

WELDABLE STRAIN SENSOR FOR CURVED SURFACES

Abstract

The invention relates to a weldable strain sensor suitable for curved surfaces and having the following features:

- a. a strain sensor (2) having two end portions, which are coupled in signal communication with signal lines (3a, 3b) for conducting the measurement signal,
- b. a sensor carrier (4) which extends in the direction of the strain sensor (2) and is firmly connected thereto and
- c. a protective cover (5) which is made of a solid plastic and integrally surrounds the strain sensor (2) and the end portions of the signal lines (3a, 3b) and which is firmly connected to the sensor carrier (4), wherein
 - the protective cover (5) in the region of the strain sensor (2) is configured narrow and flat and in the region of the coupling points of the signal lines (3a, 3b) with the strain sensor (2) is at least twice as wide and at least twice as high as in the region of the strain sensor (2), and
- d. the end portions of the sensor carrier (4) have slots (6), so that tongues (7) are formed, with the tongue ends being directed in opposition to each other.

[Fig. 5a]