

	<u>ENGLISH</u>	<u>SI</u>	
<b>Performance</b>			
Measurement Range	0.0 to 1 in/sec rms	0 to 25.4 mm/s rms	[1]
Output	4-20 mA	4-20 mA	
Frequency Range(± 10 %)	600 to 60,000 cpm	10 to 1 kHz	[2][3]
Broadband Resolution	0.005 in/sec rms	0.13 mm/s rms	[4]
Non-Linearity	± 1 %	± 1 %	
<b>Environmental</b>			
Temperature Range	-40 to 185 °F	-40 to 85 °C	
<b>Electrical</b>			
Excitation Voltage	12 to 30 VDC	12 to 30 VDC	
Settling Time(within 2% of value)	<15 sec	<15 sec	
Electrical Isolation(Case)	>10 <sup>8</sup> Ohm	>10 <sup>8</sup> Ohm	
<b>Physical</b>			
Size (Hex x Height)	7/8 in x 1.41 in	22.2 mm x 35.8 mm	
Weight(without cable)	3.8 oz	108 gm	
Mounting Thread	1/4-28 UNF	1/4-28 UNF	[5][6]
Mounting Torque(Stud)	3 to 4 ft-lb	4.1 to 5.4 Nm	
Mounting Torque(hex nut)	2 to 3 ft-lb	2.7 to 4.1 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	Side	Side	
Cable Termination	Pigtail Ends	Pigtail Ends	
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	

**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°C≤Tas80°C, II 1 G	EEx ia IIC T4, -40°C≤Tas80°C, II 1 G
Hazardous Area Approval	EEx nL IIC T4, -40°C≤Tas80°C, C, II 3 G	EEx nL IIC T4, -40°C≤Tas80°C, 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

**M** - Metric Mount  
Supplied Accessory : Model M080A163A (1) replaces Model 080A162

**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]1Hz = 60 cpm (cycles per minute).  
 [3]Current will fluctuate at frequencies below 5 Hz.  
 [4]Typical value.  
 [5]1/8" hex Allen key required for English version, 3mm hex Allen key required for metric version.  
 [6]Stud torque must exceed sensor hex nut torque to ensure proper dismantling.  
 [7]See PCB Declaration of Conformance PS039 or PS053 for details.

**SUPPLIED ACCESSORIES:**

Model 080A162 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



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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Entered: AP	Engineer: DK	Sales: EGY	Approved: BAM	Spec Number:
Date: 10/10/2014	Date: 10/10/2014	Date: 10/10/2014	Date: 10/10/2014	<b>35266</b>

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