

Sensors For Motorsport

KAP SERIES DIFFERENTIAL PRESSURE SENSOR

The KAP Series of cost effective High Performance Pressure Transducers have been designed for dynamic pressure measurements using a Pitot Tube 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 KAP is protected against the high vibration, shock and high temperatures found in motorsport. Also suitable for wet/wet installations.

With a modular construction and programmable amplifier, this provides a fast delivery time for standard and custom configurations. Pressure ranges are available between 25 to 75 mBar Differential.

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

The KAP Series are race proven and can be found in many race series around the world.

Please see our separate datasheet (KAPT) for details of the standard and custom Pitot Tubes that can be supplied.

Features

- Miniature Size
- 5V or 8-16V Supply
- 25 to 75 mBar Range
- Rugged Design
- Amplified Output

TECHNICAL SPECIFICATIONS

Pressure Reference	Differential
Standard Pressure Ranges (mBar)	25, 50, 75
Proof Pressure (Over range)	300% of Range
Burst Pressure	10x Range
Accuracy	±0.5% FS Combined Linearity & Hysteresis (CNLH)
Thermal Accuracy	Zero ±0.02% FS/°C (Sensitivity ±0.02% 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 +85°C
Compensated Temperature Range	0°C to +85°C
Construction	Anodised Aluminium and Stainless Steel
Electrical Connection	50cm 26AWG, 55Spec Wire + DR25 Sleeve
Process Connection	Barb Fitting (To Suit 4mm ID Tube)
Protection Class	IP65
EMC Protection & Vibration	EN E50082-1 and Mil-Std-810C, Curve L, 20G
Weight	Sensor: 30g, Pitot Tube: 60g
Options	Cable Spec, Connector Fitted and Labelling

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

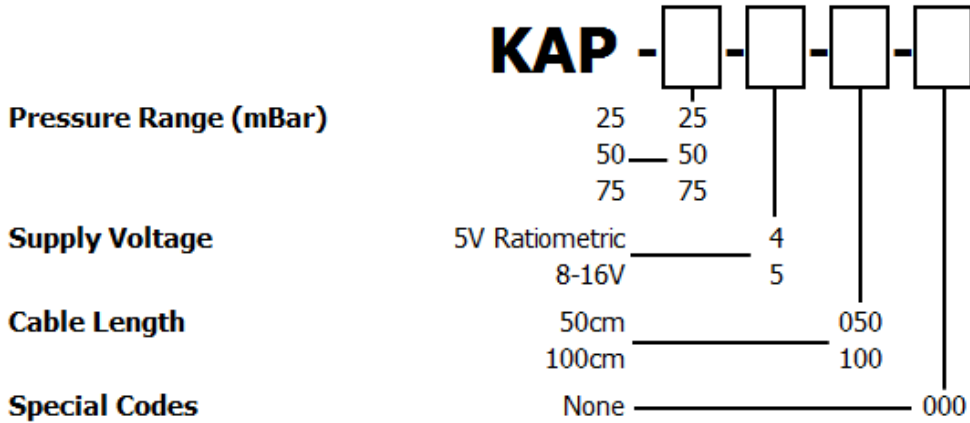
Applications

- Aerodynamics
- Air Speed

kasensors.com
sales@kasensors.com
+44(0)1476 568057

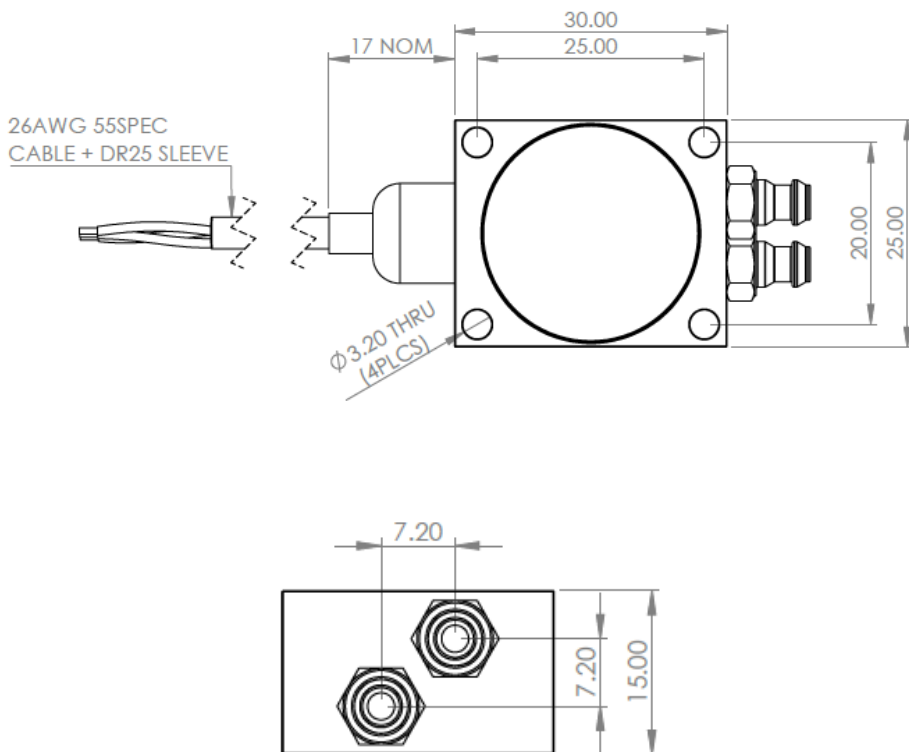
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PART NUMBER CONFIGURATOR



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

MECHANICAL DETAILS



CONNECTION DETAILS

+Ve Supply	0V Supply	Signal
Red	Black	White

*Sense
Analyse
Control*

Services for:

- Data Logging
- Telemetry
- Controls
- Wiring

Contact us

KA Sensors Ltd
 Unit 14 & 15
 The Old Malthouse
 Springfield Road
 Grantham
 Lincolnshire
 United Kingdom
 NG31 7BG

kasensors.com
 sales@kasensors.com
 +44(0)1476 568057

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