

Model Number

132A31

ICP® PRESSURE SENSOR

Revision: P

ECN #: 20470

Performance

	ENGLISH	SI
Measurement Range	50 psi	345 kPa
Sensitivity (± 30 %)	140 mV/psi	20.3 mV/kPa
Maximum Pressure (Dynamic)	800 psi	5516 kPa
Resolution	1 mpsi	0.007 kPa
Resonant Frequency	≥ 1000 kHz	≥ 1000 kHz
Rise Time (Incident)	≤ 3 μ sec	≤ 3 μ sec
Rise Time (Reflected)	≤ 0.5 μ sec	≤ 0.5 μ sec
Low Frequency Response (-5 %)	11 kHz	11 kHz

Environmental

Temperature Range (Operating)	0 to +175 °F	-18 to +79 °C
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Electrical

Output Polarity (Positive Pressure)	Positive	Positive
Discharge Time Constant (at room temp)	≥ .000045 sec	≥ .000045 sec
Excitation Voltage	20 to 30 VDC	20 to 30 VDC
Constant Current Excitation	2 to 20 mA	2 to 20 mA
Output Impedance	≤ 100 ohms	≤ 100 ohms
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC

Physical

Sensing Element	Ceramic	Ceramic
Housing Material	Stainless Steel	Stainless Steel
Sealing	Epoxy	Epoxy
Electrical Connector	Integral Twisted Pair	Integral Twisted Pair
Weight (without clamp nut)	0.018 oz	0.52 gm

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.

M - Metric Mount

N - Negative Output Polarity

W - Water Resistant Cable

NOTES:

[1] Rise time in air at Mach 1

[2] Weight including cable.

SUPPLIED ACCESSORIES:

Model 060A28 Clamp Nut, 1/4-28 x 1/4" Hex (1)
Model 070B09 Solder adaptor (1)

ICP® Pressure Sensor Specifications

Entered: BLS	Engineer: BF	Sales: DPC	Approved: MEM	Spec Number:
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