

German manufacturer of optical fiber grating sensing systems



Overview

FBGS is a Germany / Belgium based developer and manufacturer of high strength Fiber Bragg Gratings (FBGs), Interrogators, Sensors and custom-made fiber optic sensing solutions. AOS offers a number of telecommunication devices and optical Bragg grating sensor products. This automated process results in very high quality, cost effective Fiber Bragg Gratings. Advanced Optics Solutions (AOS) GmbH is an experienced manufacturer of fiber Bragg gratings and grating related products, such as DWDM filters, tuneable filters, wavelength lockers, ASE filters, and a lot of other scientific products; in small, medium, and large quantities. We develop, manufacture and distribute sensor systems for biological and environmental applications, for biotech & pharma, medical & life sciences, the food & beverage industries and for industrial and technical applications.



Article Content

Jan 09, 2026

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

Mar 29, 2026

Tailored fiber optic sensing components & solutions

All of our FBG components (DTG ®, FSG ®, AGF ®) stand out with unmatched mechanical and optical properties. Our interrogators are

Mar 22, 2026

Fiber Optic FBG Fiber Bragg Grating Sensing Solutions

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

Aug 24, 2025

Fiber Grating Sensors: Design, Fabrication, and Application

Dear Colleagues, Over the past forty years, fiber gratings have been intensively investigated and widely used in sensing, fiber laser, and optical

May 18, 2026

FBG buyers guide: Trusted suppliers and products

Advanced Optics Solutions (AOS) GmbH is an experienced manufacturer of fiber Bragg gratings and grating related products, such as DWDM filters, tuneable filters, wavelength lockers, ASE filters, and

Jan 22, 2026

Fiber Bragg Grating Sensors: Design, Applications, and

Fiber Bragg grating (FBG) sensors have emerged as advanced tools for monitoring a wide range of physical parameters in various fields, including

Jan 10, 2026

Fiber Bragg Grating-Based Sensors and Systems

This Special Issue Fiber Bragg Grating-Based Sensors and Systems presents a collection of cyber-physical tasks that are far from completely solved. We hope this Special Issue will serve as a

Apr 06, 2026

What Is Fiber Bragg Grating? The Ultimate Guide to

The answer often lies in a remarkable technology hidden inside a hair-thin optical fiber: Fiber Bragg Grating (FBG). In this comprehensive guide,

Apr 17, 2026

Semiconductor & System Solutions | Infineon Technologies

Infineon Semiconductor & System Solutions - MCUs, sensors, automotive & power management ICs, memories, USB, Bluetooth, WiFi, LED drivers, radiation h

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(PDF) Recent Advances in Fiber Bragg Grating Sensing

PDF | In the vast realm of optical fiber sensing, where precision and innovation converge, Fiber Bragg Gratings (FBGs) stand as luminaries, casting...

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Growth Forecast for Germany High Speed Fiber Optic Sensor

Germany's High Speed Fiber Optic Sensor market is gaining significant traction, driven by the increasing demand for advanced monitoring and measurement systems across various sectors such as ...

May 27, 2026

Fiber Optic Sensors Global Market Analysis and 10 Year Forecast

Quasi-Continuous Distributed sensing (optical fiber line used in a system) utilizes Fiber Bragg Gratings (FBGs), which have been employed as sensing elements where dense (closely

Oct 13, 2025

Optical sensing using fiber bragg gratings: Fundamentals and ...

In this article, Fiber Bragg Grating (FBG) technology used to implement fiber sensors is explained and some applications in temperature and strain measurements are presented. In the first

Dec 27, 2025

(PDF) Optical Fiber Sensor Research and Industry in

Recent progress and the state of the art of optical fiber sensing in Germany are demonstrated by examples of advanced fiber Bragg grating and

Oct 19, 2025

Fiber Bragg Grating Sensors (FBGS)

FBGS is a Germany/Belgium based engineer and maker of high quality Fiber Bragg Gratings (FBGs), Interrogators, Sensors, and uniquely crafted fiber optic

Dec 03, 2025

Multi-Core Fiber Bragg Grating and Its Sensing Application

With the increase in the demand for large-capacity optical communication capacity, multi-core optical fiber (MCF)

Dec 03, 2025

OE-20200450V 1.

Abstract. Fiber Bragg grating has embraced the area of fiber optics since the early days of its discovery, and most fiber optic sensor systems today make use of fiber Bragg grating technology. Researchers

Jul 07, 2025

Optical Sensor Technology

Fiber Optic Meters, Special Systems & Imaging Solutions for O₂, pH & CO₂ Measurements As versatile as our optical sensors are the electro-optical

Nov 29, 2025

Fiber Bragg grating sensors for aerospace applications:

Fiber optic sensing systems provide a suitable alternative to electrical-based sensors owing to their lightweight, freedom from electric sparking due to

Jun 30, 2025

FIBER OPTIC SENSORS BASED ON FS-LASER-WRITTEN FIBER

The group's technological focus is on the manufacturing of fiber optic sensors and components – from single unit individual development up to large scale serial production.

Sep 06, 2025

Optical Component Startup Tracker

The number of venture-backed optical component startups has exploded - the Optical Component Start-Up Tracker identifies these companies

Apr 11, 2026

FBG Fiber Optic Sensor Systems Manufacturer | AtGrating

AtGrating is specialised in the manufacturing of fiber optic sensor systems. With features in high precision, dynamic, continuous lifetime health monitoring, and

Nov 24, 2025

Fiber Bragg Gratings – Buying Guide & Suppliers

This fiber Bragg gratings buying guide provides technical background, comparison of major types, selection criteria, and an overview of suppliers.

Mar 14, 2026

9 Fiber Bragg Grating Manufacturers in 2026 | Metoree

Optromix, Inc. Manufacturer Fiber Bragg Gratings Website Founded: 2004 United States, Massachusetts Company Profile Address: 233 Needham St., Suite 540, Newton, Massachusetts,

Jan 13, 2026

Fiber Bragg grating-based optical filters for high-resolution sensing ...

In-fiber Bragg grating filters continue to proliferate, and their applications expand with the rapid advancement of fiber optic component fabrication techniques.

Mathematical models for the

Contact Us

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