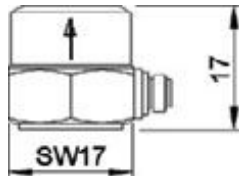


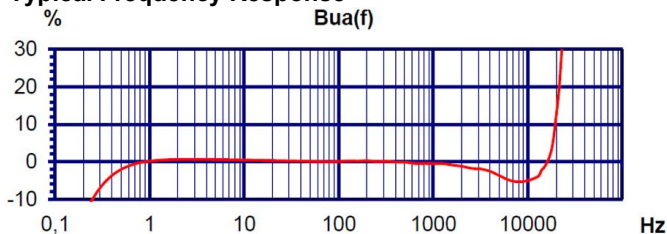
## Properties

- Shear-type accelerometer with IEPE output
- Two sensitivity versions (10 and 100 mV/g)
- Low sensitivity to temperature transients
- Low influence of base bending effects
- High linear band width
- Low noise, high resolution
- Rugged stainless steel housing

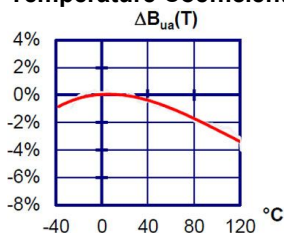


| Piezo design                                   | Shear design           |        |
|------------------------------------------------|------------------------|--------|
| Output                                         | IEPE                   |        |
| Voltage sensitivity                            | 10                     | mV/g   |
| Sensitivity tolerance                          | 5                      | %      |
| Measurement range, pos./neg.                   | 600                    | g      |
| Destruction limit                              | 6000                   | g      |
| Transverse sensitivity                         | <5                     | %      |
| Lower frequency limit (3 dB)                   | 0,12                   | Hz     |
| Upper frequency limit (3 dB)                   | 33000                  | Hz     |
| Lower frequency limit (10 %)                   | 0,25                   | Hz     |
| Upper frequency limit (10 %)                   | 26000                  | Hz     |
| Lower frequency limit (5 %)                    | 0,35                   | Hz     |
| Upper frequency limit (5 %)                    | 24000                  | Hz     |
| Resonant frequency                             | >50                    | kHz    |
| Resonance amplitude                            | 25                     | dB     |
| Constant current supply                        | 2 - 20                 | mA     |
| Bias voltage at 4 mA                           | 12 - 14                | V      |
| Output impedance                               | <130                   | Ω      |
| Residual noise; wide band; RMS                 | <2000 (0,5 - 20000 Hz) |        |
| Noise density 1 Hz                             | 300                    | μg/√Hz |
| Noise density 10 Hz                            | 80                     | μg/√Hz |
| Noise density 100 Hz                           | 25                     | μg/√Hz |
| Noise density 1000 Hz                          | 10                     | μg/√Hz |
| Operating temperature range                    | -30 - 130              | °C     |
| Temperature coefficient of voltage sensitivity | 0,06 (<0 °C)           | %/K    |
|                                                | ±0,02 (0 - 30 °C)      | %/K    |
|                                                | -0,06 (>30 °C)         | %/K    |
| Temperature transient sensitivity              | 0,1                    | m/s²/K |
| Weight without cable                           | 20                     | g      |
| Case material                                  | Stainless steel        |        |
| Connector direction                            | radial                 |        |
| Connector                                      | UNF10-32               |        |
| Mounting                                       | M5                     |        |

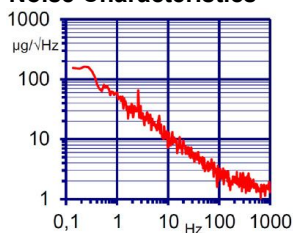
## Typical Frequency Response



## Temperature Coefficient



## Noise Characteristics



## Connection Accessories

- 009-UNF-UNF-1,5: Low-noise cable; 1,5 m; UNF 10-32 to UNF 10-32; 120 °C; D2,1
- 009-UNF-BNC-1,5: Low-noise cable; 1,5 m; UNF 10-32 to BNC; 120 °C; D2,1
- 010-UNF-BNC-5: Low-noise cable; 5 m; UNF 10-32 to BNC; 120 °C; D2,1
- 010-UNF-BNC-10: Low-noise cable; 10 m; UNF 10-32 to BNC; 120 °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

- 001: Sensor probe; M5
- 003: Mounting stud; M5 x 8
- 006: Screwed insulating flange; 2 x M5; SW17; 80 °C
- 029: Adhesive insulating flange; M5; D15; >250 °C
- 045: Thread adapter; M5 x 4 male to UNF 10-32 x 4 male
- 046: Thread adapter; M5 x 4 male to 1/4-28 x 4 male
- 008: Rare earth magnetic base; M5; D22; 120 °C
- 030: Triaxial mounting cube; M5; □21
- 700: Underwater pressure hull for installation of sensors; 20 Bar

## Delivery version with accessories kit KS77C10/01

- 009-UNF-BNC-1,5: Low-noise cable; 1,5 m; UNF 10-32 to BNC; 120 °C; D2,1
- 003: Mounting stud; M5 x 8
- 002: Bees wax for temporary sensor attachment
- 006: Screwed insulating flange; 2 x M5; SW17; 80 °C
- 001: Sensor probe; M5
- 008: Rare earth magnetic base; M5; D22; 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/s<sup>2</sup> to 200 m/s<sup>2</sup>.



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