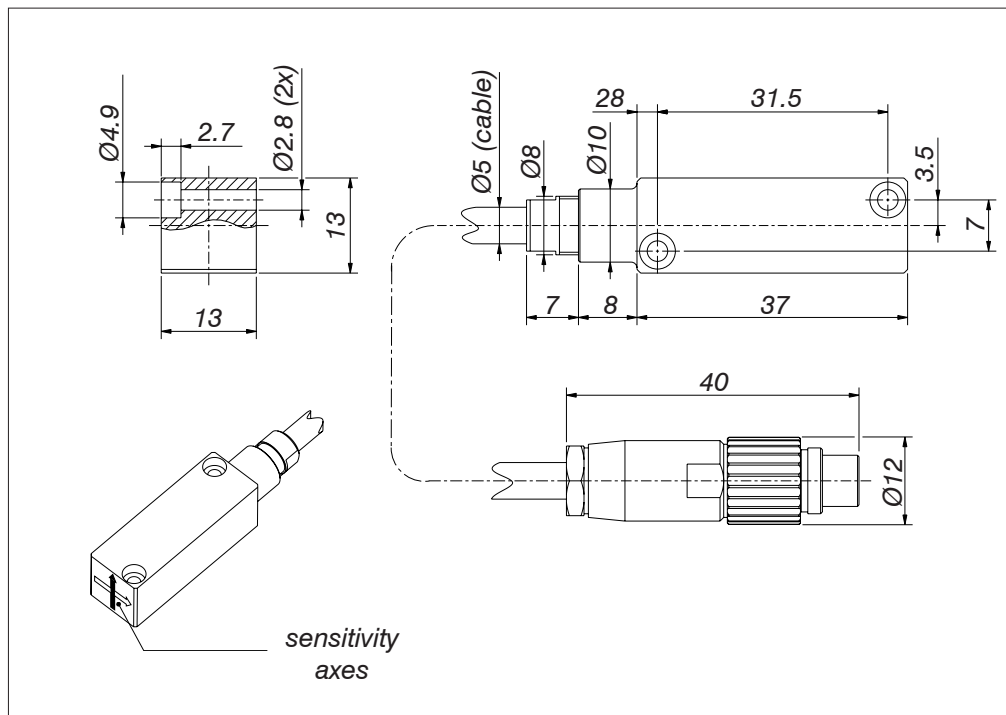




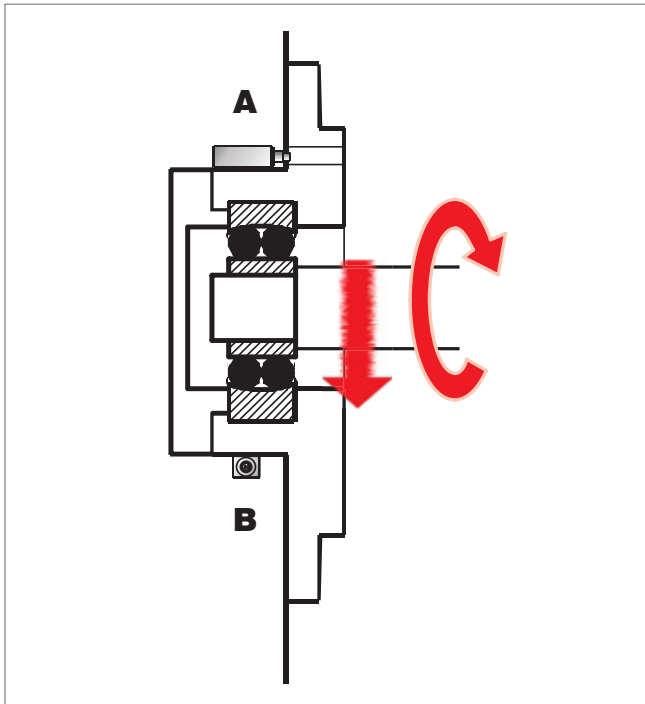
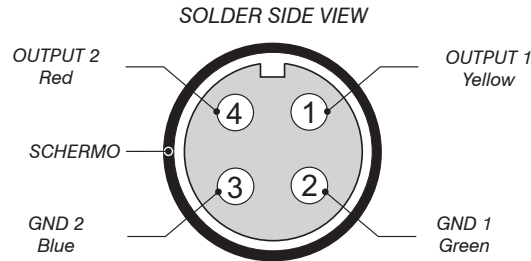
ACCELEROMETER



- Touch Probes
- Transmission Systems
- Laser
- Software
- Toolsetting Arms
- Tool & Process Monitoring**
- Accessories

Technical data

Wiring diagram



Selection of accelerometer mounting and fixing position

The accelerometer must be assembled so that measuring directions are aligned with its main sensitivity axes (see arrows in fig. at page #1).

In the side reported sketch, accelerometer A is sensitive on a plane perpendicular to spindle axis, detecting vibration signals produced by the bearing along its two preferred directions. Accelerometer B, on the contrary, in addition to signals produced by the bearing in radial direction, it is at the same time sensitive to possible vibrations along spindle axis.

Technical specification

Sensor type	piezoelectric
Applicative feature	biaxial
Dimensions	37 × 13 × 13 mm
Sensitivity	10 mV/g* (± 20%)
Transversal sensitivity	< 5%
Frequency range	0.4 Hz ÷ 10 kHz
Resonance frequency	> 30 kHz
Measuring range	500 g*
Shock limit	7000 g*
Linearity error	≤ 1%

Power supply	2 ÷ 20 mA - 18 ÷ 28 Vdc
Output impedance	< 100 ohm
Operating temperature range	-5° ÷ 80°C
Cable length	3 m
Cable diameter	Ø5 mm
Thermal coefficient	0.18%/°C
Cable sheath material	EU (polyurethane-polyether)
Protection degree (IEC 60529 standard)	IP67

(*) = gravity acceleration value, corresponding about to $\approx 10 \text{ ms}^{-2}$



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