

Model Number
640B07

LOOP POWERED, CURRENT OUTPUT, INDUSTRIAL VIBRATION SENSOR

Revision: NR
ECN #: 34358

	<u>ENGLISH</u>	<u>SI</u>	
Performance			
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(± 3 dB)	90 to 60,000 cpm	1.5 to 1000 Hz	[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	
Load Resistance	50 (Vs-12) ohm	50 (Vs-12) ohm	
Settling Time(within 2% of value)	<30 sec	<30 sec	
Electrical Isolation(Case)	>10 ⁸ ohm	>10 ⁸ ohm	
Physical			
Size (Hex x Height)	1.0 in x 2.6 in	25.4 mm x 66 mm	
Weight	4.7 oz	131 gm	
Mounting Thread	1/4-28 UNF	No Metric Equivalent	
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	2-Pin MIL-C-5015	2-Pin MIL-C-5015	
Electrical Connection Position	Top	Top	
Electrical Connections(Pin A)	4-20 mA Pos (+)	4-20 mA Pos (+)	
Electrical Connections(Pin B)	4-20 mA Neg (-)	4-20 mA Neg (-)	

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, DIV II, CL I, GRPS A-D, ExnL, AExnA, IIC T4, AExnA, IIC T4, EEx ia IIC T4, -40°C≤Tas80°C, EEx ia IIC T4, -40°C≤Tas80°C, II 1 G, II 1 G, EEx nL IIC T4, -40°C≤Tas80°C, EEx nL IIC T4, -40°C≤Tas80°C, II 3 G, II 3 G, DIV I, CL I, II, III, GRPS A-G, DIV I, CL I, II, III, GRPS A-G, Exia, AExia, IIC T4, Exia, AExia, IIC T4

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

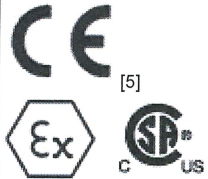
NOTES:

- [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-6 NIST traceable single axis amplitude response calibration from 10 Hz to upper +/- 3dB point. (1)

Entered: <i>ZH</i>	Engineer: <i>QSK</i>	Sales: <i>ASP</i>	Approved: <i>EB</i>	Spec Number:
Date: <i>11-4-10</i>	Date: <i>11-4-10</i>	Date: <i>11-4-10</i>	Date: <i>11-4-10</i>	48139



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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