

KATD SERIES DUAL AXIS LOW BANDWIDTH ACCELEROMETER



The KATD Series of Dual Axis Accelerometers are designed for true inertial measurements on race vehicles or automotive test vehicles.

The use of low bandwidth sensing elements ensures that high frequency vibration from transmission components or similar do not affect the measurements. Therefore allowing only lower frequency components to be detected and measured.

The sensors offer 1 or 2 axes of measurement with integral signal conditioning to give a standard signal of 0.5 to 4.5V; ideal for most data acquisition systems. Different ranges can be fitted to each axis. Customisation of the accelerometer is possible to suit complex applications.

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

TECHNICAL SPECIFICATIONS

Range (g)	Standard Ranges: 2, 5, 7.5 and 10
Bandwidth	20Hz
Resonant Frequency	5kHz
Safe Over Range	±20,000g
Accuracy	<±1% FS Linearity
Cross Axis Sensitivity	<±1% FS
Thermal Effects	Zero ±0.015% FS/°C (Sensitivity ±0.015% of Reading /°C)
Output	0.5V to 4.5V (Offset 2.5V)
Supply	5V (±0.5V) Ratiometric or 8-16Vdc
Operating Temperature Range	-20°C to +100°C
Compensated Temperature Range	20°C to +100°C
Noise	>1mg√Hz
Construction	Anodised Aluminium
Electrical Connection	50cm or 100cm, 55Spec, 26AWG Cable + DR25 Sleeve
Protection Class	IP66
EMC Protection	EN 50082-1
Weight	30g (Excluding Cable)
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
- ±2g to ±10g
- 1 or 2 Axis Output
- 0 to 20Hz Bandwidth
- ±20,000g Over Range
- Built-in Amplifier

Applications

- Aero Performance
- Launch Control
- Track Mapping
- Lean Angle
- Cornering
- Braking

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KATD 10.18

PART NUMBER CONFIGURATOR

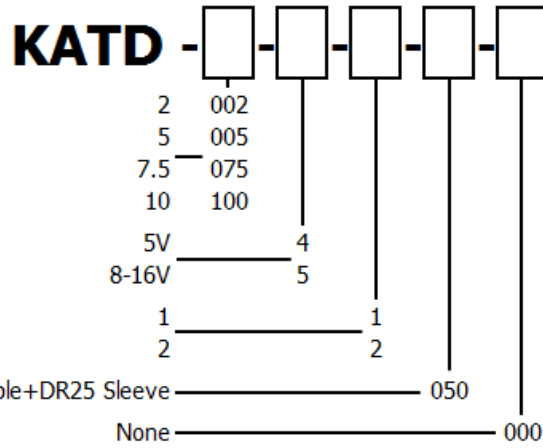
Range ($\pm g$)

Supply

Number of Axis

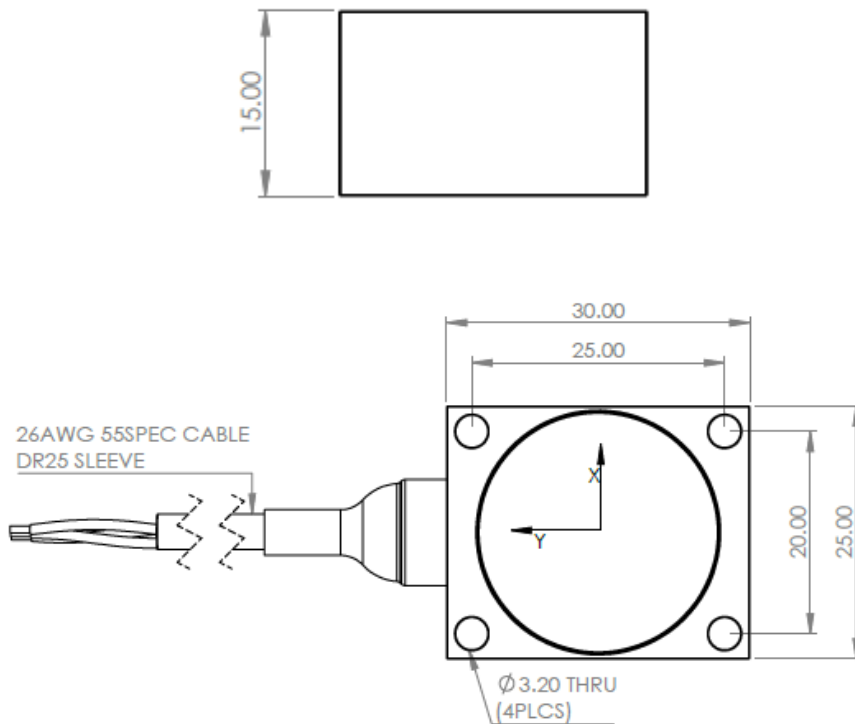
Cable Length 50cm, 55Spec, 26AWG Cable+DR25 Sleeve

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)
Single Axis	Red	Black	White	
Dual Axis	Red	Black	White	Blue

*Sense
Analyse
Control*

Services for:

- Data Logging
- Telemetry
- Controls
- Wiring

Contact us

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