



# NORDMANN

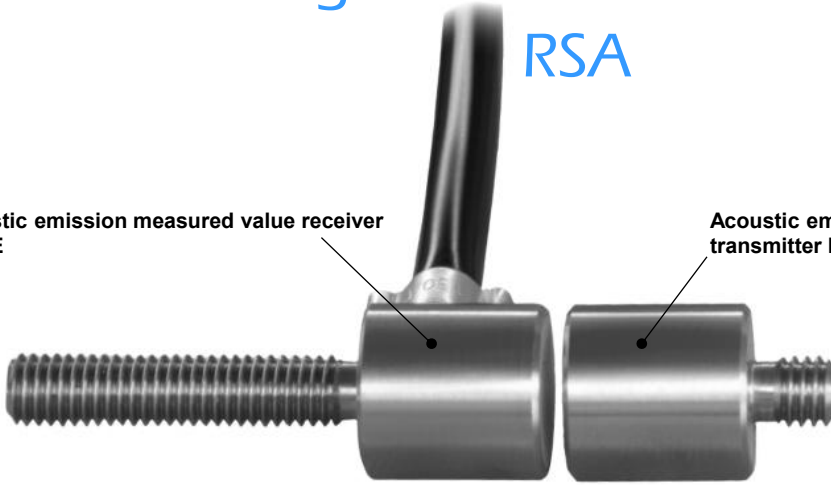
## METAL CUTTING MONITORING

# Rotating acoustic emission sensor

## RSA

Acoustic emission measured value receiver  
RSA-E

Acoustic emission sensor and measured value  
transmitter RSA-S

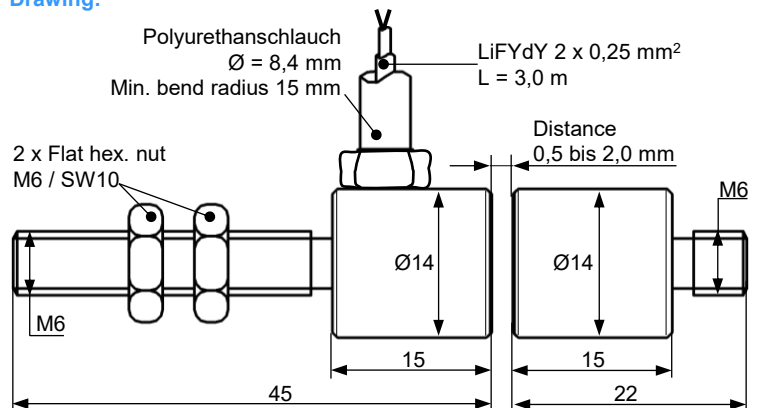


- Monitoring the acoustic emission generated during dressing for dressing infeed monitoring
- Acoustic detection of the contact between wheel dresser / workpiece for gap control
- Gap elimination drill / work piece

The acoustic emission sensor RSA, comprising rotating acoustic emission sensor and upright measured value receiver serves for the sound pickup of grinding wheels and diamond rollers. The rotating acoustic emission sensor is mounted in the center of the grinding and/or dressing spindle or the wheel dresser and/or diamond roller flange with a M6-screw thread. The receiver is fastened opposite the sender at a distance of 0.5 to maximum 2 mm. The smaller the distance is, the stronger are the measured values transmitted and the weaker the effects of possible malfunctions in the case of neighbouring electromagnetic interference fields.

This sensor is more sensitive than the sensor BSA

### Drawing:



### Technical data:

Frequency range: 100 - 400 kHz  
 Measuring range : 110 dB  
 Voltage supply: Via SEP ( $\pm 15V$ )  
 Cable: LiFYDY 2 x 0,25 mm<sup>2</sup> PU-Tube  
 Standard length = 3 m

Montage: fitting of the rotating sensor = sender in a M6 hole in the center of a tool spindle. Installation of the upright receiver at a distance of 0.5 to 2.0 mm concentrically to the rotating sensor.

### Order identification:

RSA (Sender and receiver)	6.4.1
RSA-E (only receiver)	6.4.E
RSA-S (only sender)	6.4.S