

LOOP POWERED, CURRENT OUTPUT, INDUSTRIAL VIBRATION SENSOR

ENGLISH

Performance
 Measurement Range
 Output
 Frequency Range(± 3 dB)
 Bandwidth Resolution
 Non-Linearity
Environmental
 Temperature Range
Electrical
 Excitation Voltage
 Load Resistance
 Settling Time(within 2% of value)
 Electrical Isolation(Case)

SI
 0.0 to 49 m/s² rms
 4-20 mA
 3 to 10 kHz
 0.24 m/s² rms
 ± 1 %
 -40 to 85 °C
 12 to 30 VDC
 50(Vs-12) ohm
 <15 sec
 >10⁸ ohm

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)

[1]
 [2][3]
 [4]
 0.0 to 5 g rms
 4-20 mA
 180 to 600,000 cpm
 0.025 g rms
 ± 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 (-)

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 - ATEX or ATEX and CSA Hazardous Area Approval
 Hazardous Area Approval
 Hazardous Area Approval
 Hazardous Area Approval
 Hazardous Area Approval
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
 Electrical Connections(Pin A)
 Electrical Connections(Pin B)
 Electrical Connections(Pin C)

EEEx ia IIC T4, -40°C to +80°C, II 1 G
 EEEx nL IIC T4, -40°C to +80°C, II 1 G
 EEEx nL IIC T4, -40°C to +80°C, II 3 G
 DIV I, CL I, II, III, GRPS A-G, Exia, AExia, IIC T4
 DIV II, CL I, GRPS A-D, ExnL, DIV II, CL I, GRPS A-D, ExnL, AExnA, IIC T4

EEEx ia IIC T4, -40°C to +80°C, II 1 G
 EEEx nL IIC T4, -40°C to +80°C, II 1 G
 EEEx nL IIC T4, -40°C to +80°C, II 3 G
 DIV I, CL I, II, III, GRPS A-G, Exia, AExia, IIC T4
 DIV II, CL I, GRPS A-D, ExnL, DIV II, CL I, GRPS A-D, ExnL, AExnA, IIC T4
 3-Pin MIL-C-5015
 4-20 mA Pos (+)
 4-20 mA Neg/Signal Output
 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 or PS053 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)

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: <i>[Signature]</i> | Engineer: <i>MTE</i> | Sales: <i>[Signature]</i> | Approved: <i>NF</i> | Spec Number: |
| Date: 4-9-07 | Date: 4/9/07 | Date: 4/9/07 | Date: 4/9/07 | 27724 |



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