



Sense  
Measure  
Control

## Model KAA Accelerometer

- **Miniature Size**
- **$\pm 2g$  to  $\pm 200g$  Range**
- **Ruggedized Construction**
- **1 or 2 Axes**
- **DC Response**
- **Built-in Amplifier**



The KAA Series of miniature accelerometers offer a compact and robust solution for the motor sports and automotive testing industries.

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

Supply voltage can be 5V or 8-16V and low current consumption of less than 25mA.

With a bandwidth of zero to 1500Hz these sensors are useful for applications within component and full vehicle testing and development programs.

**Typical applications include: track mapping, cornering, braking, suspension test, aero performance, lean angle, structural analysis, launch control.**

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KA Sensors is a dynamic company with over 30 years of sensor and instrumentation experience in the motorsport industry. We offer a strong engineering led service to all of our customers, with speed of response and confidentiality being paramount.

Please contact us for further expert assistance with your application.

**Process Measurement & Controls, Inc.** - 11 Old Sugar Hollow Road – Danbury – CT 06810 - USA

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KA.A.1012U

## Specifications

- **Range: ±g**  
Standard ranges: 2, 5, 10, 20, 50, 100, 200
- **Bandwidth**  
Range 2-10g 0-1500Hz  
Range 20-200g 0-400Hz
- **Resonant Frequency**  
5 kHz
- **Safe Over Range**  
4000g
- **Accuracy**  
±0.3% FS linearity
- **Cross axis sensitivity**  
<2% FS (±5% for > 20g)
- **Thermal Effects**  
Zero: ±0.017% FS/°F  
Sensitivity: 0.017% of reading / °F
- **Output**  
0.5V to 4.5V (offset 2.5V)
- **Supply**  
5V (±0.5V) ratiometric or 8-16Vdc
- **Operating Temperature Range**  
-67°F to +257°F
- **Compensated Temperature Range**  
32°F to +212°F
- **Noise**  
>15mg/VHz
- **Construction**  
Anodised Aluminum,
- **Electrical Connection**  
20", 55spec, 26AWG Cable +DR25 Sleeve
- **Protection Class**  
IP66
- **EMC Protection**  
EN 50082-1
- **Weight**  
1.06oz (excluding cable)
- **Options**  
Connector fitted  
Part Number Labelling

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

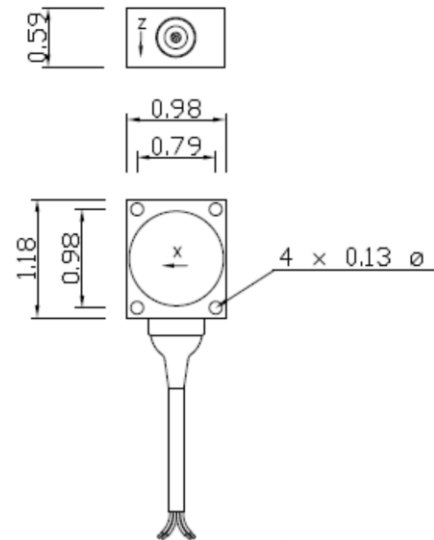
## How to Order

■ Please provide information as below:

	KAA	0 0 0 /	0 /	0 /	0 0 0
<b>Range ±g</b>	2	0 0 2			
	5	0 0 5			
	10	0 1 0			
	20	0 2 0			
	50	0 5 0			
	100	1 0 0			
	200	2 0 0			
<b>Supply</b>	5V		A		
	8-16V		B		
<b>Number of Axis</b>	1			1	
	2			2	
<b>Cable Length</b>	20"				0 2 0
	40"				0 4 0

## Standard Configuration

Dimensions in inches



## Other Products

- KA Sensors offer a wide range of products and services to the Motor Sport Industry. Please Contact us for additional information

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