

Model Number 682B05	BEARING FAULT DETECTOR	Revision: B ECN #: 47113
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	<u>ENGLISH</u>	<u>SI</u>	
Performance			
Input Signal	100 mV/g	10.2 mV/(m/s ²)	
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	

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.

NOTES:

[1] Internal Dip switch selectable
 [2] Acceleration mode.
 [3] Velocity mode.
 [4] Output current voltage will fluctuate at frequencies below 5 Hz.

Entered: LK	Engineer: NJF	Sales: MC	Approved: NJF	Spec Number:
Date: 8/4/2017	Date: 8/4/2017	Date: 8/4/2017	Date: 8/4/2017	53379

*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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IMI SENSORS
 A PCB PIEZOTRONICS DIV.
 3425 Walden Avenue, Depew, NY 14043

Phone: 800-959-4464
Fax: 716-684-3823
E-Mail: imi@pcb.com