

Model Number
EX640B71D

LOOP POWERED, CURRENT OUTPUT, INDUSTRIAL VIBRATION SENSOR

Revision: B
ECN #: 52335

Performance	ENGLISH	SI	
Measurement Range	0.0 to 1 in/sec pk	0.0 to 25.4 mm/s pk	[1]
Output	4-20 mA	4-20 mA	
Frequency Range(± 3 dB)	180 to 60,000 cpm	3 to 1,000 Hz	[2][3]
Broadband Resolution	0.005 in/sec pk	0.13 mm/s pk	[4]
Non-Linearity	± 1 %	± 1 %	
Environmental			
Temperature Range	-40 to 176 °F	-40 to 80 °C	
Hazardous Area Approval	Ex d IIC T4 Gb, - 20°C ≤ Ta ≤ +80°C, II 2 G 20°C ≤ Ta ≤ +80°C, II 2 G	Ex d IIC T4 Gb, - -40°C ≤ Ta ≤ +80°C, II 2 G	
Enclosure Rating	IP66	IP66	
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)	3.85 in x 5.52 in	98 mm x 140 mm	
Weight	1.2 lb	544 gm	
Mounting Thread	1/4 NPT	No Metric Equivalent	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Electrical Connector	Removable Screw Terminals	Removable Screw Terminals	
Electrical Connection Position	Top	Top	
Electrical Connections(Tab 1)	4-20 mA Pos (+)	4-20 mA Pos (+)	
Electrical Connections(Tab 2)	4-20 mA Neg (-)	4-20 mA Neg (-)	
Screw Terminal Wire Size	12-24 AWG	3.0 - .2mm ²	

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.

RV - Buffered Analog Signal Output - 100 mV/g (±20%)

Electrical Connections(Tab 1)	4-20 mA Pos (+)	4-20 mA Pos (+)
Electrical Connections(Tab 2)	4-20 mA Neg (-)	4-20 mA Neg (-)
Electrical Connections(Tab 3)	Signal Output Pos	Signal Output Pos
Electrical Connections(Tab 4)	Signal Output Neg	Signal Output Neg

[6]

TO - Temperature Output

Temperature Output Range	-40 to +125 °C	-40 to +125 °C
Electrical Connections(Tab 1)	Vibration, 4-20 mA Pos.	Vibration, 4-20 mA Pos.
Electrical Connections(Tab 2)	Vibration, 4-20 mA Neg.	Vibration, 4-20 mA Neg.
Electrical Connections(Tab 3)	Temperature, 4-20 mA Pos.	Temperature, 4-20 mA Pos.
Electrical Connections(Tab 4)	Temperature, 4-20 mA Neg.	Temperature, 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.
- [6] Can not be combined with RV option.

SUPPLIED ACCESSORIES:

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: ND	Engineer: BAM	Sales: JL	Approved: NJF	Spec Number:
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