

LOOP POWERED, CURRENT OUTPUT, INDUSTRIAL VIBRATION SENSOR

Performance
Measurement Range
Output
Frequency Range ($\pm 10\%$)
Broadband Resolution
Non-Linearity
Environmental
Temperature Range
Electrical
Excitation Voltage
Load Resistance
Settling Time (within 2% of value)
Electrical Isolation (Case)
Physical
Size (Hex x Height)
Weight
Mounting Thread
Mounting Torque
Sensing Element
Sensing Geometry
Housing Material
Sealing
Electrical Connector
Electrical Connection Position
Electrical Connections (Pin A)
Electrical Connections (Pin B)

ENGLISH
0.0 to 10 g rms
4-20 mA
180 to 300,000 cpm
0.05 g rms
 $\pm 1\%$
-40 to 185 °F
12 to 30 VDC
50(Vs-12) ohm
<15 sec
>10⁸ ohm
1.0 in x 2.6 in
4.7 oz
1/4-28 UNF
3 to 5 ft-lb
Ceramic
Shear
Stainless Steel
Welded Hermetic
2-Pin MIL-C-5015
Top
4-20 mA Pos
4-20 mA Neg

SI
0.0 to 98.1 m/s² rms
4-20 mA
3 to 5 kHz
0.49 m/s² rms
 $\pm 1\%$
-40 to 85 °C
12 to 30 VDC
50(Vs-12) ohm
<15 sec
>10⁸ ohm
25.4 mm x 66 mm
131 gm
Not Applicable
4 to 7 N-m
Ceramic
Shear
Stainless Steel
Welded Hermetic
2-Pin MIL-C-5015
Top
4-20 mA Pos
4-20 mA Neg

[1]
[2][3]
[4]

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 ($\pm 20\%$)
Electrical Connector 3-Pin MIL-C-5015
Electrical Connections (Pin A) 4-20 mA Pos
Electrical Connections (Pin B) 4-20 mA Neg/Signal Output
Electrical Connections (Pin C) Signal Output Pos
Neg
Signal Output Pos

NOTES:
[1] Conversion Factor 1g = 9.81 m/s².
[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: **BJS** Engineer: **MDP** Sales: **EGY** Approved: **[Signature]** Spec Number:
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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

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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