

ASLT SERIES STANDARD PRESSURE & TEMPERATURE TRANSDUCER

The ASLT Series of combination pressure and temperature sensors have been designed for use in demanding motorsport and on-vehicle automotive testing applications. They are ideal for high precision data acquisition or control systems. These transducers can also be installed directly onto vehicles or as part of a test stand or dyno.

Offering a high level of reliability and endurance the ASLT is protected against the high vibration, shock and high temperatures found in motorsport. The modular construction and programmable amplifier provide a fast delivery time for standard and custom configurations.

Pressure ranges are available between 0-15 and 0-6000 psi in either Absolute, Gauge or Sealed Gauge reference.

The industry standard 3-wire electrical connections for the pressure and 2-wire for the temperature allow configuration with most common ECU's and data logging systems.

Sensors For Motorsport

Features

- Built-In Temp. Sensor
- 0-15 to 0-6000 psi
- Amplified Output
- Rugged Construction
- $\pm 0.5\%$ Accuracy

TECHNICAL SPECIFICATIONS

Pressure Reference	Absolute, Gauge and Sealed Gauge
Standard Pressure Ranges (psi)	15, 75, 150, 300, 500, 750, 1500, 3000 and 6000
Proof Pressure (overload)	150% of Range
Burst Pressure	>300% of Range
Accuracy	$\pm 0.5\%$ FS Combined Linearity & Hysteresis (CNLH)
Thermal Effects	Zero $\pm 0.02\%$ FS/ $^{\circ}$ F (Sensitivity $\pm 0.02\%$ of Reading / $^{\circ}$ F)
Output	Press: 0.5V to 4.5V ($\pm 0.5\%$) Temp: NTC, 2-Wire 10K Ω @25 $^{\circ}$ C or 2-Wire PT1000
Power Supply	5V (± 0.5 V) Ratiometric or 8-16Vdc
Operating Temperature Range	-5 $^{\circ}$ F to 275 $^{\circ}$ F (-20 $^{\circ}$ C to +135 $^{\circ}$ C)
Compensated Temperature Range	32 $^{\circ}$ F to 250 $^{\circ}$ F (0 $^{\circ}$ C to +125 $^{\circ}$ C)
Construction	Alumina, EPDM, Stainless Steel and Viton
Electrical Connection	20" 26AWG, 55Spec Wire + DR25 Sleeve
Process Connection	Please see Part Number Configurator - page 2
Protection Class	IP67
EMC Protection & Vibration	EN E50082-1 and Mil-Std-810C, Curve L, 20G
Weight	1.9oz (Including Cable)
Options	Cable Spec, Connector Fitted, Thread Size & Labelling

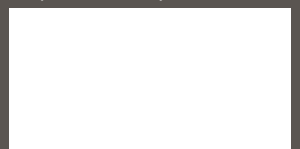
Applications

- Coolant
- Brakes
- Water
- Boost
- Fuel
- Oil

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Represented by:



PMC/KA Sensors adopts a continuous development program which sometimes necessitates specification changes without notice

PART NUMBER CONFIGURATOR

Pressure Reference

Pressure Range

Supply Voltage

Accuracy (CNLH)

Accuracy (Thermal Shift)

Electrical Connection

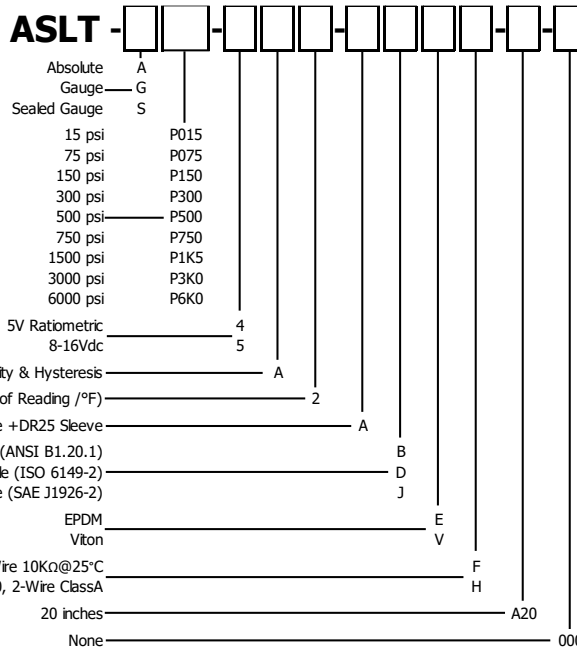
Process Connection

O-Ring Material (Internal)

Temperature Sensor Type

Cable Length

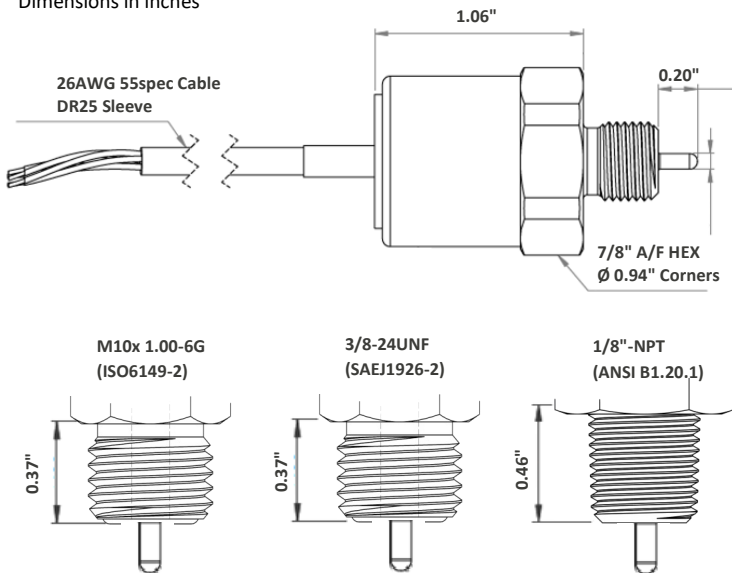
Special Code



The KA configuration tool is used to specify a standard KA Sensor, other options are available.

MECHANICAL DETAILS

Dimensions in inches



ELECTRICAL DETAILS

+Ve Supply	0V Supply	Output (P)	Output (T)	Output (T)
Red	Black	White	Blue	Green

	NTC10KΩ	PT1000
Temp °F	Output Ω	Output Ω
-25	120370.00	882.200
-5	71668.00	921.600
15	44087.00	960.900
32	27936.00	1000.000
50	18187.00	1039.000
70	12136.00	1077.900
75	10000.00	1097.300
85	8284.50	1116.700
105	5774.20	1155.400
125	4120.60	1194.000
140	2967.30	1232.400
160	2181.70	1270.800
175	1628.80	1309.000
195	1233.50	1347.100
215	946.59	1385.100
230	735.47	1422.900
250	578.10	1460.700
265	459.36	1498.300
285	368.75	1535.800
300	298.86	1573.300

Sense
Analyze
Control

Sensors For:

- Temperature
- Acceleration
- Pressure
- Position
- Torque
- Speed
- Angle
- Force

Services For:

- Data Logging
- Telemetry
- Controls
- Wiring

Contact Us

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