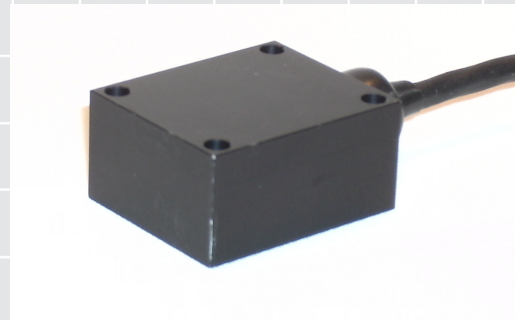




Sense  
Measure  
Control

## KAA Series Accelerometer

- **Miniature size**
- **1 or 2 Axes**
- **Ranges from  $\pm 2g$  to  $\pm 200g$**
- **Customised bandwidth**
- **Low cost**
- **Rugged construction**

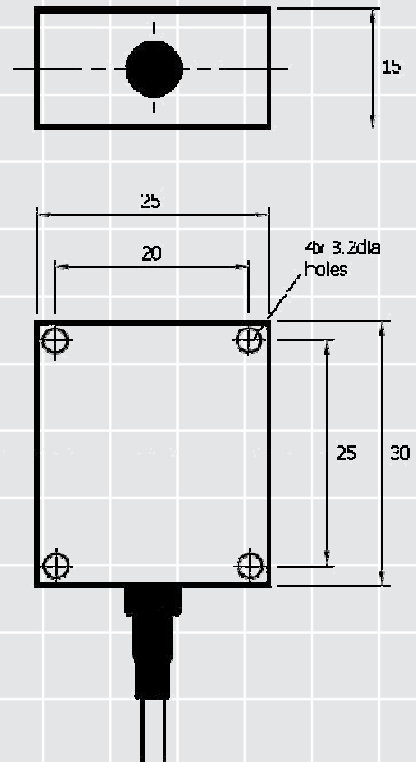


The KAA Series of miniature accelerometers offer a compact yet robust solution for the motor sports industry.

Measurements of true vehicle dynamics are possible with the ability to measure static (dc) and dynamic accelerations.

Applications include track mapping, cornering, braking, suspension test, aero performance, lean angle.

KA Sensors Ltd have over 15 years of experience with transducer applications in motor sport, we are therefore able to fully understand the complex requirements of racing and are available to assist with any application



Overrange	4,000g
Linearity	< $\pm 0.3\%$
Cross axis sens	< $\pm 2\%$ FS ( $\pm 5\%$ for >20g)
Resonant freq	5kHz
Operating temp	-55 to +125°C
Storage temp	-55 to +150°C
Compensated temp	-20 to +70°C
Temp effect on zero	< $\pm 0.03\%$ FS/°C
Temp effect on sens	< $\pm 0.02\%$ of reading/°C
Construction	Anodised aluminium
Cable	1 metre cable
Environmental	IP65
Weight	<30grammes without cable

Model	Range ( $\pm g$ )	Supply (V)	Offset (V) ( $\pm 1\%$ )	Sensitivity (V) ( $\pm 1\%$ )	Bandwidth (Hz) max ( $\pm 10\%$ )	Noise (mg/ $\sqrt{Hz}$ )
KAA-2g-s-hz	2	s = 5 (5V)	2.5	$\pm 2.0$	Hz=1500	0.3
KAA-5g-s-hz	5				Hz=1500	0.25
KAA-10g-s-hz	10				Hz=1500	0.32
KAA-20g-s-hz	20	s = 12 (8-16V)			Hz=400	3
KAA-50g-s-hz	50				Hz=400	3
KAA-100g-s-hz	100				Hz=400	10
KAA-200g-s-hz	200				Hz=400	15