

German Fiber Optic Sensor Brand



Article Overview

FiSens GmbH and engionic AG are among Germany's leading fiber optic sensor companies, recognized for their advanced Fiber Bragg Grating (FBG) technologies and high-precision optical sensing solutions.

FiSens GmbH

FiSens specializes in fiber Bragg grating (FBG) sensor arrays and fiber-integrated spectrometers, offering high multiplexing capability and robust performance in harsh environments . Founded as a spin-off from the Fraunhofer Heinrich-Hertz-Institute in 2017, FiSens has developed fully automated manufacturing processes for high-volume production of fiber optic sensors . Their sensors are widely applied in structural health monitoring, medical instruments, and industrial applications, with over one million FBG sensors produced in more than 100,000 fiber arrays . FiSens merged with 5lo.Tech in 2025, further strengthening its technological and market position .

engionic AG

The engionic group includes engionic Femto Gratings GmbH, engionic Fiber Optics GmbH, and engionic CNC GmbH, providing a comprehensive portfolio of fiber optic components and sensors . They are pioneers in fs-laser-written Fiber Bragg Gratings, offering unique technological advantages over conventional FBG solutions . Engionic serves medical technology, industrial monitoring, energy sectors, and oil & gas, delivering both custom OEM solutions and large-volume serial production . Their expertise spans fiber optic assembly, precision CNC components, and complete sen...

Article Content

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When exploring the sensor industry in Germany, several important factors come into play. The country is known for its strong

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The Germany Distributed Fiber Optic Sensor Oil Gas market sits at the intersection of advanced electronics

Germany Fiber Optic Sensor Market Size, Share & Overview 2035

The market share distribution among the segment values indicates Intrinsic sensors as the largest segment,

Top startups in Sensors in Germany (Dec, 2025)

Fos4X provides fiber optic sensors that are based on real-time algorithms and have dynamic signals on the system

Faseroptische Sensortechnologie | AP Sensing

Mit einer bewährten Erfolgsbilanz sorgen unsere Distributed Fiber Optic Sensing (DFOS)-Lösungen für zuverlässigen Schutz von

Fiber-optic sensor

A fiber-optic sensor is a sensor that uses optical fiber either as the sensing element ("intrinsic sensors"), or as a means of relaying

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Discover all relevant Sensor Manufacturers in Germany, including Rheonik Messtechnik GmbH and

18 Fiber Optic Sensor Manufacturers in 2026

18 Fiber Optic Sensor Manufacturers in 2026 This section provides an overview for fiber optic sensors as well as their applications

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Understanding these dynamics will provide valuable insights for anyone looking to enter or invest in the Optical Sensor industry in

fionec fiber optics – Optical Sensor Technology

fionec GmbH is technology leader when it comes to innovative precision optical fiber measurement systems and tailor-made fiber

Germany Fibre Optical Sensors Market Strategic Industry ...

The Germany Fibre Optical Sensors Market Research Report delivers a sharp, evidence-based assessment of market

Sensor Line | fiber optic sensor technology in traffic

Our fiber optic rail sensors Easy installation - EMV immune and noise free - Vertical wheel load Made in

Optical Sensors

Small optical sensors based on optical fibers and optical microresonators are explored in fields of aerospace, gas detection and

Distributed Fiber Optic Sensing Solutions | AP Sensing

Based on a proven track record our Distributed Fiber Optic Sensing (DFOS) solutions ensure reliable asset protection even in the

Fiber Optic Cables Suppliers in Germany

Locate Fiber Optic Cables suppliers, manufacturers & distributors in Germany. Interactive map of Germany provided.

Cutting-Edge Fiberoptic Sensing | FiSens GmbH

FiSens develops, manufactures, and markets accurate fiberoptic sensor solutions based on fiber Bragg grating (FBG) sensor arrays

Sensor technology

PyroScience is one of the world's leading manufacturers of innovative optical pH, oxygen, and temperature sensor

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Fiber optic sensors and fiber optics | Baumer international

A fiber optic sensor and two fiber optics made of plastic or glass fibers make up a fiber optic system. The

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Their fiber optic temperature sensors, featuring a GaAs-crystal for enhanced accuracy and fast response times, are designed for

Sensors companies from Germany ⇒ chemeurope

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FIBER-OPTIC SENSORS

Today, already with over 500 standard, application or customer specific fiber optic sensors, we take pride in working together with

35 Top Sensors Companies in Germany · July 2026 | F6S

Detailed info and reviews on 35 top Sensors companies and startups in Germany in 2026. Get the latest updates on

Review of Optical Fiber Sensors: Principles, Classifications and

Optical fiber sensors (OFSs) have emerged as essential tools in the monitoring of physical, chemical, and bio-medical

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Baumer – Passion for Sensors | Baumer Deutschland

Die Baumer Group ist einer der führenden Hersteller von Sensoren, Drehgebern, Messinstrumenten und Komponenten für die

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Optical Fiber Sensor Research and Industry in Germany

German fiber sensor research and industry achieved remarkable milestones in the 1980ies and 1990ies, such as first field tests of

Custom Fiber Optic Solutions & Optical Sensors | FOS

Discover precise fiber solutions for industrial applications. We specialize in custom fiber

Optical fiber sensor research and industry in Germany: review and

Since more than 30 years, the increased research, technology development and commercialization of optical fiber sensors combined

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