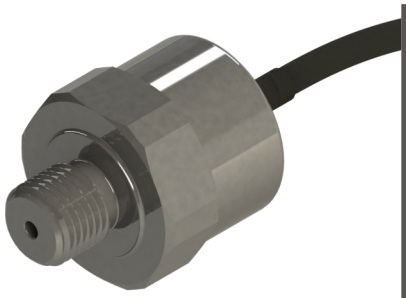
ka sensors
SENSE | ANALYZE | CONTROL

ASL Series Standard Pressure Transducer



The ASL series of general purpose 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 fast delivery time for standard and custom configurations. Pressure ranges are available between 0-15 and 0-6000 psi with either Sealed Gauge, Gauge or Absolute reference.

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)	15, 75, 150, 300, 500, 750, 1500, 3000 and 6000
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
Power Supply	5V (±0.5V) Ratiometric or 8-16Vdc
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	Alumina, EPDM, Stainless Steel and Viton
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
Options	Cable Spec, Connector Fitted, Thread Size & Labelling

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

Sensors For Motorsport

Features

- Compact Design
- 0-15 to 0-6000 psi
- Amplified Output
- 5V or 8-16Vdc supply
- ±0.5% Accuracy

Applications

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

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Represented by:

Part Number Configurator

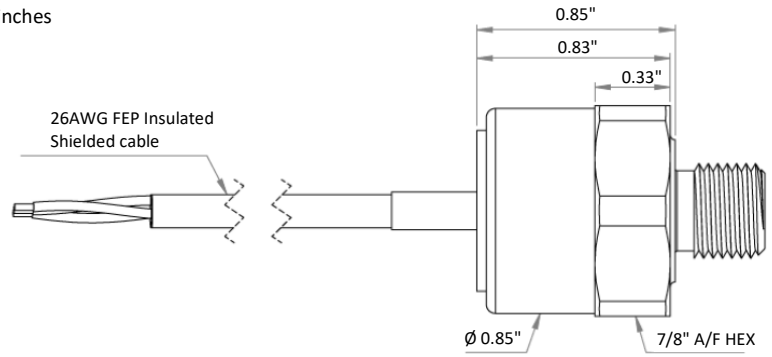
ASL - ☐☐-☐☐☐-☐☐☐-☐☐☐-☐-☐-☐

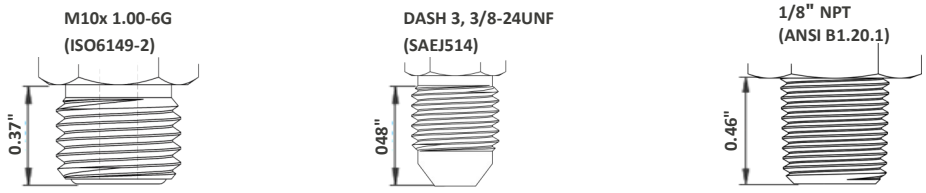
Pressure Reference	Absolute	A
	Gauge	G
	Sealed Gauge	S
Pressure Range	15 psi	P015
	75 psi	P075
	150 psi	P150
	300 psi	P300
	500 psi	P500
	750 psi	P750
	1500 psi	P1K5
	3000 psi	P3K0
	6000 psi	P6K0
	27.50-31.50 in of Hg	0315
Supply Voltage	5V Ratiometric	4
	8-16Vdc	5
Accuracy (CNLH)	±0.5% FS Combined Linearity & Hysteresis	A
Accuracy (Thermal Shift)	Zero ±0.02% FS/°F (Sensitivity ±0.02% of Reading /°F)	2
Electrical Connection	26AWG, FEP Insulated Shielded Cable	A
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
Cable Length	20 inches	A20
Special Code 1	None	000
Special Code 2	None	000

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	Blue	Yellow

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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