

Title (en)

SENSOR STRIP AND DEVICE FOR MEASURING GEOMETRIC SHAPES

Title (de)

SENSORSTREIFEN UND VORRICHTUNG ZUR MESSUNG VON GEOMETRISCHEN FORMEN

Title (fr)

BANDE DE DÉTECTION ET DISPOSITIF POUR MESURER DES FORMES GÉOMÉTRIQUES

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Application

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Abstract (en)

[origin: WO2022089775A1] The present invention relates to a flexible sensor strip for measuring geometric shapes, in particular bending radii or the like, and to an associated device which can process and evaluate sensor signals of the sensor strip. The sensor strip comprises a substrate, on which a plurality of resistor pairs is arranged. Each of these resistor pairs has a resistor on the substrate front side and a further resistor on the substrate rear side. Both of these resistors are connected in series and between the poles of a supply voltage so that they form a voltage divider. The special feature of the present invention is that an electrical via and/or a pair of electrically interconnected contact elements is provided for the series circuit, that is, for the connection between the two resistors. When the substrate or the sensitive region of the sensor strip is moved into itself, in particular in the event of bending and/or twisting (torsion), the mid voltages in the affected voltage dividers change. This is sensed and evaluated by the measuring device according to the invention.

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