

ACCELEREX RBA500 ACCELEROMETER

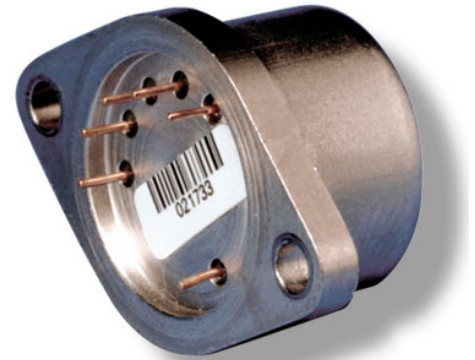
Digitally-compatible frequency output sensor

For a frequency output sensor, Honeywell produces the Accelerex RBA500 accelerometer. It is primarily used to supplement GPS navigation systems. It is a good choice where frequency output, high-g, small size, low power and light weight are necessary.

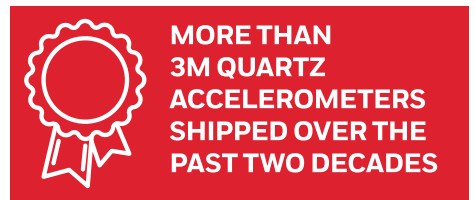
The acceleration is measured as the frequency difference between two vibrating quartz beams. The output of the RBA500 is thermally compensated through the use of an internal temperature sensor and Honeywell-supplied coefficients; when integrated over time, delta Velocity is directly provided to the user's system.

FEATURES

- Frequency output for direct interface to digital electronics
- Affordability without compromising reliability
- High-g capability
- Very compact design
- Integral 2 fastener mounting flange
- Low-power consumption
- Hermetically-sealed case
- Internal temperature sensor for thermal compensation
- Robust design and quality assurance provides superior reliability.

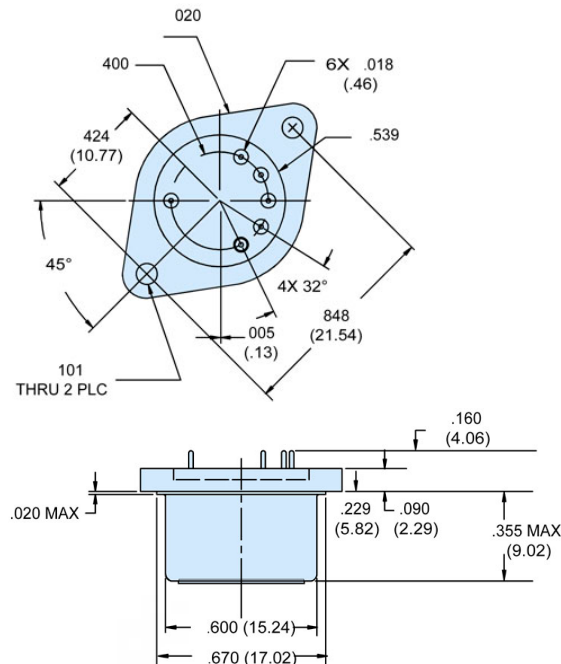


RBA500 with flange

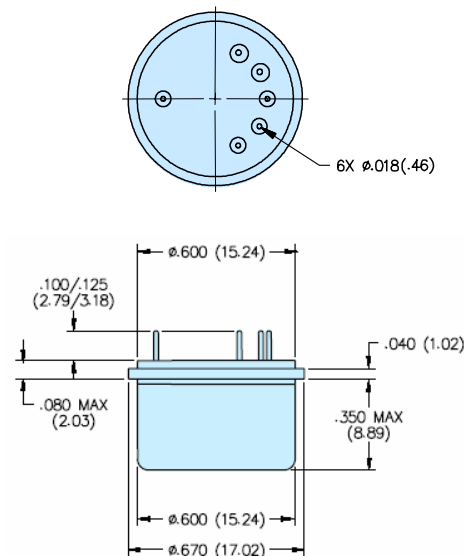


CONFIGURATION DRAWINGS

RBA500 WITH FLANGE



RBA500 WITHOUT FLANGE



PERFORMANCE CHARACTERISTICS	
Performance	
Input Range	±70 g
Bias – One year repeatability	<4 mg
Scale Factor – One year repeatability	80 Hz/g <450 ppm
Axis Misalignment – One year repeatability	<12 mrad <400 µrad
Resolution/Threshold	<1 µg
Bandwidth	>400 Hz
Environmental	
Operating Temperature Range	-55 to +105°C
Shock	250 g
Vibration	20g, peak, DC-2000 Hz
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

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Accelerometers exported from the United States must be done in accordance with the Export Administration Regulations (EAR) and/or the International Traffic in Arms Regulations (ITAR) as applicable.

For More Information

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