

Model Number
HT641B01

LOOP POWERED, CURRENT OUTPUT, INDUSTRIAL VIBRATION SENSOR

Revision: B
ECN #: 54679

Performance

	ENGLISH	SI	
Measurement Range	0.0 to 1 in/sec rms	0.0 to 25.4 mm/s rms	[1]
Output	4-20 mA	4-20 mA	
Frequency Range(± 10 %)	600 to 60,000 cpm	10 to 1,000 Hz	[2][3][4]
Broadband Resolution	0.005 in/sec rms	0.13 mm/s rms	[5]
Non-Linearity	± 1 %	± 1 %	

Environmental

Temperature Range	-40 to 257 °F	-40 to 125 °C
Enclosure Rating	IP68	IP68

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 2.6 in	25.4 mm x 66 mm
Weight	4.7 oz	131 gm
Mounting Thread	1/4-28 UNF	No Metric Equivalent
Mounting Torque	3 to 5 ft-lb	4 to 7 Nm
Sensing Element	Ceramic	Ceramic
Sensing Geometry	Shear	Shear
Housing Material	Stainless Steel	Stainless Steel
Sealing	Welded Hermetic	Welded Hermetic
Electrical Connector	2-Pin MIL-C-5015	2-Pin MIL-C-5015
Electrical Connection Position	Top	Top
Electrical Connections(Pin A)	4-20 mA Pos (+)	4-20 mA Pos (+)
Electrical Connections(Pin B)	4-20 mA Neg (-)	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.

M - Metric Mount

Supplied Accessory: Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1)

RV - Buffered Analog Signal Output - 100 mV/g

(±20%)

Electrical Connections(Pin A)	4-20 mA Pos (+)	4-20 mA Pos (+)
Electrical Connections(Pin B)	4-20 mA Neg/Signal Output Neg	4-20 mA Neg/Signal Output Neg
Electrical Connections(Pin C)	Signal Output Pos	Signal Output Pos

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] The low frequency tolerance is within 10% of specified frequency

[5] Typical.

[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)

Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (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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