Model Number	4-20 MA OUTPUT VELOCITY SENSOR	Revision: B
640B11		ECN #: 30338

Performance	ENGLISH	SI	
Measurement Range	0.0 to 1 in/sec pk	0.0 to 25.4 mm/s pk	[1]
Output	4-20 mA	4-20 mA	
Frequency Range(± 10 %)	180 to 60,000 cpm	3 to 1 kHz	[2][3]
Broadband Resolution	0.005 in/sec pk	0.13 mm/s pk	[4]
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	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	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	

[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.

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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

Hazardous Area Approval	EEx ia IIC T4, -40°C≤Ta≤80° C, II 1 G	EEx ia IIC T4, -40°C≤Ta≤80° C, II 1 G
Hazardous Area Approval	EEx nL IIC T4, -40°C≤Ta≤80° C, II 3 G	EEx nL IIC T4, -40°C≤Ta≤80° 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
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

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	Integral Cable	Integral 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

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: RLS	Engineer: LAB	Sales: EY	Approved: EB	Spec Number:
Date: 3/30/09	Date: 3/23/09	Date: 3/23/09	Date: 3/26/09	27447

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

Represented in India by
Structural Solutions Pvt Ltd. | Phone: 040 2322 2380 | Email: sales@stsols.com
#4th Floor, Sudheer Tapani Towers,Himayath Nagar, Hyderabad - 500 029