Model Number 655A90

4-20 MA VELOCITY TRANSMITTER

Revision: NR ECN #: 53239

| Performance | ENGLISH | SI | |
|--------------------------------|-----------------------------|-----------------------------|-----|
| Measurement Range(± 5 %) | 0.0 to 0.5 in/sec pk | 0.0 to 12.7 mm/s pk | [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 ² 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 ⁸ Ohm | > 10 ⁸ Ohm | |
| Physical | | 10 01 | |
| 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 n | 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: 12/07/2022 | Date: 12/07/2022 | Date: 12/07/2022 | Date: 12/07/2022 | 77096 |



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CE_[5]

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.