

Portuguese fiber optic displacement sensor supplier



Overview

Founded in 2004 in Porto, Portugal, as FiberSensing, the company offers the most complete portfolio of FBG sensors to measure strain, temperature, tilt, acceleration, and displacement, as well as measurement units and software packages for interconnection to external systems. This is the supplier profile of HBK FiberSensing, S., with address and other contact information, and with 12 registered photonics product categories. HBK FiberSensing is a business subsidiary of HBK – Hottinger Brüel & Kjær and a world leader in the development and production of advanced monitoring systems based on optical Fiber Bragg Grating (FBG) technology. Vision-Box is a technology company that specializes in innovative biometric solutions, including advanced technologies like face recognition, iris scanning, and fingerprint identification, which are crucial for enhancing. FiberSensing, SA business profile on GlobalSpec. Preview of Fiber optic products supplier businesses in Portugal **.



Article Content

Review of Fiber Optic Displacement Sensors

Displacement measurements are of significant importance in a variety of critical scientific and engineering fields, such as gravitational wave detection, geophysical research, and manufacturing

Sebuah Kajian Pustaka:

Fiber optic-based displacement sensor is thus has gained enormous attentions specifically due to its immunity to EMI, electrically passive, compact, lightweight, high sensitivity and also high resistance

(PDF) Optical Fiber Sensor Technology in Portugal

A general overview of the R& D activity in fiber optic sensing developed over the last fifteen years in Portugal is given. Different topics are addressed, including interferometric, intensity

Fiber-optic sensing tech strives to move beyond the niche

The aim was to develop a range of fiber Bragg grating (FBG) sensors to measure strain, temperature, displacement, etc. for civil engineering, energy, aerospace, industrial, and R& D applications.

Fiber Optic Displacement Sensors | MTI

MTI Instruments provides high-performance fiber optic sensors and probes engineered for applications requiring large measurement ranges and extended standoff distances. These non-contact, modular

Products

Philtex designs and manufactures precision fiber optic displacement sensors for non-contact measurement in demanding industrial and research environments.

Reflective optical sensor for long-range and high-resolution ...

Abstract This paper describes a miniature optical displacement sensor with millimetric range and nanometric resolution. This kind of sensor should be integrated in a mesomachine able to

Fiber optic displacement sensor with a large extendable measurement ...

The proposed fiber optic displacement sensor guarantees a stable reflected signal acquisition for application in real industrial fields. Through a parametric study of the grating pitch of

HBK FiberSensing, S.A., profile with contact details and 12 photonics ...

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Development of an optical fibre sensor system for ground displacement ...

In this study, a standard optical fibre was used as a distributed strain sensor to simultaneously monitor multiple subterranean parameters: pore water pressure and bi-directional

HBK FiberSensing | LinkedIn

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Top 14 Optical Sensor Manufacturers in Portugal (2026) | ensun

Discover all relevant Optical Sensor Manufacturers in Portugal, including Vision-Box and PLUX Biosignals

HBK Fiber Sensing High-Sensitivity Accelerometer and Products

HBK FiberSensing provides optical interrogators which are specifically designed to measure the values generated by Fiber Bragg Grating (FBG) sensors. These interrogators are

Fiber optic displacement sensor

Find your fiber optic displacement sensor easily amongst the 9 products from the leading brands (Brüel & Kjaer, SCAIME, Micron Optics, ...) on DirectIndustry, the industry specialist for your professional

How many Fiber optic products suppliers are there in Portugal in 2026

Our list for Fiber optic products suppliers in Portugal is one of the most comprehensive in the industry. As of July, 2026, we have compiled data on 12 verified listings.

Twenty years have passed since the creation of FiberSensing, an

Today, the company HBK FiberSensing is at the forefront of the development and supply of fibre optic measurement and monitoring systems for critical physical assets and is preparing to

Design and experimental research on miniature fiber-optic displacement ...

In the paper, the structure and parameters of miniature all-fiber common-path fiber-optic displacement sensor is studied, the experimental platform for high-precision displacement calibration

Low-Cost Fiber Sensors for Displacement and Vibration Monitoring

The paper presents some fiber optic sensors that have been devised to provide a low-cost solution to monitor mechanical quantities, such as displacement, vibration amplitude and

FS61DSP: Optical Displacement Sensor | HBM

FS61DSP: Optical Displacement Sensor for Linear Variation of Position Based on the newLight® technology, FS61DSP Displacement Sensor is a ruggedized Fiber Bragg Grating (FBG) sensor

Fiber Optic Displacement Sensors and Their Applications

Optical fiber-based sensor technology offers the possibility of developing a variety of physical sensors for a wide range of physical parameters (Nalwa, 2004). Compared to conventional transducers, optical

Optical Fibre Sensors

The number of laboratory prototypes grew as the projects increased, but the most famous application would be in 2003 when optical fibre sensors were installed in the D. Luís I Bridge, in Porto, where

High-Sensitivity Displacement Sensor Using Few-Mode Optical Fibers

This paper presents a displacement sensor designed to achieve the Optical Vernier Effect (OVE) through a simple yet robust configuration, enhancing sensitivity and precision in small

Fiber Bragg grating based displacement sensors with low visual

The displacement sensing devices are formed by transparent small dimension holders and fiber Bragg gratings, with minimal intrusion and very low visual impact. They are relatively easy to

A novel sensor design for displacement measurement using plastic ...

The development of displacement sensors is essential in the physical sensor field as the other physical sensors can be derived from the displacement sensor. Here we present a novel

Fiber Optic Displacement Sensors

Fiber Optic Technology FS61DSP measures linear displacement with rugged Fiber Bragg Grating (FBG) technology and dual FBGs for temperature compensation. They are ideal for structural monitoring.

HBK FiberSensing Information

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HBK Fiber Sensing High-Sensitivity Accelerometer and Products

HBK FiberSensing, S.A., is a business unit of HBK – Hottinger Brüel & Kjær located in Porto, Portugal. It is dedicated to the development and production of advanced monitoring systems

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://adikor.eu>

Email: info@adikor.eu

Phone: +33 6 48 37 92 15

Address: 12 Rue de la Paix, 75002 Paris, France

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