Model Number 641B60

LOOP POWERED, CURRENT OUTPUT, INDUSTRIAL VIBRATION SENSOR

[1]

[2][3]

Revision: NR ECN #:

041860		
Performance	ENGLISH	SI
Measurement Range	0.0 to 0.5 in/s rms	0.0 to 12.7 mm/s rms
Output	4-20 mA	4-20 mA
Frequency Range (± 10 %)	600 to 60,000 cpm	10 to 1 kHz
Broadband Resolution	0.005 in/s rms	0.13 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	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 Armored Cable	Integral Armored Cable
Electrical Connection Position	Тор	Тор
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.

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 Armored Cable
Electrical Connections (Red) 4-20 mA Pos
Electrical Connections (Black) 4-20 mA Neg
Electrical Connections (White) Signal Output Pos
Electrical Connections (Green) Signal Output Neg
Electrical Connections (Green) Signal Output Neg
Electrical Connections (Green) Signal Output Neg

Integral Armored Cable

4-20 mA Pos

4-20 mA Neg

Signal Output Pos

Signal Output Pos

Signal Output Neg

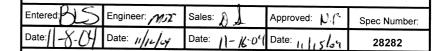
NOTES:

- [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] Stainless steel armor jacket over twisted shielded pair.
- [6] See PCB Declaration of Conformance PS039 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)





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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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