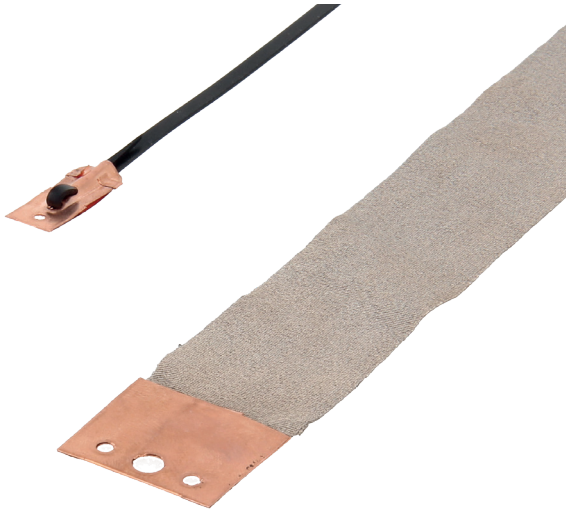
STRETCH SENSOR 4940

For measurement of small movements

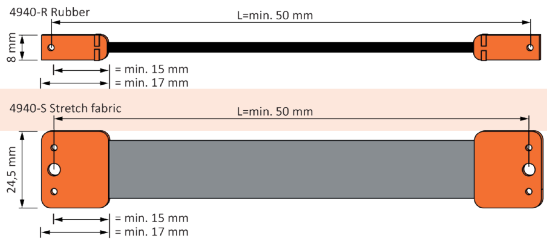


Stretch materials up to 30% without permanently deforming. On both sides copper clips for mounting the sensor on the product with little resistance loss. Precise movement measuring by changing resistance in the material. Two types of material; conductive fabric and conductive rubber. Length of the sensor can be specified on request. The sensor doesn't have any sharp edges so it can be used on skin.

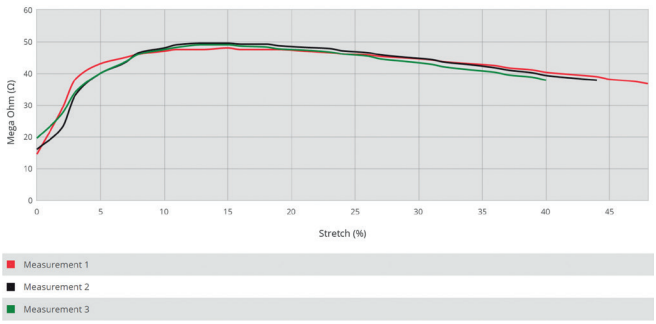
SPECIFICATIONS MATERIAL

Conductive rubber	
Shore A (40-50 range)	45
Tensile psi (150 minimum)	185 psi
Elongation % (300 minimum)	350%
Compression set % (30 max.)	21% (70 hours at 100°C)
Specific Gravity (1.75-2.25)	2.08
Volume Resistivity ohm / cm (0.004 max.)	002 ohm /cm
Thermal Stability Range	-60 °C – 220 °C
Conductive fabric	
Surface resistivity	<0.5 Ohm-sq. (unstretched)
Shielding Effect	35+ dB: 1-10 GHz
Temperature range	-30 °C to 90 °C
Thickness	0,40mm
Weight	4.3 oz/yd² 145 Gr./0.84m²
Stretch	~100% x length; ~65% x width direction
Permanent deformation	After ± 30% stretch
Standard length	135 cm (52 inch) wide

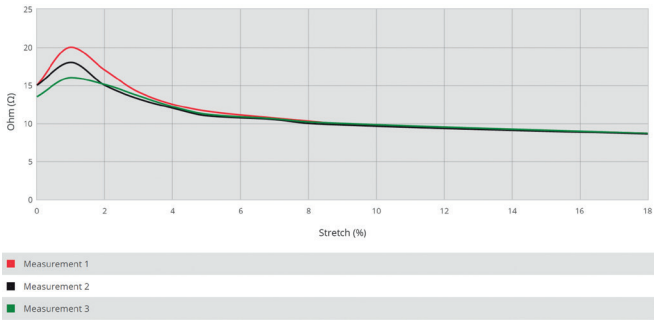
OPTIONS AND DIMENSIONS



STRETCHING SENSOR - SILICON LENGTH



STRETCH SENSOR - FABRIC WIDTH



HOW TO ORDER

Part number		Options		Length (mm)
4940	–		–	
		R : Rubber S : Stretch fabric		Please specify the length in mm (min 50 mm)

Technical Data Sheet