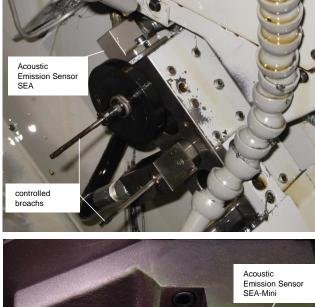
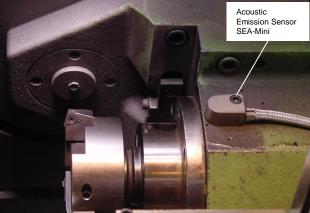


Acoustic Emission Sensor SEA and SEA-Mini









Technical data:

Frequency range:	5 kHz – 1 MHz
Amplitude dynamics:	110 dB
	(= difference between greatest and smallest measurable acoustic emission amplitude)
Temperature range:	-40 °C to +85 °C
Power supply:	via acoustic emission processor SEP (± 15V)
Cable:	coax cable RG174U standard cable length: 3m

Function:

- Measurement of acoustic emissions of tools during turning, drilling, milling and grinding operations.
- Acoustic detection of contact between grinding disk and workpiece for gap control
- Gap elimination drill/workpiece
 - Acoustic workpiece dimension control based on detection of friction noise between a test blade and the workpiece

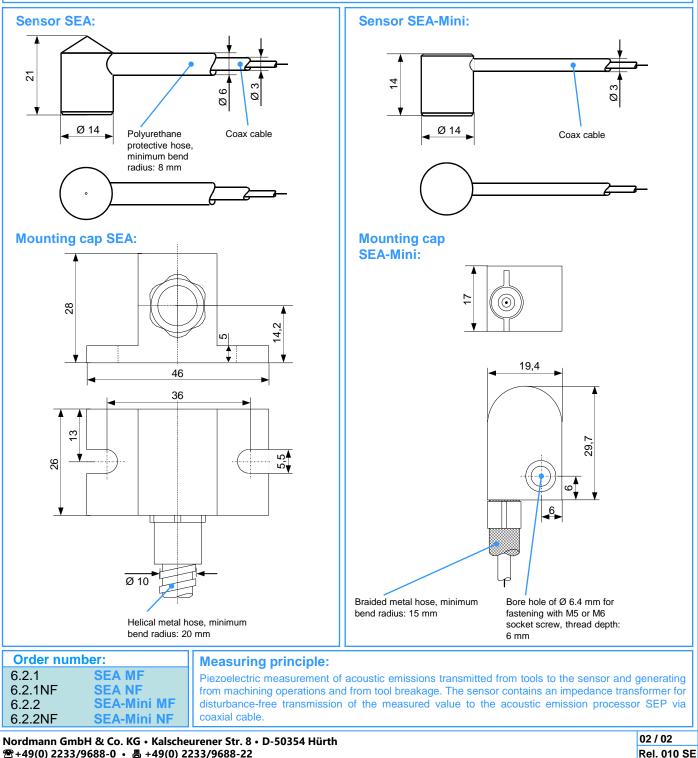
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Installation:

The sensor SEA or SEA-Mini is screwed on with a metal cap as close as possible to the tool to be monitored or the workpiece to be machined. Before installation, the mounting surface must be cleaned to bare metal. Apply the provided coupling grease to the center of the base plate to avoid an air gap between sensor and mounting surface and thus ensure proper coupling of the sensor.

When installed in tight spaces or on cylindrical spindle bearings, the sensor SEA or SEA-Mini may also be mounted without the metal cap. In this case, it must be pressed on using an appropriate clamp screw, flat spring or tube clamp with a maximum force of 50 N (approx. 5 kg) on the tip at its head. On curved surfaces, at least the center of the white base plate must be in contact with the mounting face.

When measuring on the machine table, make sure to clean the contact surfaces of workpiece and clamping devices in order to achieve an optimum of large-area lowloss contact between the machine parts. Liquids such as cuting oil or emulsion will acoustic improve the emission transmission across the gaps between these machine parts.



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