



| Model Number 113B28 | ICP® PRESSURE SENSOR | | Revision: F ECN #: 53357 | |
|---|--|--|---|--------------|
| Performance Measurement Range(for ±5V output) Useful Overage(for ± 10V output) Sensitivity(± 15 %) Maximum Pressure Resolution Resonant Frequency Rise Time Low Frequency Response(- 5 %) Non-Linearity | ENGLISH 50 psi 100 psi 100 mV/psi 1,000 psi 0.001 psi ≥ 500 kHz ≤ 1.0 µ sec 0.5 Hz ≤ 1.0 % FS | SI 344.7 kPa 689.4 kPa [1] 14.5 mV/kPa 6,895 kPa 0.007 kPa [2] ≥ 500 kHz ≤ 1.0 µ sec 0.5 Hz ≤ 1.0 % FS [3] | 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. [5] E - Emralon coating Coating Emralon Emralon Electrical Isolation 10 ⁸ Ohm 10 ⁸ Ohm Supplied Accessory: Model 065A08 Isolation ring 0.250" OD x 0.218" ID x 0.027" thk anodized aluminum (3) Supplied Accessory: Model 065A22 Isolation Seal, .250" OD x .218" ID x .015", Torlon or Vespel (3) [5][6] J - Ground Isolated Electrical Isolation(50 V) 10 ⁸ Ohm 10 ⁸ Ohm [5] N - Negative Output Polarity [5] S - Stainless Steel Diaphragm Diaphragm 316L Stainless Steel 316L Stainless Steel [5][7] W - Water Resistant Cable Supplied Accessory: Model 060A03 Clamp nut, 5/16-24-2A thd, 1/4" hex, stainless steel (1) [5][7] WM - Water Resistant Cable Supplied Accessory: Model 060A05 Clamp nut M7 x 0.75-6g thd (1) | |
| Environmental Acceleration Sensitivity Temperature Range(Operating) Temperature Coefficient of Sensitivity Maximum Flash Temperature Maximum Vibration Maximum Shock | ≤ 0.002 psi/g -100 to +275 °F ≤ 0.03 %/°F 3,000 °F 2,000 g pk 20,000 g pk | ≤ 0.0014 kPa/(m/s ²) -73 to +135 °C ≤ 0.054 %/°C 1,649 °C 19,614 m/s ² pk 196,140 m/s ² pk | | |
| Electrical Discharge Time Constant(at room temp) Excitation Voltage Constant Current Excitation Output Impedance Output Bias Voltage | ≥ 1.0 sec 22 to 30 VDC 2 to 20 mA < 100 Ohm 8 to 15 VDC | ≥ 1.0 sec 22 to 30 VDC 2 to 20 mA < 100 Ohm 8 to 15 VDC | | |
| Physical Sensing Geometry Sensing Element Housing Material Diaphragm Sealing Electrical Connector Weight(with clamp nut) | Compression Quartz 17-4 Stainless Steel Invar Welded Hermetic 10-32 Coaxial Jack 0.16 oz | Compression Quartz 17-4 Stainless Steel Invar Welded Hermetic 10-32 Coaxial Jack 4.5 gm | | |
|  [4] | NOTES: [1]For +10 volt output, minimum 26 VDC supply voltage required. Negative 10 volt output may be limited by output bias. [2]Typical. [3]Zero-based, least-squares, straight line method. [4]See PCB Declaration of Conformance PS023 for details. [5]For sensor mounted in thread adaptor, see adaptor installation drawing for supplied accessories and pressure limitations. [6]Used with optional mounting adaptor. [7]Clamp nut installed prior to cable attachment | | | |
| | SUPPLIED ACCESSORIES: Model 060A03 Clamp nut, 5/16-24-2A thd, 1/4" hex, stainless steel (1) Model 060A05 Clamp nut M7 x 0.75-6g thd (1) Model 065A02 Seal ring, sensor flush mount, 0.248" OD x 0.219" ID x 0.015" thk, brass (3) Model 065A05 Seal sleeve sensor recess mount 0.248" OD x 0.221" ID x 0.240" thk 17-4 (1) | | | |
| Entered: ND | Engineer: RPF | Sales: RWM | Approved: RPF | Spec Number: |
| Date: 12/01/2022 | Date: 12/01/2022 | Date: 12/01/2022 | Date: 12/01/2022 | 40624 |
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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.
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