

Model Number 640B62		4-20 MA OUTPUT VELOCITY SENSOR			Revision: D ECN #: 45559	
Performance		ENGLISH		SI		
Measurement Range		0.0 to 2 in/sec pk		0.0 to 50.8 mm/s pk		
Output		4-20 mA		4-20 mA		
Frequency Range(± 10 %)		180 to 60,000 cpm		3 to 1 kHz		
Broadband Resolution		0.01 in/sec pk		0.26 mm/s pk		
Non-Linearity		± 1 %		± 1 %		
Environmental						
Temperature Range		-40 to 185 °F		-40 to 85 °C		
Electrical						
Excitation Voltage		12 to 30 VDC		12 to 30 VDC		
Settling Time(within 2% of value)		<15 sec		<15 sec		
Electrical Isolation(Case)		>10 ⁸ Ohm		>10 ⁸ Ohm		
Physical						
Size (Hex x Height)		1.0 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		No Metric Equivalent		
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		Integral Armored Cable		Integral Armored Cable		
Electrical Connection Position		Top		Top		
Electrical Connections(Red)		4-20 mA Pos (+)		4-20 mA Pos (+)		
Electrical Connections(Blue)		4-20 mA Neg (-)		4-20 mA Neg (-)		
Cable Length		10 ft		3.0 m		
Cable Type		Polyurethane		Polyurethane		
   [5]						
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.						
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						
Hazardous Area Approval		DIV II, CL I, GRPS A-D, ExnL, AExnA, IIC T4		DIV II, CL I, GRPS A-D, ExnL, AExnA, IIC T4		
Hazardous Area Approval		EEx ia IIC T4, -40°CsTas80°C, II 1 G		EEx ia IIC T4, -40°CsTas80°C, II 1 G		
Hazardous Area Approval		EEx nL IIC T4, -40°CsTas80° C, II 3 G		EEx nL IIC T4, -40°CsTas80° C, II 3 G		
Hazardous Area Approval		DIV I, CL I, II, III, GRPS A-G, Exia, AExia, IIC T4		DIV I, CL I, II, III, GRPS A-G, Exia, AExia, IIC T4		
HT - High temperature, extends normal operation temperatures						
Temperature Range		-40 to 257 °F		-40 to 125 °C		
M - Metric Mount						
Supplied Accessory : Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1) replaces Model 081A40						
RV - Buffered Analog Signal Output - 100 mV/g (±20%)						
Electrical Connector		4 Conductor Integral Armored Cable		4 Conductor Integral Armored Cable		
Electrical Connections(Red)		4-20 mA Pos (+)		4-20 mA Pos (+)		
Electrical Connections(Black)		4-20 mA Neg (-)		4-20 mA Neg (-)		
Electrical Connections(White)		Signal Output Pos		Signal Output Pos		
Electrical Connections(Green)		Signal Output Neg		Signal Output Neg		
TO - Temperature Output						
Measurement Range		-40 to 257 °F		-40 to 125 °C		
Electrical Connector		4 Conductor Integral Armored Cable		4 Conductor Integral Armored Cable		
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.		
VO - Buffered Analog Signal Output 100 mV/in/sec (±20%)						
Electrical Connections(Red)		4-20 mA Pos (+)		4-20 mA Pos (+)		
Electrical Connections(Black)		4-20 mA Neg (-)		4-20 mA Neg (-)		
Electrical Connections(White)		Signal Output Pos		Signal Output Pos		
Electrical Connections(Green)		Signal Output Neg		Signal Output Neg		
Electrical Connector		4 Conductor Integral Armored Cable		4 Conductor Integral Armored Cable		
NOTES:						
[1]Conversion Factor 1 in/sec = 0.0254 m/sec.						
[2]Current will fluctuate at frequencies below 5 Hz.						
[3]1Hz = 60 cpm (cycles per minute).						
[4]Typical.						
[5]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 (1)						
Entered: LK		Engineer: BAM		Sales: MC		
Date: 6/6/2016		Date: 6/6/2016		Date: 6/6/2016		
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