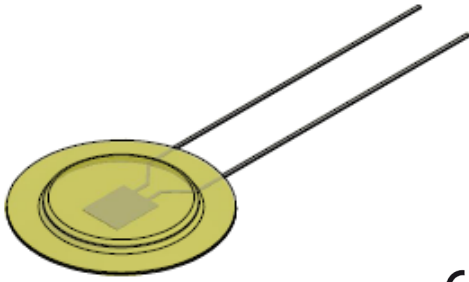


StrainPad



CE

Important properties:

- Direct measurement of surface elongation
- Quick and non-destructive assembly using various assembly devices
- Individual assembly devices possible according to customer requirements
- Reusable
- High accuracy and linearity in tension/compression
- Dynamic applications
- Without amplifier (passive)

Technical data

StrainPad construction

Measuring grid length	mm	0,6
Direction		Uniaxial
Measuring grid material		Konstantan
Capsule material		Polyimid
Outer diameter	mm	10
Height	mm	0,2
Connections		Solder pads
Housing material of mounting solutions		Aluminium

Electrical properties

Bridge resistance	Ω	120
Resistance tolerance	%	$\pm 0,3$
K-Factor		1,9
K-Factor-toleranz	%	± 3
Cross sensitivity	%	-0,1
Recommended bridge voltage	V	1
Max. bridge voltage	V	10

Temperature properties

Reference temperature	$^{\circ}\text{C}$	23
Usage temperature	$^{\circ}\text{C}$	0...60
Possible temperature adjustment	1/K	10,8E-6 ferritic steel

Installation conditions

Contact pressure	N	100...300
Smallest radius of curvature	mm	3
Setting time	min	15

Measurement properties

Maximum elongation	$\mu\text{m}/\text{m}$	± 1000
Accuracy		$< \pm 0,5\%$ from the final value
Overload capacity		unlimited (offset can occur)
Achievable load changes at 300 $\mu\text{m}/\text{m}$ elongation		1,00E+06

The StrainPad measures the surface expansion in the same quality as conventional strain gauges directly at the assembly point.

The StrainPad developed and patented by octogon GmbH is pressed so strongly against the surface to be measured that frictional engagement is created.

The assembly of the sensor is non-destructive, very simple and carried out in seconds.

Standard mounting devices can be found on our website. Please contact us for individual assembly devices specifically for your application.



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