



ASLA SERIES LIGHTWEIGHT PRESSURE TRANSDUCER

The ASLA Series of Lightweight Standard Pressure Transducers have been designed for air box or boost pressures in demanding motorsport and automotive applications; ideal for high precision data acquisition or control systems. These transducers can also be installed directly onto vehicles, as part of a test stand or dyno.

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

Pressure ranges are available between 1 to 10 Bar in either Absolute, Gauge or Sealed Gauge reference.

Industry standard 3-wire electrical connections allow configuration with most common ECU's and data logging systems.

The ASLA Series are race proven in many formula around the world; offering a cost effective solutions for professional engineers.

TECHNICAL SPECIFICATIONS

| | |
|---|---|
| Pressure Reference | Absolute, Gauge and Sealed Gauge |
| Standard Pressure Ranges (Bar) | 1, 2, 4, 5, 10 (Compound Ranges Available) |
| Proof Pressure (Over range) | 150% of Range |
| Burst Pressure | >300% of Range |
| Accuracy | ±0.5% FS Combined Linearity & Hysteresis (CNLH) |
| Thermal Accuracy | Zero ±0.04% FS/°C (Sensitivity ±0.04% of Reading /°C) |
| Output | 0.5V to 4.5V (±0.5%) |
| Supply | 5V (±0.5V) Ratiometric or 8-16Vdc |
| Operating Temperature Range | -20°C to +135°C |
| Compensated Temperature Range | 0°C to +125°C |
| Construction | Alumina, Black Anodised Aluminium, FEP and Viton |
| Electrical Connection | 50cm 26AWG, FEP Insulated Screened Cable |
| Process Connection (Thread Size) | Please see Part Number Configurator |
| Protection Class | IP67 |
| EMC Protection & Vibration | EN E50082-1 and Mil-Std-810C, Curve L, 20G |
| Weight | 30g (Including Cable) |
| Options | Cable Spec, Connector Fitted, Thread Size & Labelling |

Ka Sensors adopts a continuous development program which sometimes necessitates specification changes without notice.

Sensors For Motorsport

Features

- Lightweight
- Compact Design
- 1 to 10 Bar Range
- Rugged Construction
- Amplified Output
- ±0.5% Accuracy

Applications

- Aerodynamics
- Barometric
- Airbox
- Boost
- Fuel
- Oil

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ASLA 10.18

PART NUMBER CONFIGURATOR

Pressure Reference

Pressure Range

Supply Voltage

Accuracy (CNLH)

Accuracy (Thermal Shift)

Electrical Connection

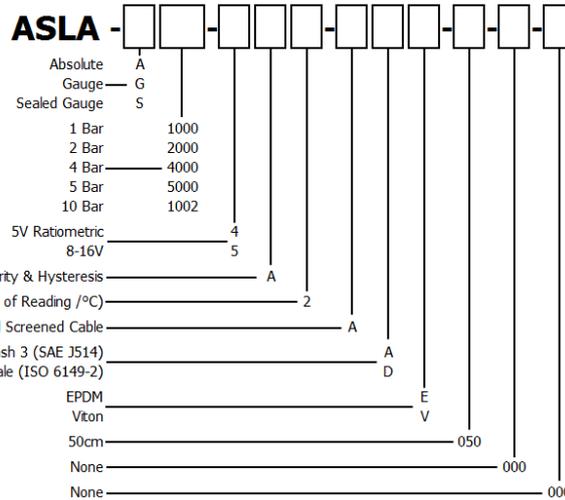
Process Connection

O-Ring Material (Internal)

Cable Length

Special Code 1

Special Code 2



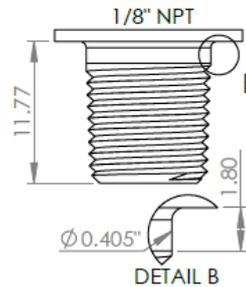
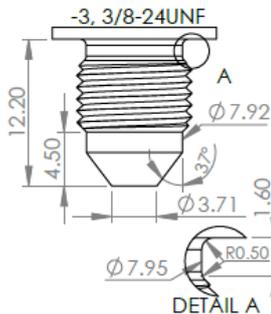
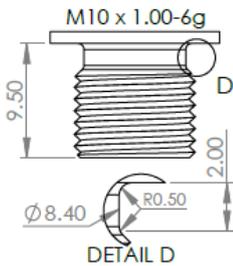
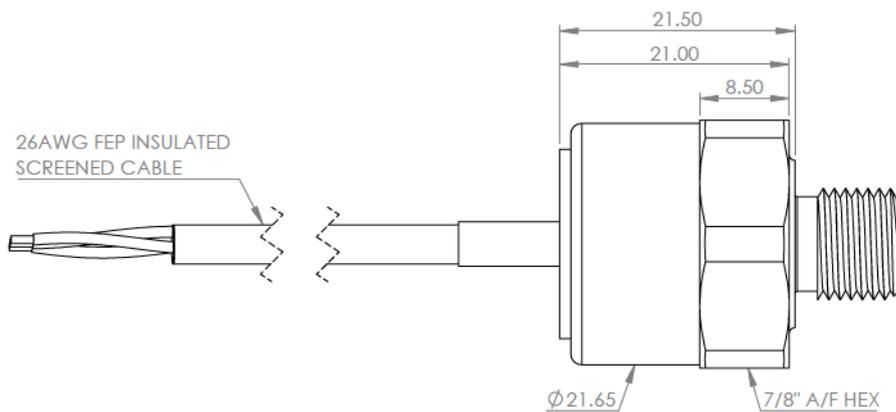
The KA configuration tool is used to specify a standard KA Sensor, other options are available.

Sense
Analyse
Control

Services for:

- Data Logging
- Telemetry
- Controls
- Wiring

MECHANICAL DETAILS



CONNECTION DETAILS

| +Ve Supply | 0V Supply | Signal |
|------------|-----------|--------|
| Red | Blue | Yellow |

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