

Model Number 649A03	BEARING FAULT DETECTOR PLUS	Revision: F ECN #: 45941
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Performance	ENGLISH	SI	
Output(Loop power)	4-20 mA	4-20 mA	
Sampling Time	1 sec	1 sec	
Measurement Range(HPF 250 Hz)	0-2 to 0-50 g pk	0-2 to 0-50 g pk	[1][2]
Measurement Range(HPF 2500 Hz)	0-2 to 0-50 RMS	0-2 to 0-50 RMS	[1][2]
Compensated Peak(HPF 250 Hz)	1 to 16	1 to 16	
Crest Factor(HPF 250 Hz)	1 to 16	1 to 16	[1]
Crest Factor Plus(HPF 250 Hz)	1 to 16	1 to 16	[1]
Bearing Diameter	1.57 to 19.69 in	40 to 500 mm	
Bearing Rotation Speed	600 to 4800 RPM	10 to 80 Hz	
Linearity(Loop powered)	10 %	10 %	
Environmental			
Temperature Range	-40 to 212 °F	-40 to 100 °C	
Storage Temperature Range	-40 to 257 °F	-40 to 125 °C	
Electrical			
Excitation Voltage	15 to 30 VDC	15 to 30 VDC	
Load Resistance	50(Vs-15) Ohm	50(Vs-15) Ohm	
Electrical Isolation	>10^8 Ohm	>10^8 Ohm	
Physical			
Size (Height x Hex)	2.60 in x 1.25 in	66 mm x 32 mm	
Weight	5.7 oz	162 gm	[3]
Mounting Thread	1/4 - 28 UNF	1/4 - 28 UNF	
Mounting Torque	3 to 5 ft-lb	4 to 7 Nm	
Sensing Element	Piezoelectric Accelerometer	Piezoelectric Accelerometer	
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 (-)	
Overload Limit (Shock)	5000 g pk	49,050 m/s ² pk	

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.

CS - Canadian Standards Association Approved Intrinsically Safe

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

NOTES:

[1] Customer programmable parameters
 [2] With 0.1g Step
 [3] Typical.
 [4] See PCB Declaration of Conformance PS124 for details.

SUPPLIED ACCESSORIES:
 Model 081A41 Mounting stud 1/4-28 socket head set screw brass tip stainless steel 5/8" long (1)

Entered: LK	Engineer: NJF	Sales: MC	Approved: NJF	Spec Number:
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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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