

Model Number TO640B61	4-20 MA OUTPUT VELOCITY SENSOR WITH TEMPERATURE	Revision: B ECN #: 48686
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	ENGLISH	SI	
Performance			
Measurement Range(Vibration)	0.0 to 1.0 in/sec pk	0.0 to 25.4 mm/s pk	[2]
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			
Excitation Voltage	12 to 30 VDC	12 to 30 VDC	
Settling Time	<15 sec	<15 sec	
Electrical Isolation(Case)	>10 ⁸ Ohm	>10 ⁸ Ohm	
Physical			
Size (Hex x Height)	1.00 in x 4.2 in	25.4 mm x 107 mm	
Weight(without cable)	4.7 oz	131 gm	
Mounting Thread	1/4-28 UNF	1/4-28 UNF	
Mounting Torque	3 to 5 ft-lb	4 to 7 Nm	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	4 Conductor Integral Armored Cable	4 Conductor Integral Armored Cable	
Electrical Connection Position	Top	Top	
Electrical Connections(Red)	Vibration, 4-20 mA Pos.	Vibration, 4-20 mA Pos.	
Electrical Connections(Black)	Vibration, 4-20 mA Neg.	Vibration, 4-20 mA Neg.	
Electrical Connections(White)	Temperature, 4-20 mA Pos.	Temperature, 4-20 mA Pos.	
Electrical Connections(Green)	Temperature, 4-20 mA Neg.	Temperature, 4-20 mA Neg.	
Cable Length	10 ft	3 m	
Cable Type	Polyurethane	Polyurethane	

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

M - Metric Mount
Supplied Accessory : Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1) replaces Model 081A40

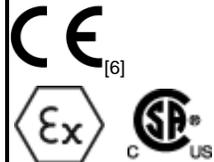
NOTES:

[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 or PS053 for details.

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: JM	Engineer: GD	Sales: MC	Approved: BAM	Spec Number:
Date: 9/17/2018	Date: 9/17/2018	Date: 9/17/2018	Date: 9/17/2018	28578



*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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