AEROSPACE

Accelerex® RBA500 Accelerometer

Frequency output

sensor

RBA500 Accelerometer

For a frequency output sensor, Honeywell produces the Accelerex® RBA500 accelerometer. It is primarily used in tactical navigation applications, including: tactical missile and 'smart bomb' programs. It's a good choice where frequency output, high-g, small size, low power, and light weight are necessary.

The acceleration is measured as a function of the frequency difference between two sets of vibrating quartz beams. The output of the Accelerex accelerometer is also thermally compensated through the use of an internal temperature sensor and Honeywell-supplied coefficients; when integrated over time, delta Velocity is directly provided to the user's system.

Robust design and quality assurance provides superior reliability.

Features

- Tactical navigation grade performance
- Low price
- Environmentally rugged
- Frequency output for direct interface to digital electronics
- High-g capability
- Very compact design
- Integral 2 fastener mounting flange
- Low power consumption
- Internal temperature sensor for thermal compensation

Specifications

Performance

• Input range	±70 g
• Bias	
- One-year repeatability	<4 mg
• Scale factor	80 Hz/g
- One-year repeatability	<450 ppm
• Axis misalignment	<12 mrad
- One-year repeatability	<400 µrad
• Resolution/Threshold	<1 µg
• Bandwidth	>400 Hz

Environmental

• Operating temperature range	-55 to +105°C
• Shock	250 g
• Vibration	20g peak sine, DC-2000Hz

Electrical

• Input voltage	+14 to +16 VDC
• Current	<5 mA
• Power	<75 mW @ +15 VDC

Physical

• Weight	12 grams
• Size	0.80 in. dia. x 0.42 in. high
• Case material	Stainless steel

Additional product specifications, outline drawings and block diagrams, and test data are available on request.

ISO-9001 Certification Since 1995

For more information, please call **888-206-1667** or FAX **425-883-2104**. Visit **www.inertialsensor.com**

Specifications are subject to change without notice.

Honeywell

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