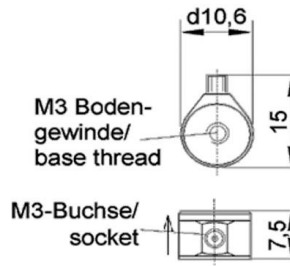


Miniature Accelerometer

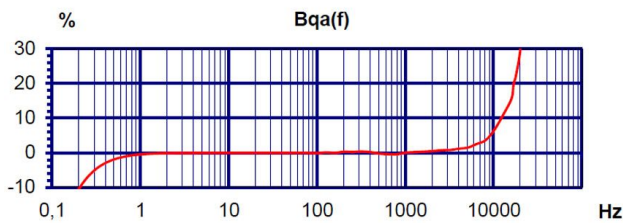
Properties

- Miniature transducer for light test objects
- Wide dynamic range
- High resonant frequency
- Charge output
- M3 base thread
- Replaceable cable



Piezo design	Shear design	
Output	Charge	
Charge sensitivity	5	pC/g
Sensitivity tolerance	20	%
Measurement range, pos./neg.	6000	g
Destruction limit	8000	g
Capacitance without cable	200	pF
Transverse sensitivity	<5	%
Upper frequency limit (3 dB)	22000	Hz
Upper frequency limit (10 %)	12000	Hz
Upper frequency limit (5 %)	9000	Hz
Resonant frequency	>42	kHz
Resonance amplitude	25	dB
Operating temperature range	-20 - 150	°C
Temperature coefficient of charge sensitivity	0,06	%/K
Temperature coefficient of capacitance	0,14	%/K
Temperature transient sensitivity	3	m/s ² /K
Magnetic field sensitivity	1,3	m/s ² /T
Base strain sensitivity	0,2	m/s ² /μD
Weight without cable	2.7	g
Case material	Titanium/stainless steel	
Connector direction	radial	
Connector	Subminiature M3	
Mounting	M3	

Typical Frequency Response



Connection Accessories

- 009-SUB-BNC-1,5: Low-noise cable; 1,5 m; Subminiature M3 to BNC; 120 °C; D2,1
- 009-SUB-UNF-1,5: Low-noise cable; 1,5 m; Subminiature M3 to UNF 10-32; 120 °C; D2,1
- 009/T-SUB-UNF-1,5: Low-noise cable; 1,5 m; Subminiature M3 to UNF 10-32; 200 °C; D2,1
- 016: Coupler UNF 10-32 (female) to UNF 10-32 (female)
- 017: Plug adapter UNF10-32 (female) to BNC (male)
- 117: Plug adapter UNF10-32 (female) to BNC (female)
- 025: Plug adapter UNF10-32 (female) to TNC (male)

Mounting Accessories

- 002: Bees wax for temporary sensor attachment
- 021: Mounting stud; M3 x 6
- 106: Screwed insulating flange; 2 x M3; D12; 110 °C
- 129: Adhesive insulating; flange M3; D12; 110 °C
- 022: Thread adapter; M3 female to M5 x 5 male
- 108: Rare earth magnetic base; M3; D10; 120 °C
- 130: Triaxial mounting cube; M3; □12
- 140: Adapter for strap attachment on curved surfaces; M3

Delivery version with accessories kit KS93/01

- 009-SUB-BNC-1,5,
- 021: Mounting stud; M3 x 6
- 002: Bees wax for temporary sensor attachment
- 106: Screwed insulating flange; 2 x M3; D12; 110 °C
- 129: Adhesive insulating; flange M3; D12; 110 °C
- 108: Rare earth magnetic base; M3; D10; 120 °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.



Manfred Weber

Metra Mess- und Frequenztechnik in Radebeul e.K.