

Companies that manufacture fiber Bragg grating sensors



AI Overview

Leading manufacturers of fiber Bragg grating (FBG) sensors include Optromix, FiSens, Luna Innovations, Teraxion, 3S Photonics, and AtGrating. Key FBG Sensor Manufacturers:

- Optromix, Inc.:** Specializes in FBG sensors for harsh environments, offering high-speed, precise measurements for strain, temperature, pressure, and vibration monitoring in industrial and structural applications.
- FiSens GmbH:** Provides optical sensing solutions integrating FBG technology, suitable for industrial and research applications requiring precision measurement.
- Luna Innovations:** Offers FBG-based sensing systems for structural health monitoring, aerospace, and energy sectors, with a focus on distributed sensing and interrogator devices.
- Teraxion:** Develops precision-engineered FBG devices for telecommunications and optical sensing, emphasizing high-performance grating solutions.
- 3S Photonics:** Focuses on advanced photonic devices, including FBGs, leveraging R&D to innovate in optical sensing and communication applications.
- AtGrating:** Manufactures packaged FBG sensors for temperature, strain, pressure, displacement, acceleration, and tilt measurements, with robust packaging for harsh environments.
- Elliot Scientific Limited:** Offers custom FBG solutions tailored to specific customer requirements, enhancing flexibility in sensor deployment.
- Broptics Technology:** Produces high-quality FBG components for communication and sensing applications.
- FBGS International NV:** Specializes in FBG production for sensing and telecommunications, with a global presence and technology leadership.
- iXFiber:** Focuses on fiber optic sensing using FBGs for critical monitoring applications.

Applications of FBG Sensors FBG sensors are widely used for structural health monitoring, including bridges, aircraft wings, wind turbine blades, and nuclear reactors. They are also app...

Article Content

Fibre Bragg Grating Sensors and Interrogators

Our innovative sensing solutions are delivered by a mix of products including; FBG Sensors and Interrogators, and SmartSoft Applications Software for the Oil & Gas, Aerospace and Wind Energy

FIBER-BRAGG-SENSORS

Unique in the market is the fully integrated internal value chain within the engionic Group – from the production of Fiber Bragg Gratings (FBG) and CNC parts up to

Applications and Development of Multi-Core Optical Fibers

In this paper, an overview of the current status and future prospects of multi-core fiber manufacturing technology has been presented, and their limitations will be discussed. Some

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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 and principles. Also, please take a look at the list of 18 fiber optic sensor

9 Fiber Bragg Grating Manufacturers in 2026 | Metoree

Luna Innovations Manufacturer Fiber Bragg Gratings Website Founded: 1990 United States, Virginia Company Profile Address: 301 1st Street, SW, Suite 200, Roanoke, Virginia, United States of

[Fiber Bragg Gratings | Suppliers | Photonics Buyers" Guide | Photonics ...](#)

Designs, manufactures, and markets high reliability active and passive optical components and modules for space, telecom, industrial, medical, and R& D applications. Develops high-power fused

Deuterium Gas for Optical Fiber: Enhancing Performance ...

Deuterium enhances photosensitivity, allowing manufacturers to produce highly efficient Fiber Bragg Gratings (FBGs) and other precision optical structures.

[High-precision humidity calibration for variation of humidity ...](#)

In recent years, fiber Bragg grating (FBG) humidity sensors, with their strong resistance to electromagnetic interference, flexibility, corrosion resistance, and lightweight nature, have shown

Fiber Bragg Grating Market Size, Share & Forecast to 2032

Fiber Bragg Grating (FBG) technology is a core optical sensing platform used to measure strain, temperature, pressure, vibration, displacement, and acoustic signatures through wavelength shifts in

Advanced Photonics Solutions

We deliver advanced photonics solutions by combining fiber optic components, high-performance light sources, and integrated photonics. With expertise in fiber Bragg gratings, ultrashort pulse lasers, and

9 Fiber Bragg Grating Manufacturers in 2026 | Metoree

This section provides an overview for fiber bragg gratings as well as their applications and principles. Also, please take a look at the list of 9 fiber bragg grating manufacturers and their company rankings.

Fiber Optic FBG Fiber Bragg Grating Sensing Solutions | AtGrating

AtGrating is a professional company for optical fiber sensing. AtGrating offers industrial solutions by providing customized sensors and sensing instruments that add value, reduce uncertainty, and

Optical Fiber Sensors and Sensing Networks: Overview of the Main

Optical fiber sensors present several advantages in relation to other types of sensors. These advantages are essentially related to the optical fiber properties, i.e., small, lightweight,

Cutting-Edge Fiberoptic Sensing | FiSens GmbH

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

DFB Lasers | Technical Guide | SELECTION GUIDE

These single frequency laser diodes are used in applications such as gas sensing, LiDAR, quantum computing, telecommunications and atomic physics. This sub-category of

Fiber Bragg Grating Sensors | FBG Filters | Technica

We offer a variety of different Fiber Bragg Grating products including Fiber Bragg Grating Sensors, Chirped FBG and FBG Filters. Our products can be used in a variety of different industries, and are

Fiber Optic FBG Fiber Bragg Grating Sensing Solutions | AtGrating

As a fiber Bragg grating manufacturer in China, AtGrating specialized in the fields of FBG, FBG sensor, wavelength interrogator and other customized FBG products since 2010.

Biomedical Fiber Optic Pressure Sensors Market

Value Chain, Supply Chain, Cost and Profitability Analysis The value chain of biomedical fiber optic pressure sensors comprises raw material suppliers, component manufacturers, and

LUNA Earnings Report on 3/18/2026

Its offerings include optical time-domain reflectometers (OTDRs), dynamic strain sensors based on fiber Bragg grating technology, and high-resolution spectral analyzers designed for both

Worldwide Fiber-optical Thermometers Market 2026

Fiber Bragg Grating (FBG) sensors accounted for roughly USD 35.90 Million and 19.1% of 2025 revenue, underscoring their role as a smaller but steady contributor in regulated clinical

Contact Us

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