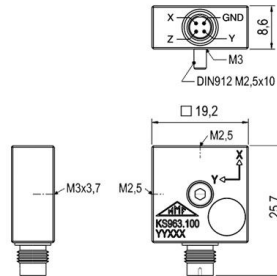


Triaxial Accelerometer

KS963B10

Properties

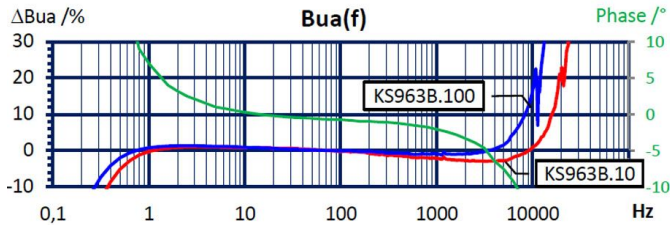
- High resolution
- High resolution
- Applicable up to 120 °C
- Includes electronic data sheet (TEDS; IEEE 1451.4; Template 25 w. DS2431)
- Low profile
- Through hole for mounting
- Two sensitivity versions (10 and 100 mV/g)



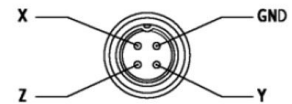
Piezo design	Shear design	
Output	IEPE	
Voltage sensitivity	10	mV/g
Sensitivity tolerance	20	%
Measurement range, pos./neg.	500	g
Destruction limit	8000	g
Transverse sensitivity	<5	%
Lower frequency limit (3 dB)	0,2	Hz
Upper frequency limit (3 dB)	18000	Hz
Lower frequency limit (10 %)	0,4	Hz
Upper frequency limit (10 %)	12000	Hz
Lower frequency limit (5 %)	0,6	Hz
Upper frequency limit (5 %)	10500	Hz
Resonant frequency	>40	kHz
Resonance amplitude	25	dB
Constant current supply	2 - 20	mA
Bias voltage at 4 mA	12 - 14,5	V
Output impedance	<100	Ω
Residual noise; wide band; RMS	<3000 (0,5 - 20000 Hz)	μg
Noise density 1 Hz	400	μg/√Hz
Noise density 10 Hz	100	μg/√Hz
Noise density 100 Hz	30	μg/√Hz
Noise density 1000 Hz	15	μg/√Hz
Operating temperature range	-40 - 120	°C
Temperature transient sensitivity	2	m/s ² /K
Magnetic field sensitivity	4,5	m/s ² /T
Weight without cable	8.5	g
Case material	Aluminum, Nickel coated	
Connector direction	axial/radial	
Connector	1/4-28 UNF male	
Mounting	M2.5 screw (Z); M3 thread (Z); M2.5 thread (X/Y)	



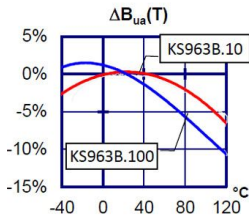
Typical Frequency Response



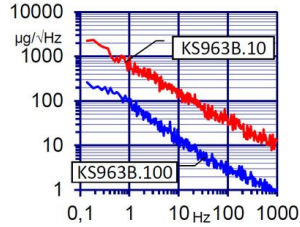
Contact Arrangement



Temperature Coefficient



Noise Characteristics



Connection Accessories

- 091-CMR-B711-3: Cable for IEPE sensors; 3 m; 1/4"-28; 4 pins to Binder 711; male; 120 °C; D2,1
- 034-B711f-BNC: Adapter Binder 711; 0,5 m; 4 pin; female. to 3 x BNC; male; 80 °C

Mounting Accessories

- 308: Rare earth magnetic base; M3; D22; 120 °C
- 329: Adhesive insulating flange; M3; D20; 110 °C
- 038: Instant adhesive
- 141B: Adapter for strap attachment on curved surfaces; M2.5
- 143B: Hand-held adapter for curved surfaces; M2.5

Delivery version with accessories kit KS963B10/01

- 091-CMR-B711-3: Cable for IEPE sensors; 3 m; 1/4"-28; 4 pins to Binder 711; male; 120 °C; D2,1
- 308: Rare earth magnetic base; M3; D22; 120 °C
- 329: Adhesive insulating flange; M3; D20; 110 °C
- 038: Instant adhesive
- 034-B711f-BNC: Adapter Binder 711; 0,5 m; 4 pin; female. to 3 x BNC; male; 80 °C

Notice:

The standard delivery includes an individual data sheet.

This is a non-accredited measurement/calibration and consequently not covered by EA MLA.

On request, we offer a DIN EN ISO/IEC 17025:2018 accredited calibration of the measurand acceleration in the measuring range 0.1 m/s² to 200 m/s².



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08.23

