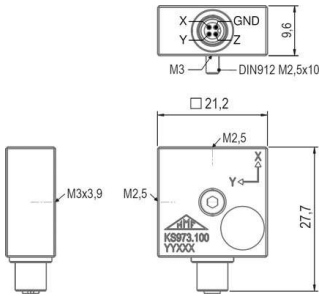
Triaxial Accelerometer

KS973.100

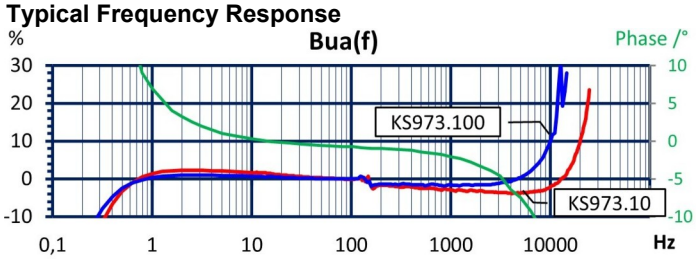
Properties

- IP code IP67
- High resolution
- Low temperature coefficient
- 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)

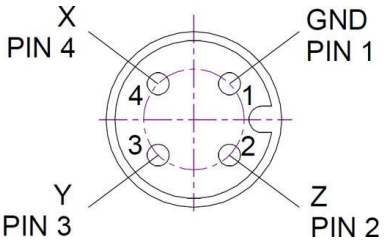


Piezo design	Shear design	
Output	IEPE	
Voltage sensitivity	100	mV/g
Sensitivity tolerance	20	%
Measurement range, pos./neg.	60	g
Destruction limit	8000	g
Transverse sensitivity	<5	%
Lower frequency limit (3 dB)	0,15	Hz
Upper frequency limit (3 dB)	10000	Hz
Lower frequency limit (10 %)	0,3	Hz
Upper frequency limit (10 %)	7000	Hz
Lower frequency limit (5 %)	0,45	Hz
Upper frequency limit (5 %)	5000	Hz
Resonant frequency	>25	kHz
Resonance amplitude	25	dB
Constant current supply	2 - 20	mA
Bias voltage at 4 mA	11 – 14,5	V
Output impedance	<100	Ω
Residual noise; wide band; RMS	<400 (0,5 - 20000 Hz)	µg
Noise density 1 Hz	100	µg/√Hz
Noise density 10 Hz	15	µg/√Hz
Noise density 100 Hz	4	µg/√Hz
Noise density 1000 Hz	1	µg/√Hz
Operating temperature range	-40 - 100	°C
Temperature transient sensitivity	0,2	m/s²/K
Magnetic field sensitivity	0,5	m/s²/T
Weight without cable	15	g
Case material	Aluminum, Nickel coated	
Connector direction	axial/radial	
Connector	Binder 707 plug	
Mounting	M2.5 screw (Z); M3 thread (Z); M2.5 thread (X/Y)	
IP code	IP67	

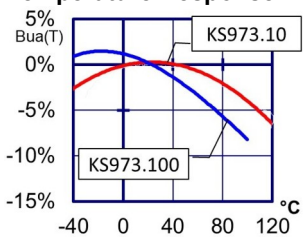
Typical Frequency Response



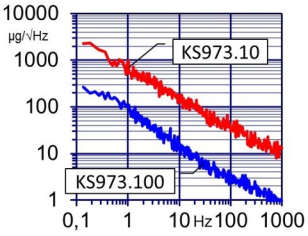
Contact Arrangement



Temperature Response



Noise Characteristics



Connection Accessories

- 092-B707-B711-5
- 034-B711f-BNC: IEPE cable adapter Binder 711; 0,5 m; 4 pin; female. to 3 x BNC; male; 80 °C

Mounting Accessories

- 308: Rare earth magnetic base; M3; Ø22; 120 °C
- 329: Adhesive pad insulating flange; M3; Ø20; 110 °C
- 038: Instant adhesive
- 027: Calibration adapter for KS963B100-S

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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