



Model Number 682C05	BEARING FAULT DETECTOR			Revision: NR ECN #: 46949
Performance	ENGLISH	SI		OPTIONAL VERSIONS
Input Signal	100 mV/g	10.2 mV/(m/s ²)		Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.
Frequency Response(± 3 dB)(Overall Vibration)	10 to 1k Hz	10 to 1k Hz		
Frequency Response(± 3 dB)(Fault)	1k or 5k to 100 kHz	1k or 5k to 100 kHz	[1]	
Measurement Range(Fault Detector)	50 g	50 g		
Measurement Range(Vibration)	5/10/20 g	49.0/98.1/196.1 m/s ²	[2]	
Measurement Range(Velocity)	0.5/1/2 in/sec	12.7/25.4/50.8 mm/sec	[3]	
Output Range	4 to 20 mA	4 to 20 mA	[1][4]	
Sampling Time(± 15 %)	7 sec	7 sec		
Span(± 5 %)	16 mA	16 mA		
Control Interface				
Power LED	Green	Green		
Environmental				
Warm Up	<2 minutes	<2 minutes		
Temperature Range(Operating)	32 to 158 °F	0 to 70 °C		
Temperature Range(Storage)	-40 to 257 °F	-40 to 125 °C		
Electrical				
Supply Voltage	20 to 28 VDC	20 to 28 VDC		
Current Consumption	≤ 150 mA	≤ 150 mA		
Excitation Voltage(± 1 V)	24 VDC	24 VDC		
Constant Current Excitation(± 1 mA)	4 mA	4 mA		
Raw Vibration Output	+/-0.01 % of Input	+/-0.01 % of Input		
Load Resistance	500 Ohm	500 Ohm		
Physical				
Size (Width x Height x Depth)	0.9 in x 3.9 in x 4.5 in	22.5 mm x 99 mm x 114.5 mm		
Weight	<5 oz	<142 gm		
Housing Material	Polyamide	Polyamide		
Screw Terminal Wire Size	24-14 AWG	0.2 - 2.5 mm ²		
Electrical Connector(input/output)	Removable Screw Terminals	Removable Screw Terminals		
Electrical Connector(Output, Vibration)	BNC Jack	BNC Jack		
Din Rail Mount	1.38 in	35 mm		
 [5]				
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: LK	Engineer: gs	Sales: MC	Approved: BAM	Spec Number:
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Aufgrund laufender Weiterentwicklungen sind Änderungen der Spezifikationen vorbehalten. Alle Angaben vorbehaltlich Satz- und Druckfehler.

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