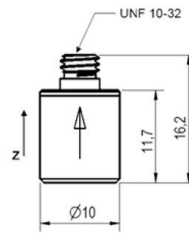


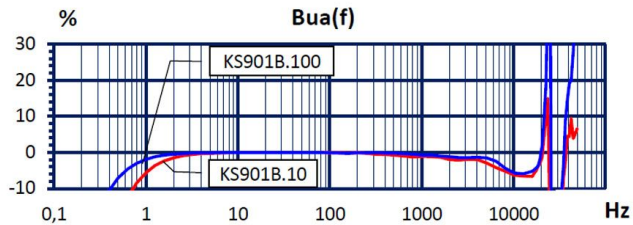
## Properties

- OEM transducer for drill hole mounting
- Low-cost transducer for mass production
- Two sensitivity versions (10 and 100 mV/g)

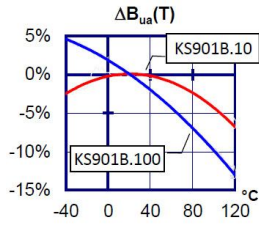


|  |  |                     |
|--|--|---------------------|
| Piezo design                                   | Shear design                                     |                     |
| Output   | IEPE   |                     |
| Voltage sensitivity                            | 10   | mV/g                |
| Sensitivity tolerance                          | 20   | %                   |
| Measurement range, pos./neg.                   | 500  | g                   |
| Destruction limit                              | 10000  | g                   |
| Transverse sensitivity                         | <5   | %                   |
| Lower frequency limit (3 dB)                   | 0,35   | Hz                  |
| Upper frequency limit (3 dB)                   | 28000  | Hz                  |
| Lower frequency limit (10 %)                   | 0,7  | Hz                  |
| Upper frequency limit (10 %)                   | 21000  | Hz                  |
| Lower frequency limit (5 %)                    | 1  | Hz                  |
| Upper frequency limit (5 %)                    | 10000  | Hz                  |
| Resonant frequency                             | >70  | kHz                 |
| Resonance amplitude                            | 25   | dB                  |
| Constant current supply                        | 2 - 20   | mA                  |
| Bias voltage at 4 mA                           | 12 - 14  | V                   |
| Output impedance                               | <100   | Ω                   |
| Residual noise; wide band; RMS                 | <1000 (0,5 - 20000 Hz)                           | μg                  |
| Noise density 1 Hz                             | 250  | μg/√Hz              |
| Noise density 10 Hz                            | 70   | μg/√Hz              |
| Noise density 100 Hz                           | 10   | μg/√Hz              |
| Noise density 1000 Hz                          | 3  | μg/√Hz              |
| Operating temperature range                    | -30 - 120  | °C                  |
| Temperature coefficient of voltage sensitivity | 0,08 (<10 °C)                                    | %/K                 |
|  | 0,05 (10 - 40 °C)                                | %/K                 |
|  | 0,02 (40 - 80 °C)                                | %/K                 |
|  | -0,02 (>80 °C)                                   | %/K                 |
| Temperature transient sensitivity              | 3,5  | m/s <sup>2</sup> /K |
| Magnetic field sensitivity                     | 3,5  | m/s <sup>2</sup> /T |
| Weight without cable                           | 5.2  | g                   |
| Case material                                  | Stainless steel                                  |                     |
| Connector direction                            | axial  |                     |
| Connector                                      | UNF10-32   |                     |
| Mounting                                       | Adhesive in drill hole Ø10, depth >6 or clamping |                     |

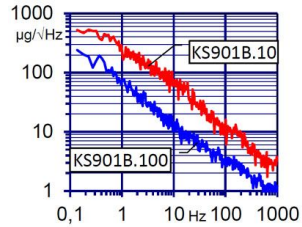
## Typical Frequency Response



## 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

- 002: Bees wax for temporary sensor attachment

**Notice:** This sensor is supplied with a list protocol showing its individually measured sensitivity.

Manfred Weber

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