

Item	Item-No.	
BAM500	00020456-00	
Accessories		
M8 Mounting Stud	00020459-00	
Mounting plate	00020458-00	

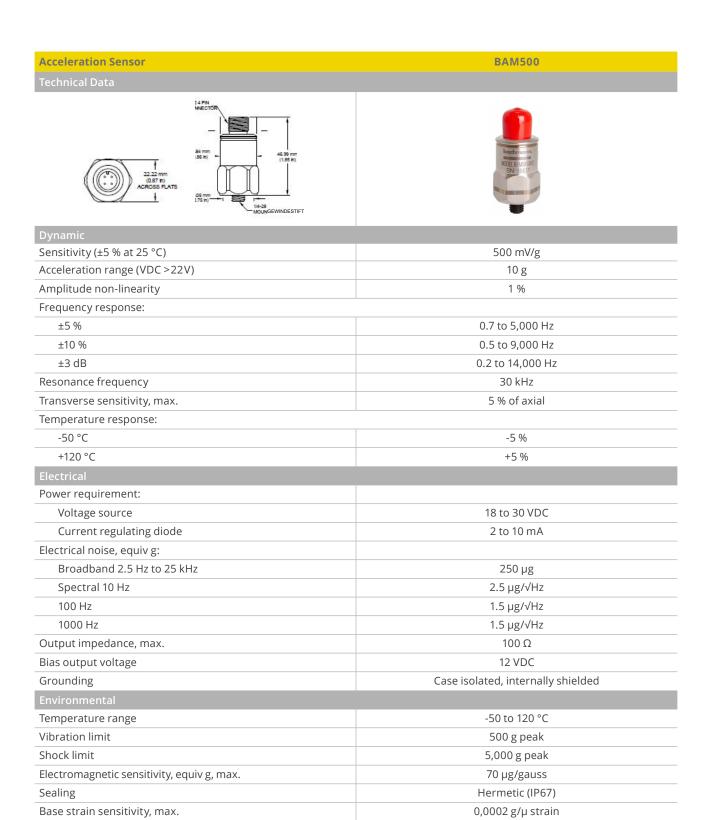
## BAM500 Acceleration Sensor

Bachmann offers piezoelectric accelerometers. Our sensors follow the tried and tested industry standard design for acceleration sensors, including an extremely robust housing, hermetic sealing and an insulated housing. This means that they are suitable for demanding ambient conditions.

The small size and simple mounting arrangement, via a threaded stud, make them suitable for a wide variety of measurement points. Straight or angled cable connectors are available for the standard 4-pin M12 connector to ensure optimum cable runs.

The built-in electronics of the piezoelectric acceleration sensors offer sensitivity down to frequencies below 0.5 Hz, and a flat response over a wide frequency range. Signals are delivered by the IEPE constant current method and are connected to (and driven from) the IEPE inputs of the AIC2xx modules.

The BAM500 sensor has a nominal sensitivity of 500 mV/g, which is useful to capture the small vibration acceleration seen from slowly rotating components, down to  $0.2\ Hz$ .



Acceleration Sensor	BAM100		
Physical			
Sensing element design	PZT, shear		
Weight	90 g		
Case material	316L stainless steel		
Output connector	4 pin, M12-style		
Mating connector	M12-style		
Recommended cabling	shielded, twisted pair		
Mounting	1/4-28 UNF tapped hole		
Connections  1 0 0 3  CONNECTOR KEY	Connector pin shell 1 2 3 4	Function Ground Signal ground N/C Power / signal N/C	

Note: Frequency response limits, spectral and noise values are typical Accessories supplied: 1/4-28 – M8 mounting stud