ka sensors
SENSE | ANALYZE | CONTROL
a bf1systems company

ASL Series Standard Pressure Transducer

The ASL series of Standard pressure transducers have been designed for the detection of fluid and air pressures in demanding motorsport and on-vehicle automotive applications.

These are ideal for high precision data acquisition or control systems. The transducers can be installed directly onto vehicles or as part of a test stand or dyno.

They offer a high level of reliability and endurance, and are protected against the high vibration, shock and temperatures found in motorsport.

The modular construction and programmable amplifier provide a large stock available of standard parts for fast delivery. Pressure ranges are available between 30 to 3000 psi with either Sealed Gauge, Gauge or Absolute reference, with an optional pressure port snubber to assist with filtering pressure spikes.

Industry standard 3-wire electrical connections allow configuration with most common ECU's and data logging systems. The ASL series are race proven in many formula around the world and offer a reliable and cost effective solution for professional engineers.

Technical Specifications

Pressure Reference	Sealed gauge, Absolute and Gauge
Standard Pressure Ranges (psi)	30, 150, 500, 1500, and 3000
Proof Pressure (overload)	150% of range
Burst Pressure	>300% of range
Accuracy	±0.5% FS combined linearity & hysteresis (CNLH)
Thermal Effects	Zero ±0.02% FS/°F (Sensitivity ±0.02% of reading /°F)
Output	0.5V to 4.5V (±0.5%)
Power Supply	5V - 40Vdc (Less than 20mA consumption)
Operating Temperature Range	-5°F to 275°F (-20°C to +135°C)
Compensated Temperature Range	32°F to 250°F (0°C to +125°C)
Construction	Stainless Steel with either EPDM or Viton internal O-rings
Electrical Connection	20", 26AWG FEP insulated shielded cable
Process Connection	Please see Part Number Configurator - Page 2
Protection Class	IP67
EMC Protection & Vibration	EN 50082-1 and Mil-Std-810C, curve L, 20G
Weight	1.2oz

Sensors For Motorsport

Features

- Compact Design
- 30 to 3000 psi
- Amplified Output
- Optional Snubber
- ±0.5% Accuracy

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

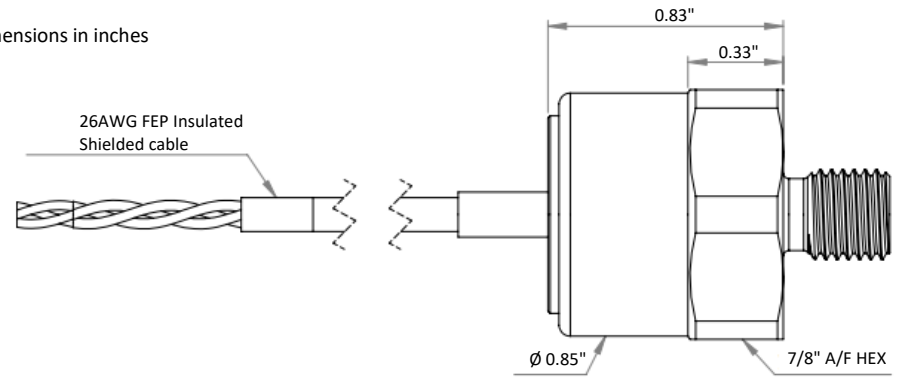
ASL - [ ] [ ] - [ ] [ ] - [ ] - [ ]

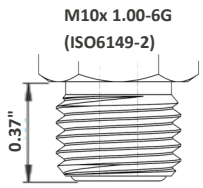
Pressure Reference	Absolute	A	
	Gauge	G	
	Sealed Gauge	S	
Pressure Range	30 psi		P030
	150 psi		P150
	500 psi		P500
	750 psi		P750
	1500 psi		P1K5
	3000 psi		P3K0
Process Connection	3/8 Inch 24 UNF Dash 3 (SAE J514)		A
	1/8 Inch NPT Male (ANSI B1.20.1)		B
	M10 x 1 Male (ISO 6149-2)		D
O-Ring Material (Internal)	EPDM		E
	Viton		V
Special Code 1	None		000
	Snubber in Pressure Port		399

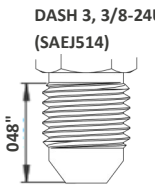
The KA configuration tool is used to specify a standard KA Sensor, other options are available.

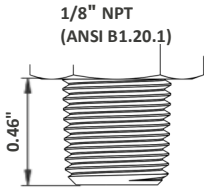
Mechanical Details

Dimensions in inches









Electrical Details

+Ve Supply	0V Supply	Signal
Red	Black	White

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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