Model Number 640B00 Performance	LOOP POWERED CURRENT OUTPUT SENSOR			
	ENGLISH	SI		OPTIO
Measurement Range	0.0 to 0.5 in/s pk	0.0 to 12.7 mm/s pk	[1]	Optional versions have identical specifical
Output	4-20 mA	4-20 mA		except where noted belo
Frequency Range (± 10 %)	180 to 60,000 cpm	3 Hz to 1 kHz	[2][3]	
Broadband Resolution	0.005 in/s pk	0.13 mm/s pk	[4]	M - Metric Mount
Non-Linearity	± 1 %	± 1 %		Supplied Accessory : Model M081A61 M
Environmental				081A40
Temperature Range	-40 to 185 °F	-40 to 85 °C		BV Buffered Analog Cional Cutout 4
Electrical				RV - Buffered Analog Signal Output - 1
Excitation Voltage	12 to 30 VDC	12 to 30 VDC		Electrical Connector 3-F
Load Resistance	50 (Vs-12) ohms	50 (Vs-12) ohms		Electrical Connections (Pin A)
Settling Time (within 2% of value)	<15 sec	<15 sec		Electrical Connections (Pin B) 4-20 mA
Electrical Isolation (Case)	>10 <sup>8</sup> ohms	>10 <sup>8</sup> ohms		Floatrical Connections (Bin C) Sin
Physical				Electrical Connections (Pin C) Sig
Size (Hex x Height)	1.0 in x 2.6 in	25.4 mm x 66 mm		
Weight	4.7 oz	131 gm		NOTES:
Mounting Thread	1/4-28 UNF	Not Applicable		[1] Conversion Factor 1 in/sec = 0.0254 i
Mounting Torque	3 to 5 ft-lb	4 to 7 N-m		[2] Current will fluctuate at frequencies be
Sensing Element	Ceramic	Ceramic		[3] 1Hz = 60 cpm (cycles per minute).
Sensing Geometry	Shear	Shear		[4] Typical.
Housing Material	Stainless Steel	Stainless Steel		[5] See PCB Declaration of Conformance
Sealing	Welded Hermetic	Welded Hermetic		
Electrical Connector	2-Pin MIL-C-5015	2-Pin MIL-C-5015		SUPPLIED ACCESSORIES:
Electrical Connection Position	Тор	Тор		Model 081A40 Mounting Stud (1)
Electrical Connections (Pin A)	4-20 mA Pos	4-20 mA Pos		Model ICS-4 NIST-traceable single-axis a

4-20 mA Neg

4-20 mA Neg



Electrical Connections (Pin B)

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.

ICP® is a registered trademark of PCB Group, Inc.

### **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) replaces Model 081A40

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

3-Pin MIL-C-5015

3-Pin MIL-C-5015

Revision: NR

ECN#:

4-20 mA Pos

4-20 mA Pos

Electrical Connections (Pin B) 4-20 mA Neg/Signal Output

4-20 mA Neg/Signal Output

Neg

Neg

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).
- [5] See PCB Declaration of Conformance PS039 for details.

## 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)

Loop Powered Current Output Vibration Sensor

Sales: Approved: U.C Spec Number: Date: Date: 27201



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