



## KAFT SERIES HIGH BANDWIDTH ACCELEROMETER

The KAFT Series of high bandwidth miniature accelerometers offer a compact and rugged solution for motorsport and on-vehicle automotive testing applications.

The sensors offer 1, 2 or 3 axis of measurement with integral signal conditioning to give a standard output of 0.5 to 4.5V which is ideal for most data acquisition systems.

Supply voltage can be 5 Vdc or 8-16 Vdc and low current consumption of less than 30mA.

With a bandwidth of 0 to 4000Hz (range dependent) these sensors are useful for applications within component and full vehicle testing and development programs.

## Sensors For Motorsport

### Features

- 0 - 4000Hz Bandwidth
- $\pm 5g$  to  $\pm 100g$
- 1, 2 or 3 Axis Outputs
- DC Response
- Built-in Amplifier

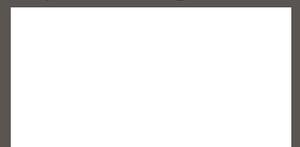
## TECHNICAL SPECIFICATIONS

<b>Range (g)</b>	Standard ranges: 5, 10, 20, 50, and 100
<b>Bandwidth</b>	Ranges 5, 10g: 0-1500Hz and Ranges 20, 50, 100g: 0-4000Hz
<b>Resonant Frequency</b>	5kHz for 5, 10g 20kHz for 20, 50 100g
<b>Safe Over Range</b>	$\pm 5,000g$
<b>Accuracy</b>	$< \pm 0.25\%$ FS Linearity
<b>Cross Axis Sensitivity</b>	$< \pm 2\%$ FS
<b>Thermal Effects</b>	Zero $\pm 0.0015\%$ FS/ $^{\circ}F$ (Sensitivity $\pm 0.0015\%$ of reading / $^{\circ}F$ )
<b>Output</b>	0.5V to 4.5V (Offset 2.5V)
<b>Power Supply</b>	5V ( $\pm 0.5V$ ) Ratiometric or 8-16Vdc
<b>Operating Temperature Range</b>	$-65^{\circ}F$ to $250^{\circ}F$ ( $-55^{\circ}C$ to $+125^{\circ}C$ )
<b>Compensated Temperature Range</b>	$32^{\circ}F$ to $212^{\circ}F$ ( $0^{\circ}C$ to $+100^{\circ}C$ )
<b>Noise</b>	$> 30\mu g/\sqrt{Hz}$
<b>Construction</b>	Anodized Aluminum
<b>Electrical Connection</b>	20", 55spec, 26AWG cable +DR25 sleeve
<b>Protection Class</b>	IP66
<b>EMC Protection</b>	EN 50082-1
<b>Weight</b>	1oz (Excluding cable)
<b>Options</b>	Connector fitted and part number labelling

### Applications

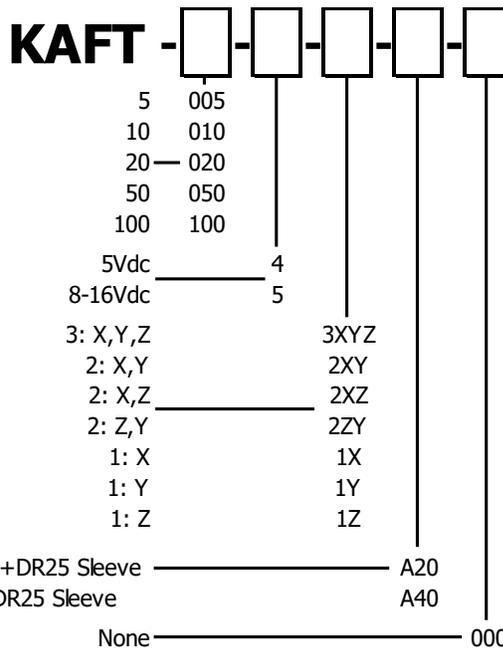
- Structural Analysis
- Aero Performance
- Suspension Test
- Launch Control
- Braking

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Represented by:



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

# PART NUMBER CONFIGURATOR



**Range ( $\pm g$ )**

**Supply**

**Number of Axis**

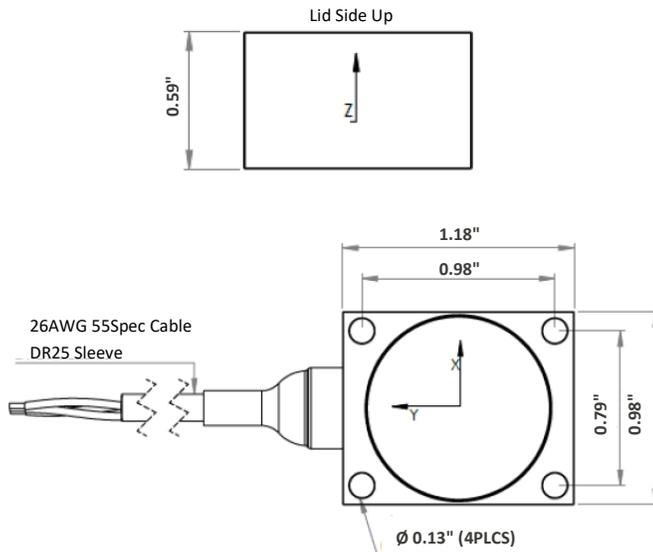
**Cable Length**

**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 X	Output Y	Output Z
Red	Black	White	Blue	Green

*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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