



KS-3 Force Sensor

Technical data

- ⊕ Measuring Sensitivity: 250 pC / $\mu\epsilon$
- ⊕ Temperature Range: 0 to 60 °C
- ⊕ Isolation Resistance > 10¹¹ Ω
- ⊕ Overload 2500 g (0,5 ms impulse)
- ⊕ Sensor Protection Degree IP 66, resistant to industrial climate, oil and cooling lubricant
- ⊕ Length of cable (standard) 3 m
- ⊕ Installed with smart-AMP amplifier

Typical applications

- ⊕ Force measurement inside machine to detect variety of problems:
 - Tool wear, breakage
 - Production quality problems such as double material



Installation note: Don't install on fast moving parts on stamping/punching machine, as cable will wear out.



KS-3 Applications and limitations

Strengths:

- ⊕ Can detect variety of problems in stamping/punching
- ⊕ High sensitivity, can detect relatively small changes
- ⊕ Small, can fit in relatively small spaces

Weaknesses:

- ⊕ Signal sensitive to placement of sensor. To overcome, detailed knowledge of the machine is required, or high number of sensors.
- ⊕ Requires one-time calibration at start-up



General take-away; Good for detecting a variety of issues in stamping & punching, stay away from applications with varying force directions