Model Number 641B10	4-20 MA OUTPUT VELOCITY SENSOR	Revision: B ECN #: 56897

Performance	ENGLISH	SI	
Measurement Range	0.0 to 0.5 in/sec rms	0.0 to 12.7 mm/s rms	[1][2]
Output	4-20 mA	4-20 mA	
Frequency Range(± 10 %)	600 to 60,000 cpm	10 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	
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 Cable	Integral 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	

CE

UK CA [6]

Intertek [7]

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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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

RV - Buffered Analog Signal Output - 100 mV/g (±20%)

Electrical Connector	3-Pin MIL-C-5015	3-Pin MIL-C-5015
Electrical Connections	4-20 mA Neg/Signal Output Neg	4-20 mA Neg/Signal Output Neg
Electrical Connections	Signal Output Pos	Signal Output Pos

NOTES:

[1]Conversion Factor 1 in/sec = 0.0254 m/sec.
[2]Maximum frequency for 1 in/sec rms output, 700 Hz.
[3]Current will fluctuate at frequencies below 5 Hz.
[4]1Hz = 60 cpm (cycles per minute).
[5]Typical.
[6]See PCB Declaration of Conformance PS039 or PS053 for details.
[7]See Model's "Instructions For Use" (IFU) for North American Conformity and Certification Statements.

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: ND	Engineer: gs	Sales: JL	Approved: BAM	Spec Number:
Date: 09/18/2026	Date: 09/18/2026	Date: 09/18/2026	Date: 09/18/2026	28149

IMI SENSORS
A PCB PIEZOTRONICS DIV.
3425 Walden Avenue, Depew, NY 14043

Phone: 800-959-4464
Fax: 716-684-3823
E-Mail: imi@pcb.com