

Model Number
656A92

4-20 MA VELOCITY TRANSMITTER

Revision: NR
ECN #: 53239

Performance

| | ENGLISH | SI | |
|--------------------------|---------------------|----------------------|-----|
| Measurement Range(± 5 %) | 0.0 to 2 in/sec rms | 0.0 to 50.8 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 °C | |
| Enclosure Rating | IP68 | IP68 | |
| Vibration Limit | 250 g pk | 2,452.5 m/s ² pk | [3] |
| Shock Limit | 2,500 g pk | 24,525 m/s ² 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 ⁸ Ohm | > 10 ⁸ 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 mm | |
| 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 | Top | Top | |

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 m/s².
- [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: |
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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.