

Press release

Innovative LVDT sensor for monitoring bridge statics

Taufkirchen – In recent years, the number of bridges in urgent need of rehabilitation has increased worldwide. In addition to unexpected material fatigue or undercutting of foundations, the reasons for this are often found in overloading due to increasing traffic and inadequate monitoring of structural statics. For example, delayed problem identification in Genoa last year led to a motorway bridge collapse with devastating consequences. Against this background, Inelta has developed an extremely compact and robust LVDT (Linear Variable Differential Transformer) displacement sensor for long-term monitoring of bridge statics, which reliably detects even the smallest displacements at critical load points.



(Source: Pixabay/Babara Bumm)

Image: The outdoor LVDT for long-term monitoring of bridge statics is characterised by its robust design and an optimised length-to-touch ratio

The inductive measuring principle achieves a theoretically unlimited resolution, which depends solely on the quality of the signal amplification. In addition, LVDTs operate absolutely wear-free and maintenance-free due to contactless measurement. In contrast to conventional LVDT sensors, where the ratio of measuring path to overall length is usually 1:4 or more, Inelta's special LVDTs for static monitoring with a length-to-touch ratio of 1:1.5 have a previously

unattainable compact design. Due to their welded housing and a bellows to protect the probe, the sensors have been designed for the harsh requirements of outdoor use.

Inelta exhibits at the SENSOR+TEST 2019 in Nuremberg in hall 1, booth 457.

Characters: 1.410

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About Inelta Sensorsysteme

Based in Taufkirchen near Munich, Inelta Sensorsysteme has been developing, producing and marketing standard and customized sensor solutions for industrial applications for more than 25 years. Together with PIL Sensoren (Erlensee near Frankfurt/Main), a pioneer in ultrasonic sensor technology, and VYPRO (Trenčín, Slovakia), the company offers a wide range of products for displacement and position measurement as well as for force, pressure and inclination measurement. The product range includes force sensors, signal conditioner, pressure switches, capacitive sensors and ultrasonic sensors. Services in the field of cable and connector assembly complete the portfolio.

The group of companies supplies in particular customers from the industrial automation, mechanical engineering, hydraulics, medical technology and aerospace sectors. Industry- and customer-specific sensor solutions form a key focus, which is continuously expanded with interdisciplinary know-how.

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