Model	Nu	mbe	e
640	0B1	0	

LOOP POWERED, CURRENT OUTPUT, INDUSTRIAL VIBRATION SENSOR

[1]

[2][3]

Revision: NR ECN #:

Performance	ENGLISH	SI
Measurement Range	0.0 to 0.5 in/s pk	0.0 to 12.7 mm/s pk
Output	4-20 mA	4-20 mA
Frequency Range (± 10 %)	180 to 60,000 cpm	3 to 1 kHz
Broadband Resolution	0.005 in/s pk	0.13 mm/s pk
Non-Linearity	± 1 %	± 1 %
Environmental		, ,
Temperature Range	-40 to 185 °F	-40 to 85 °C
Electrical		10 10 00 0
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		10 011111
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	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



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.

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%)

	3 (===)	
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 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:	Engineer: MIT	Sales: 6	Approved: N.	Spec Number:
Date 10-18-0	10/16/04	Date: 10 18/04	Date: 10 1 (64	28075



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