

SK DISKFLEX

Piezoelectric sensor for measuring forces in machines and tools

- universally applicable force sensor
- measures forces in all direction (strain, compression, bending, etc.)
- easy and quick to install by glueing or epoxying
- well protected against external damage through the recessed installation in prepared pockets or millings
- very high resolution and sensitivity
- durable and wear-free
- pluggable cable exit possible
- 10.000's in daily use in industrial applications

DISKFLEX force sensing disc

Piezoelectric sensors have proven their effectiveness for many years when it comes to measuring stress or forces in connection with machine monitoring devices. The robust design, the solid-state, non wearing measuring principle, the high degree of sensitivity and the ease in handling have made piezo force sensors the standard in metalworking applications.

The DISKFLEX measuring discs are simply glued or epoxyd into pockets that are machined in the part where the force is to be measured. The signal output is directly proportional to the load, and the sensor reacts to forces in both directions (compression of the disc and radial forces).

Our tool monitoring systems are equipped with the proper charge amplifiers required to process the measured signals further.

Benefits:

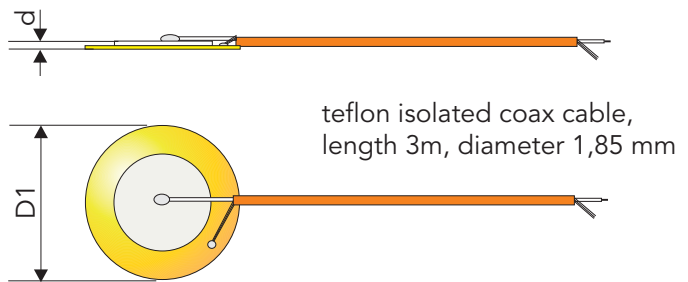
- very inexpensive sensing element
- easy, quick and protected installation
- available in different diameters as well as in special shapes such as rectangles, stripes, ..
- requires very little space
- very high signal output
- protected cable routing (also pluggable)
- DISKFLEX sensors are electrically compatible to the industry's standard

We offer the **SK EASY-mix professional** set (part no. 100709) providing the right tools and adhesives for a proper bonding of the DISKFLEX sensors:



Technical modifications are possible without prior notice.

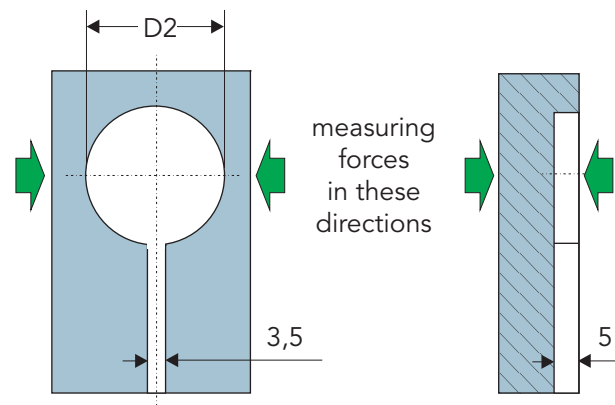
Dimensions



Standard sizes (mm):

Part No.	D1	d	D2
100984	10	0,15	11
100983	15	1,0	26
100987	20	1,0	21
100981	27	1,0	28

Mounting situation



Application example:

DISKFLEX sensor with plug-in connector block glued into the stripper plate of a stamping tool.