



Model Number TO640B31	LOOP POWERED CURRENT OUTPUT SENSOR			Revision: B ECN #: 29071	
Performance	ENGLISH	SI		OPTIONAL VERSIONS	
Measurement Range(Vibration)	0.0 to 1.0 in/s 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.	
Measurement Range(Temperature)	-40 to 257 °F	-40 to 125 °C	[1]		
Output	4-20 mA	4-20 mA		M - Metric Mount Supplied Accessory : Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1) replaces Model 081A40	
Frequency Range(± 10 %)	180 to 60,000 cpm	3 to 1 kHz	[3][4]		
Broadband Resolution	0.005 in/s pk	0.13 mm/s pk	[5]		
Non-Linearity	1 %	1 %			
Environmental				NOTES: [1] Vibration 4-20mA output accuracy is limited to 185°F (85°C) [2] Conversion Factor 1 in/sec = 0.0254 m/sec. [3] 1Hz = 60 cpm (cycles per minute). [4] Current will fluctuate at frequencies below 5 Hz. [5] Typical value. [6] See PCB Declaration of Conformance PS039 for details.	
Temperature Range	-40 to 185 °F	-40 to 85 °C	[1]		
Electrical					
Excitation Voltage	12 to 30 VDC	12 to 30 VDC			
Load Resistance	50 (Vs-12) ohms	50 (Vs-12) ohms			
Settling Time	<15 sec	<15 sec			
Electrical Isolation(Case)	>10 ⁸ ohm	>10 ⁸ ohm			
Physical					
Size (Hex x Height)	1.00 in x 2.60 in	25.4 mm x 66.0 mm			
Weight	4.7 oz	131 gm			
Mounting Thread	1/4-28 UNF	Not Applicable			
Mounting Torque	3 to 5 ft-lb	4 to 7 N-m			
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			
Electrical Connection Position	Top	Top			
Electrical Connections(Pin A)	Vibration, 4-20 mA Pos.	Vibration, 4-20 mA Pos.			
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.			
 [6]				SUPPLIED ACCESSORIES: Model 081A40 Mounting Stud (1) 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	
Entered: <i>LU</i>		Engineer: <i>[Signature]</i>	Sales: <i>Egy</i>	Approved: <i>NT</i>	Spec Number:
Date: <i>7-9-08</i>		Date: <i>7-8-08</i>	Date: <i>7-8-08</i>	Date: <i>7-8-08</i>	25712
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All specifications are at room temperature unless otherwise specified.
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