#### Model Number 656A91

## **4-20 MA VELOCITY TRANSMITTER**

Revision: NR ECN #: 53239

Performance	ENGLISH	SI	
Measurement Range(± 5 %)	0.0 to 1 in/sec rms	0.0 to 25.4 mm/s rms	[1]
Output	4-20 mA	4-20 mA	
Frequency Range(± 10 %)	600 to 60,000 cpm	10 to 1,000 Hz [2]	
Frequency Range(± 3 dB)	210 to 120,000 cpm	3.5 to 2,000 Hz	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
Repeatability	± 2 %	± 2 %	
Environmental			
Temperature Range	-40 to 221 °F	-40 to 105 ℃	
Enclosure Rating	IP68	IP68	
Vibration Limit	250 g pk	2,452.5 m/s <sup>2</sup> pk	[3]
Shock Limit	2,500 g pk	24,525 m/s² pk	[3]
Electrical			
Excitation Voltage	12 to 30 VDC	12 to 30 VDC	
Load Resistance	50 (Vs-10) Ohms	50 (Vs-10) Ohms	
Settling Time	30 sec	30 sec	[4]
Electrical Isolation(Case)	> 10 <sup>8</sup> Ohm	> 10 <sup>8</sup> Ohm	
Physical			
Size (Hex x Height x Diameter)	15/16 in x 2.20 in x 1.0 in	15/16 in x 55.8 mm x 25.4 m	nm
Weight	4.2 oz	120 gm	
Mounting Thread	1/4-28 UNF	No Metric Equivalent	
Mounting Torque	2.0 ft-lb	2.71 Nm	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	316L Stainless Steel	316L Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	4-Pin, M12	4-Pin, M12	
Electrical Connection Position	Тор	Тор	

#### 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]Conversion Factor 1 in/sec = 0.0254 m/sec.

[2]1Hz = 60 cpm (cycles per minute).

[3] Conversion Factor  $1g = 9.81 \text{ m/s}^2$ .

[4]Typical

[5]See PCB Declaration of Conformance PS235 for Details

### **SUPPLIED ACCESSORIES:**

Model 081A40 Mounting Stud (1)

Model ICS-51 NIST Traceable single-point amplitude response calibration at 0 excitation and one at 6,000 cpm (100Hz) for 4-20 mA output vibration sensor (1)

Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1)

Entered: ND	Engineer: gs	Sales: JL	Approved: BAM	Spec Number:
Date: 12/08/2022	Date: 12/08/2022	Date: 12/08/2022	Date: 12/08/2022	77100



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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.