

KG SERIES ANGULAR RATE SENSOR —GYRO



The KG Series of Angular Rate Sensor offers a compact and robust solution for the motorsports and automotive testing industries.

The sensor offers 1, 2 or 3 Axis of measurement with integral signal conditioning to give a standard signal of 0.5 to 4.5V; ideal for most data acquisition systems.

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

These sensors are useful for applications within component and full vehicle testing and development programs.

TECHNICAL SPECIFICATIONS

Range (°/Second)	±80 and ±200
Bandwidth	10Hz (-3dB)
Accuracy	±1.0% FS Linearity
Sensitivity	25mV/°/S for ±80 Range 10mV/°/S for ±200 Range
Cross Axis Sensitivity	±0.5%
Output	0.5V to 4.5V (Offset 2.5V)
Supply	5V (±0.5V) Ratiometric or 8-16Vdc
Operating Temperature Range	-40°C to +85°C
Compensated Temperature Range	0°C to +85°C
Linear Acceleration	<100g
Noise	1mV RMS
Construction	Anodised Aluminium
Electrical Connection	50cm, 55Spec, 26AWG Cable + DR25 Sleeve
Protection Class	IP65
EMC Protection	EN 50082-1
Weigh (Excluding Cable)	Single Axis: 30g, Dual Axis & Triax: 100g
Options	Connector Fitted and Part Number Labelling

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

Sensors For Motorsport

Features

- Miniature Size
- ±80° /S or ±200/S
- <±1.0% FS Linearity
- 1, 2 or 3 Axis
- DC Response
- Built-in Amplifier

Applications

- Vehicle Dynamics
- Cornering
- Slip
- Yaw Rate
- Pitch and Roll

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KG 10.18

PART NUMBER CONFIGURATOR

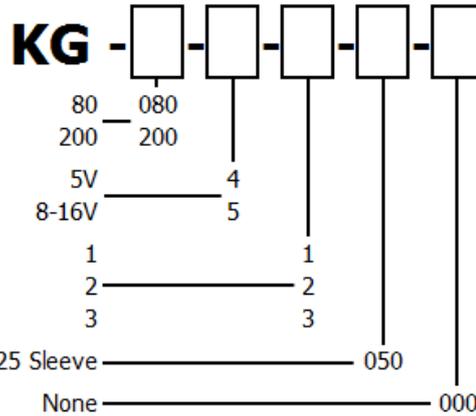
Range (\pm°/Sec)

Supply

Number of Axis

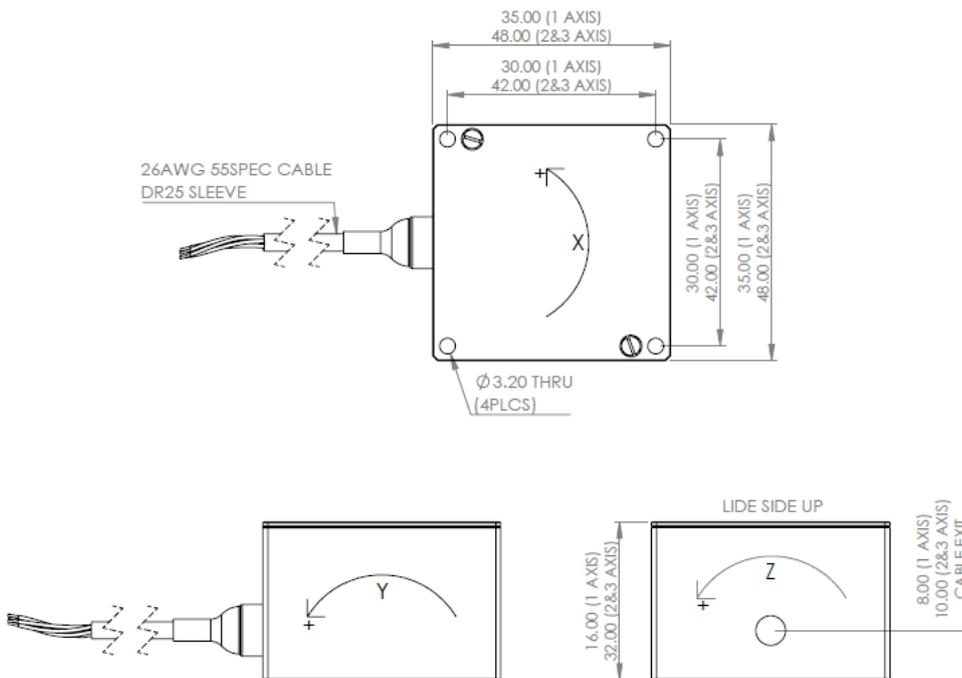
Cable Length

Special Code



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

MECHANICAL DETAILS



CONNECTION DETAILS

	+Ve Supply	0V Supply	Output (X)	Output (Y)	Output (Z)
Single Axis	Red	Black	White	N/A	N/A
Dual Axis	Red	Black	White	Blue	N/A
Tri Axis	Red	Black	White	Blue	Green

*Sense
Analyse
Control*

Services for:

- Data Logging
- Telemetry
- Controls
- Wiring

Contact us

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