

AV0823B

Triaxial Vibration Sensor in IEPE Technology

■ Range	±12 g
■ Sensitivity	500 mV/g ±5 %
■ Frequency Range / Residual Noise (RMS)	0.07 ... 6000 Hz (-3dB) / <26 µg
■ Weight without cable	365 grams
■ Stud mounting	
■ Operating Temperature	-30 ... +90 °C



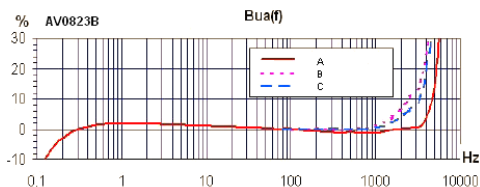
■ Features

- IEPE output
- With high sensitivity, low frequency limit and very low noise, particularly suited for sensitive measurements at buildings (DIN 4150) and wind turbines

■ Specifications

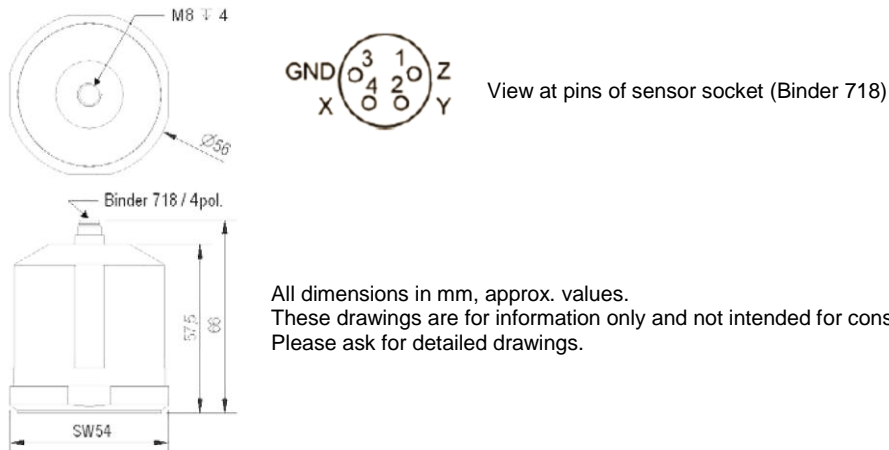
Dynamic specifications		
Sensitivity		500 mV/g ±5 %
Range		±12 g
Linear frequency range of Z axis		
	±5 %	0.17 ... 4000 Hz
	±10 %	0.13 ... 4800 Hz
	±3 dB	0.07 ... 6000 Hz
Resonant frequency (Z axis)		>9 kHz (+25 dB)
Transverse sensitivity		<5 %
Electrical specifications		
Constant current supply		2 ... 20 mA
Residual noise (RMS) broadband, 0.5 ... 20 kHz		<26 µg
Spectral noise	0.1 Hz	2 µg/√Hz
	1 Hz	0.8 µg/√Hz
	10 Hz	0.2 µg/√Hz
	100 Hz	0.08 µg/√Hz
Output impedance		<100 Ω (4 mA)
Bias output voltage		12 ... 14 V
Environmental specifications		
Operating temperature		-30 ... +90 °C
Temperature coefficient of sensitivity		-0.05 %/K
Temperature transient sensitivity		0.0005 ms ⁻² /K
Destruction limit		2000 g
Environmental sealing		IP67
Physical data		
Sensing element design		Shear design
Weight without cable		365 grams
Case material		Stainless steel
Mounting hole		M8
Output connector		Binder 718 (M8 x 1)

Typical Amplitude Response (Z Axis)



AV0823B +	
A	Mounting stud M8
B	AV0529 mounting pad with coupling ring
C	AV0508 magnetic base M8

Connections and Dimensions



All dimensions in mm, approx. values.
 These drawings are for information only and not intended for construction purpose.
 Please ask for detailed drawings.

Accessories

Connection accessories

AV088W-M10	IEPE cable with plug Binder 711, 10 m long
AV0034-M005	Adapter Binder to 3 BNC plugs

Mounting accessories

AV0508	Magnetic base M8
AV0529	Mounting pad with coupling ring for 360° turn incl. 10 hammer-set anchors for concrete / stone and tools
AV0629	Mounting pad (like AV0529) without coupling ring

Mounting on Walls or Ceilings

1. Attach the mounting pad, e.g. with hammer-set anchor and screw.
2. Mount the AV0823B using the coupling ring and adjust the X and Y axes.
- 3.



Due to continuous product development, ALTHEN and partners reserve the right to vary the foregoing details without prior notice.