

Model Number
653A01

LOOP POWERED, CURRENT OUTPUT, INDUSTRIAL DISPLACEMENT SENSOR

Revision: B
ECN #: 34833

	ENGLISH	SI	
Performance			
Measurement Range	2 to 40 mil pk - pk	0.05 to 1.02 mm pk - pk	[2]
Output	4-20 mA	4-20 mA	
Frequency Range(± 3 dB)	90 to 18,000 cpm	1.5 to 300 Hz	[3]
Non-Linearity	± 2 %	± 2 %	
Environmental			
Overload Limit	2500 g pk	2500 g pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Electrical			
Excitation Voltage	12 to 30 VDC	12 to 30 VDC	
Load Resistance	50(Vs-12) ohm	50(Vs-12) ohm	
Settling Time	60 sec	60 sec	[1]
Electrical Isolation(Case)	>10 ⁸ ohm	>10 ⁸ ohm	
Physical			
Size (Hex x Height)	1.25 in x 2.6 in	31.75 mm x 66 mm	
Weight	5.36 oz	152 gm	[1]
Mounting Thread	1/4-28 UNF	1/4-28 UNF	
Mounting Torque	3 to 5 ft-lb	4 to 7 N-m	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Flexural	Flexural	
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 (+)	
(Pin B)	4-20 mA Neg (-)	4-20 mA Neg (-)	

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
Optional Accessory : Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1) replaces Model 081A41

NOTES:
[1] Typical.
[2] Conversion Factor 1 mil = 0.0254 mm
[3] 1Hz = 60 cpm (cycles per minute).

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

Entered: <i>LH</i>	Engineer: <i>JAB</i>	Sales: <i>ESY</i>	Approved: <i>EB</i>	Spec Number:
Date: <i>1-17-11</i>	Date: <i>12-27-10</i>	Date: <i>12-27-10</i>	Date: <i>1-14-11</i>	43144

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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