

# Multi-channel fiber optic strain gauge



## Overview

Optical strain sensor to be bolted or welded Immune to electromagnetic interference Can be installed in highly disruptive environments: hydroelectric plants, electrical transformers, electric locomotives. Resistant to corrosive environments Ideal for long-term monitoring of. Luna's fiber optic sensing solutions deliver strain measurements that go beyond what's possible with traditional strain gages. with fiber Bragg gratings Concept tree: Related: fiber Bragg gratings fiber-optic sensors optical temperature sensors Page views in 12 months: 760 DOI: 10. 61835/esi Cite the article: BibTex BibLaTeX plain text HTML Link to. Find the right equipment for your application or project: handheld instruments, vibration shakers, data acquisition (DAQ) systems, systems for electric power testing, high-precision instruments as well as electronics and instruments to optimize your industrial production. Benefit from the quality. Traditional strain gauges rely on electricity to measure small variances in strain. The SPL500 is designed to produce accurate measurements quickly and with confidence.

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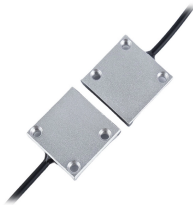
We offer standard strain gauges but can also help you with a customized design or a complete measurement solution. Simply send us your contact details and tell us what you are looking for. Our ...



Luna's fiber optic sensing solutions deliver strain measurements that go beyond what's possible with traditional strain gauges. Three types of fiber optic strain sensors offer a wide range of strain ...



The SPL500 is a fiber strain measurement system that measures fiber elongation and attenuation simultaneously during mechanical stressing of the cable. The SPL500 is designed to produce ...



This miniature and robust fiber optic strain gauge sensor, available in different cables and sheath options, may be customized to customer specific requirements or for OEM-type applications.



This is a high speed multi-channel acquisition unit for FBG sensors, such as stress / strain, temperature, pressure, acceleration, force and displacement.



Optical strain sensors (or strain gauges) are sensors for compressive and/or tensile mechanical strain (deformation) which are based on optical technology — in most cases, on fiber optics.



Discover the Scaime range of fibre Bragg deformation sensors and fibre-optic strain gauges for up to 10,000  $\mu\text{m}/\text{m}$ .



Measure wide strain ranges with long-term stability. Perfect for harsh conditions like humidity, rust, and salt —even across long distances.



Explore how fiber optic strain gauges deliver accurate, real-time structural monitoring for aerospace, energy, civil, and transportation industries.



Unlike conventional strain gauges that only measure strain at a discrete point, Luna's high definition fiber optic strain gauges provide continuous, high-resolution (less than 1 mm) measurements of strain ...

## Contact Us

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