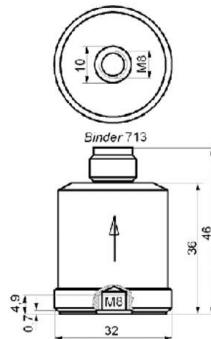


# High Sensitivity Accelerometer

KS48C

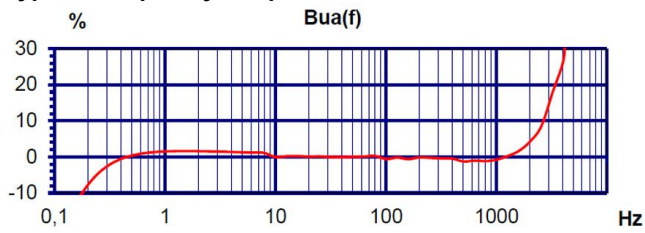
## Properties

- Suited for seismic measurement and building vibration, particularly at low frequencies
- Extremely sensitive piezo system without amplification provides excellent resolution and lowest noise
- Robust design with M12 connector
- Protection grade IP67

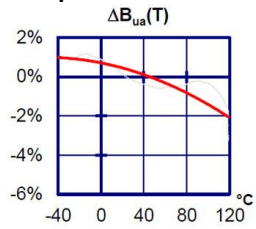


Piezo design	Shear design	
Output	IEPE	
Voltage sensitivity	1000	mV/g
Sensitivity tolerance	5	%
Measurement range, pos./neg.	6	g
Destruction limit	1000	g
Transverse sensitivity	<5	%
Lower frequency limit (3 dB)	0,07	Hz
Upper frequency limit (3 dB)	4000	Hz
Lower frequency limit (10 %)	0,2	Hz
Upper frequency limit (10 %)	2600	Hz
Lower frequency limit (5 %)	0,3	Hz
Upper frequency limit (5 %)	2000	Hz
Resonant frequency	>7	kHz
Resonance amplitude	25	dB
Constant current supply	2 bis 20	mA
Bias voltage at 4 mA	12 - 14	V
Output impedance	<130	Ω
Residual noise; wide band; RMS	<14 (0,5 - 10000 Hz)	μg
Noise density 0.1 Hz	20	μg/√Hz
Noise density 1 Hz	6	μg/√Hz
Noise density 10 Hz	1,3	μg/√Hz
Noise density 100 Hz	0,3	μg/√Hz
Noise density 1000 Hz	0,12	μg/√Hz
Operating temperature range	-20 - 120	°C
Temperature coefficient of voltage sensitivity	-0,02 (<40 °C)	%/K
	-0,03 (>40 °C)	%/K
Temperature transient sensitivity	0,0005	m/s <sup>2</sup> /K
Weight without cable	165	g
Case material	Stainless steel	
Connector direction	axial	
Connector	Binder 713	
Mounting	M8	
Protection grade	IP67	

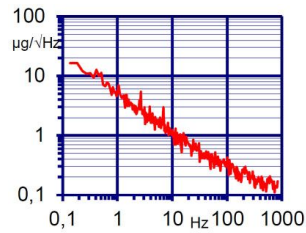
### Typical Frequency Response



### Temperature Coefficient



### Noise Characteristics



### Connection Accessories

- 080G
- 085-B713G-PIG-5
- 085-B713G-BNC-5

### Mounting Accessories

- 043
- 206
- 208
- 729

### Delivery version with accessories kit KS48C/01

- KS48C
- 208
- 043

**Notice:** The standard delivery includes an individual data sheet.  
Upon request, we also offer DAkkS-accredited calibration.

Manfred Weber

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