

AI 10.012. Accelerometer

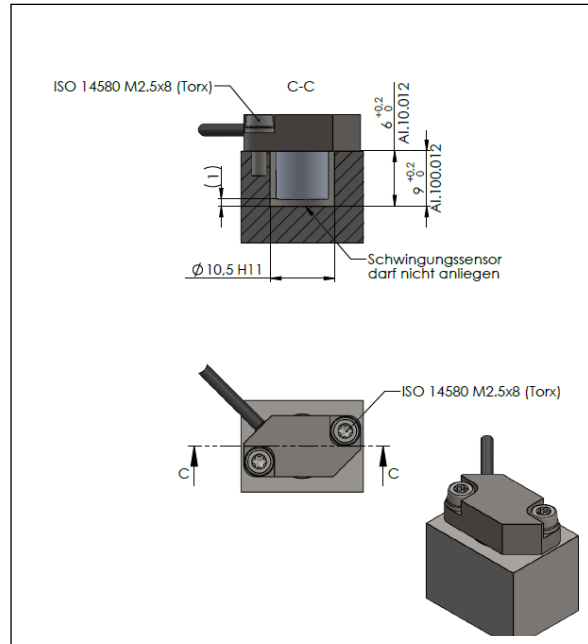
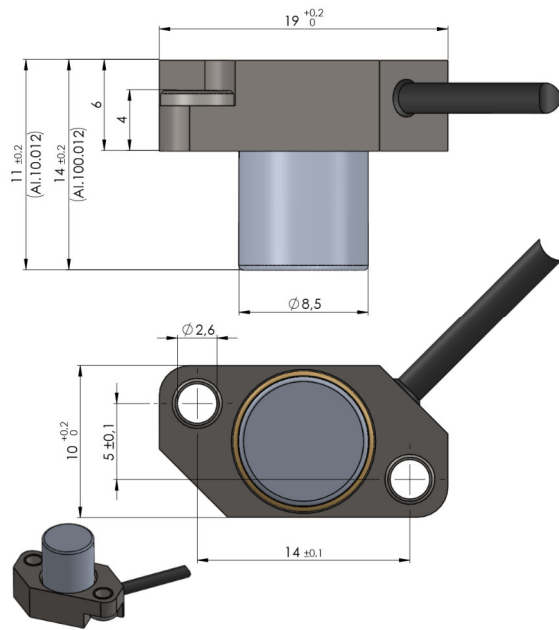


- accelerometer for vibration and roller bearing condition measurements
- heavy duty design for use in harsh environments, such as in contact with cooling liquid
- integral cable for protection against moisture
- PUR cable isolation
- stainless steel / PVC housing

Specifications:

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|-----------------------------|--|
| Sensor Type | piezoelectric accelerometer (PZT/Shear) |
| Sensitivity | 10 mV/g +/-10% |
| Resolution | 0,003 g |
| Acceleration Range | max.100 g |
| Shock Limit | max 5000 g |
| Frequency Range | 0,5 - 10.000 Hz +/-3 dB (5.000 - 50.000 Hz for Bearing Condition) |
| Resonant Frequency, Mounted | > 25 kHz |
| Power Requirements | constant current 2 -10 mA; +18 to 28 V DC (ICP™) |
| Temperature Range | -40...+80°C |
| Housing Material | PVC-C / Stainless Steel |
| Dimensions | see drawing |
| Mounting | with 2 M2.5 screws fastening torque 0.5 Nm (V2A-screws) fastening torque 0.7 Nm (Titanium-screws) |
| Weight | approx. 12 gramms (excluding cable) |
| Shipping Weight | approx. 50 gramms (with 3 m cable) |
| Cable | shielded 2 wire, PUR jacketed, wire size 0,09 mm ² outer diameter: approx. 2.7 mm white: signal; brown: ground; shield isolated from sensor housing |
| Standard Cable Length | approx. 3 meters: AI10.012.030 other lengths on request |

Dimensions:



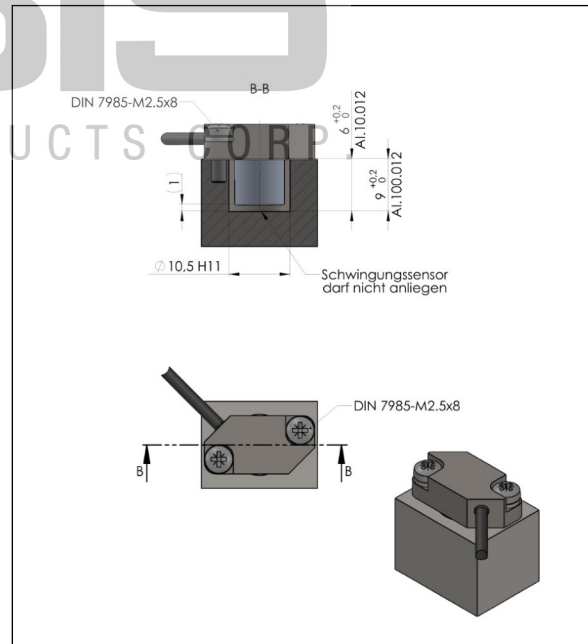
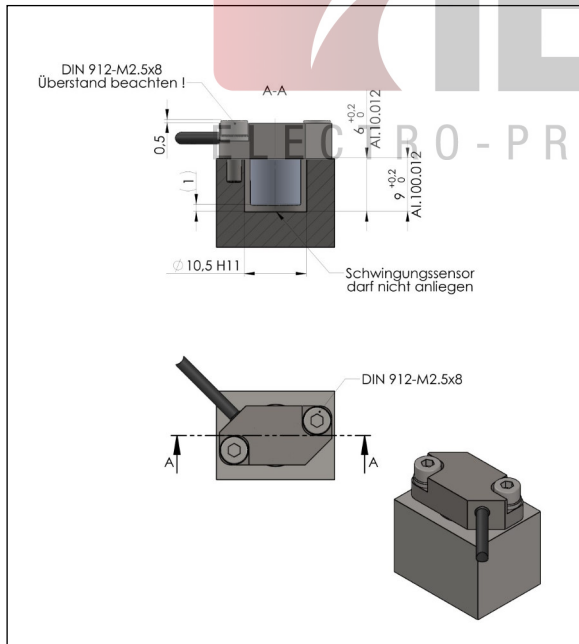
Recommended Mounting Arrangement:

mounting with screws DIN 912-M2.5x8:

(cylindric part of sensor must not touch machine housing)
(note height / projection of screw head)

mounting with screws ISO 14580 (Torx)
or DIN 7985-M2.5x8:

(cylindric part of sensor must not touch machine housing)



Cable Colours:

- White: Signal
- Brown: Ground
- Shield: Open On Sensor Side

| | | |
|----------------------------|----------------------|--|
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