

## RESISTIVE STRAIN GAUGE

### Description

The resistive strain gauges are used to measure the stress in load-bearing structures or to monitor the tensions in tunnel linings, during tunnel excavation phases. Such control is necessary for the verification of the tensions and deformations of both temporary and permanent retaining structures.

The strain gauge sensors are installed in the center of the bar according to a particular disposition that allows compensation of the electrical signal from thermal and bending effects.

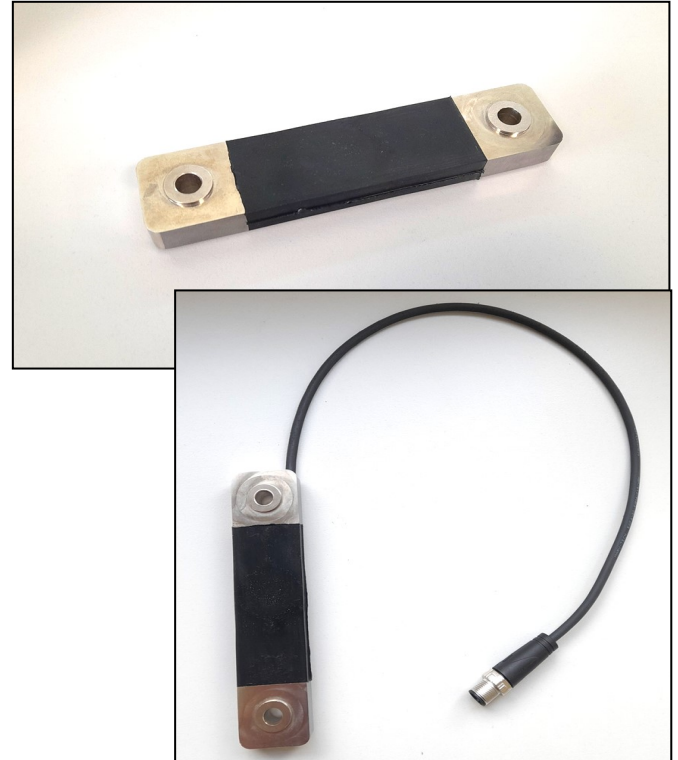
The gauge can work both in tension and compression and the part is potted in order to allow the instrument to work in case of embedding or stress.

Data can be read through the portable control unit or by using an automatic data acquisition system, designed to provide continuous monitoring.

The gauge can work both in tension and compression, and is also watertight and can be installed externally in stressed structures or embedded in concrete castings.

### Please specify

CODE	PRODUCT DESCRIPTION
BCR-400	Resistive strain gauge, output mV/V
BCR-700	Couple of anchors, fixing with expansion bolt
BCR-710	Couple of anchors, fixing in the hole using resin
BCR-720	Couple of anchors, fixing by welding on metal
BCR-730	Couple of anchors fixing by gluing



### Technical specification

<b>Sensor type</b>	full bridge
<b>Bridge resistance</b>	350 ohm
<b>Material</b>	aluminium alloy
<b>Range</b>	3000 $\mu\epsilon$ (+/- 1500 $\mu\epsilon$ )
<b>Accuracy</b>	+/- 0.5% FS
<b>Sensibility</b>	2 mV/V
<b>Overload</b>	150% FS
<b>Power</b>	2-10 Vdc
<b>Signal output</b>	mV/V
<b>Dimensions</b>	30 x 130 x 15 mm
<b>Operating temperature</b>	-20...+60 °C
<b>Class of protection</b>	IP67

### For more information:

**Gestecno s.r.l.**

Loc. Lanciano, 22 - 62022 Castelraimondo (MC) - Italy  
Tel/fax: (+39) 0737.642174 - P. IVA 01137480438  
e-mail: info@gestecno.it - WEB: www.gestecno.it