



KAA triaxial accelerometer with aluminium mounting block and 3 channel interface box to MultiSystem 5070 / 8050.

*Sense
Measure
Control*

HT-KAA Accelerometer

The HT-KAA Series of miniature accelerometers offer a compact and robust solution for g force measurement in industrial and automotive testing industries.

The sensors offer 1, 2 or 3 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.

Features

- *Miniature Size*
- *±2g to ±100g*
- *1, 2 or 3 axis outputs*
- *DC response*
- *Rugged design*
- *Built-in Amplifier*

Technical Specifications

Range (g)	Standard ranges: 2, 5, 10, 20, 50 and 100
Bandwidth	Range 2-10g 0-1500Hz and range 20-200g 0-400Hz
Resonant Frequency	5 kHz
Safe Over Range	±4,000g
Accuracy	< ±0.3% FS linearity
Cross axis sensitivity Thermal	< ±2% FS (±5% for >20g)
Effects	Zero ±0.03% FS/°C (Sensitivity ±0.03% of reading / °C)
Output	0.5V to 4.5V (offset 2.5V)
Supply	5V (±0.5V) ratiometric or 8-16Vdc
Operating Temperature Range	-55°C to +125°C
Compensated Temperature	0°C to +100°C
Range Noise	> 15mg/√Hz
Construction	Anodised aluminium
Electrical Connection	50cm, 55spec, 26AWG cable +DR25 sleeve
Protection Class	IP66
EMC Protection	EN 50082-1
Weight	30g (Excluding cable)
Options	Triaxial connection box for Hydrotechnik instruments

Applications

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

Contact us

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Part Numbering

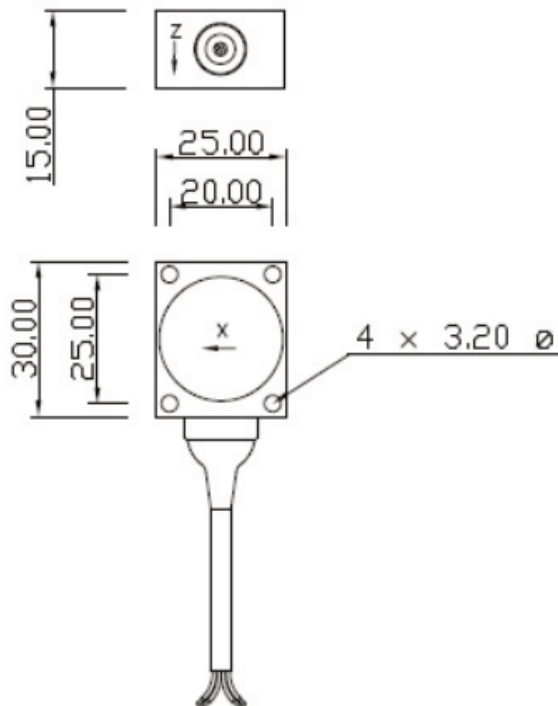
	HT-KAA/	0 0 0 /	0 /	0 /	0 0 0
Range ±g	2	0 0 2			
	5	0 0 5			
	10	0 1 0			
	20	0 2 0			
	50	0 5 0			
	100	1 0 0			
Supply	5V		4		
	8-16V		5		
Number of Axis	1		1		
	2		2		
	3		3		
Cable Length	50cm				0 5 0
	100cm				1 0 0

Ordering Example:
HT-KAA/010/5/3/100

HT-KAA triaxial accelerometer
±10g measuring range. 8-16Vdc
input. 0.5V to 4.5V output.
0...1500Hz bandwidth 1m cable.
Includes individual 3 channel axis
connection block with Hydrotechnik
5 pin connections.

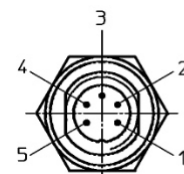
Supplied with M16 (5pin) DIN connector for use
with Hydrotechnik MultiSystem 5070 5070/8050
Dataloggers

Mechanical Details



Electrical Wiring

+VeSupply	0VSupply	OutputX/Y	OutputZ
Red	Black	White	Green



Pin Wiring (3 wire)
1. free
2. -Ub / Signal-
3. +Ub
4. Signal+
5. free