet	4-Pin Bayonet			SUPPLIED ACCESSORIES:
Electrical Connection Position	Side	Side			Model 080A162 Mounting Stud (1)
Electrical Connections(Pin A)	Vibration, 4-20 mA Pos.	Vibration, 4-20 mA Pos.			Model ICS-4 NIST-traceable single-axis amplitude response calibration from 0 cpm (0 Hz) to upper 10% frequency for 4 - 20 mA output vibration sensor (1)
Electrical Connections(Pin B)	Vibration, 4-20 mA Neg.	Vibration, 4-20 mA Neg.			
Electrical Connections(Pin C)	Temperature, 4-20 mA Pos.	Temperature, 4-20 mA Pos.			
Electrical Connections(Pin D)	Temperature, 4-20 mA Neg.	Temperature, 4-20 mA Neg.			
 [8] 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 Group, Inc.					Entered: AP
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