

Model Number
640B06

LOOP POWERED, CURRENT OUTPUT, INDUSTRIAL VIBRATION SENSOR

Revision: NR
ECN #: 34358

Performance

Measurement Range
Output
Frequency Range(± 3 dB)
Broadband Resolution
Non-Linearity

0.0 to 0.5 in/sec pk
4-20 mA
90 to 60,000 cpm
0.005 in/sec pk
± 1 %

SI
0.0 to 12.7 mm/s pk
4-20 mA
1.5 to 1 kHz
0.13 mm/s pk
± 1 %

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

Environmental

Temperature Range

-40 to 185 °F

-40 to 85 °C

Electrical

Excitation Voltage
Load Resistance
Settling Time(within 2% of value)
Electrical Isolation(Case)

12 to 30 VDC
50 (Vs-12) ohm
<30 sec
>10⁸ ohm

12 to 30 VDC
50 (Vs-12) ohm
<30 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)
(Pin B)

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 (-)

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

Entered: <i>JA</i>	Engineer: <i>JPC</i>	Sales: <i>JPP</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>	48134



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