| Model Number 112M362 | ICP® PRESSURE SENSOR | Revision: C<br>ECN #: 55076 |
|---|---|---|

| Performance | ENGLISH | SI | |
|---|---|---|---|
| Measurement Range(for ±5V output) | 50 psi | 345 kPa | |
| Useful Overrange(for ± 10V output) | 100 psi | 690 kPa | [1] |
| Sensitivity(± 15 %) | 100 mV/psi | 14.5 mV/kPa | |
| Maximum Pressure | 500 psi | 3,450 kPa | |
| Resolution | 0.001 psi | 0.007 kPa | [2] |
| Resonant Frequency | ≥ 230 kHz | ≥ 230 kHz | |
| Rise Time | ≤ 2.2 µ sec | ≤ 2.2 µ sec | |
| Low Frequency Response(- 5 %) | 0.50 Hz | 0.50 Hz | |
| Non-Linearity | ≤ 1.5 % FS | ≤ 1.5 % FS | [3] |
| **Environmental** | | | |
| Acceleration Sensitivity | 0.003 psi/g | 0.0021 kPa/(m/s$^2$) | [2] |
| Temperature Range(Operating) | -100 to +275 °F | -73 to +135 °C | |
| Temperature Coefficient of Sensitivity | ≤ 0.06 %/°F | ≤ 0.108 %/°C | |
| Maximum Flash Temperature | 3,000 °F | 1,650 °C | |
| Maximum Vibration | 2,000 g pk | 19,600 m/s$^2$ pk | |
| Maximum Shock | 20,000 g pk | 196,000 m/s$^2$ pk | |
| **Electrical** | | | |
| Discharge Time Constant | ≥ 1.0 sec | ≥ 1.0 sec | |
| Excitation Voltage | 22 to 30 VDC | 22 to 30 VDC | |
| Constant Current Excitation | 2 to 20 mA | 2 to 20 mA | |
| Output Impedance | < 200 Ohm | < 200 Ohm | |
| Output Bias Voltage | 8 to 14 VDC | 8 to 14 VDC | |
| **Physical** | | | |
| Sensing Geometry | Compression | Compression | |
| Sensing Element | Quartz | Quartz | |
| Housing Material | 17-4 Stainless Steel | 17-4 Stainless Steel | |
| Diaphragm | Invar | Invar | |
| Sealing | Welded Hermetic | Welded Hermetic | |
| Electrical Connector | 10-32 Coaxial Jack | 10-32 Coaxial Jack | |
| Weight | 0.17 oz | 4.9 gm | |
| Cable Termination | 10-32 Coaxial Jack | 10-32 Coaxial Jack | |
| Cable Type | 031 Twisted Pair | 031 Twisted Pair | |
| Cable Length | 16 in | 41 cm | |

CE

UK CA [4]

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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## 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]For +10 volt output, minimum 24 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.

## SUPPLIED ACCESSORIES:

Model 060M49 M7 X .75 CASTLE NUT (1)
Model 065A22 Isolation Seal, .250" OD x .218" ID x .015", Torlon or Vespel (2)
Model 070A05 Cable feed-thru connector (micro 10-32 jack to 10-32 jack) (1)
Model PCS-1AZ Sensitivity calibration at 100% and 10% of sensor range

| Entered: ND | Engineer: AJA | Sales: RWM | Approved: RPF | Spec Number: |
|---|---|---|---|---|
| Date: 08/14/2024 | Date: 08/14/2024 | Date: 08/14/2024 | Date: 08/14/2024 | 55523 |

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