

# **Fiber Optic Sensors Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Sensing Type (Temperature Sensing, Pressure Sensing, Acoustic Sensing, Strain Sensing and Others), End User (Oil and Gas, Manufacturing, Infrastructure, Aerospace and Defense, Power and Utilities and Others), Application (Pipeline Monitoring, Upstream Application, Fire Detection in Critical Assets, High Voltage/Power Cable Monitoring, CCS/CCUS Application, Others), and Geography**

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## **Abstracts**

The fiber optic sensors market size is expected to reach US\$ 6.76 billion by 2031 from 3.61 billion in 2024, at an estimated CAGR of 9.7% from 2025 to 2031.

By Geography the Fiber Optic Sensors market is segmented into North America, Europe, Asia Pacific, Middle East and Africa, and South and Central America. In 2024, Europe held a significant share in the market. Recognizing that connectivity is as vital as traditional utilities, the European Union (EU) has launched a nearly €900 million (US\$ 973.3 million) investment initiative aimed at accelerating the deployment of 5G technology and fiber optic networks across its member states in October 2024. This funding is a cornerstone of the EU's broader Digital Decade strategy, which aims to ensure that all European households have access to gigabit-speed internet and comprehensive 5G coverage by 2030. These developments are essential for boosting Europe's global competitiveness and digital economy, as well as bridging the digital

divide between urban centers and underserved rural areas.

At the heart of this initiative is the build-out of fiber optic infrastructure, which serves as the backbone for high-speed, low-latency communications essential to modern applications. As fiber optic networks expand, so does the foundation for deploying fiber optic sensors, which are increasingly critical in transportation, energy, healthcare, and industrial automation sectors. These sensors enable real-time monitoring, data collection, and predictive maintenance, enhancing operational efficiency and safety. The concurrent deployment of 5G technology further amplifies these capabilities by facilitating fast, reliable, and responsive communication networks, paving the way for autonomous vehicles, smart cities, and advanced IoT systems. Together, these investments are transforming Europe's digital landscape and positioning the region as a leader in the global fiber optic sensor market.

The Fiber Optic Sensors market analysis has been carried out by considering the following segments: Sensing Type, End User, Application.

Based on sensing type, the market is segmented into temperature sensing, pressure sensing, acoustic sensing, strain sensing, and others. Maintaining a specific temperature is important in several applications. For instance, in medical stores, products are stored at a certain temperature. Moreover, the responsiveness and accuracy of temperature sensors are critical in inpatient monitoring facilities. The main purpose of deploying temperature sensors is to get updates when the environment becomes too hot or cold, which allows the facility operators to take preventive actions to ensure that the performance of the entire equipment is not compromised. Temperature sensors can be installed in motors, surface plates, home applications, computers, industrial equipment, warning electric radiators, motorsport vehicles' exhaust gas systems, and alcohol breathalyzers, among others. These sensors also find applications in transit, power and utilities, calibration and instrumentation, heat exchangers, industrial processes, drilling, heating/cooling systems, laboratories, and energy infrastructure. Companies such as Opsens Solutions and Luna Innovations offer various fiber optic temperature sensors. With the ongoing proliferation of power & utilities and other manufacturing industries, the adoption of temperature sensors would also increase in the future.

Moreover, factor such as surging applications in oil and gas sector and burgeoning demand for structural health monitoring propel the fiber optic sensors market growth. Also, miniaturization and portability is expected to bring new fiber optic sensors market trends in the coming years.

Based on end user, the fiber optic sensor market is segmented into oil and gas, manufacturing, infrastructure, aerospace and defense, power and utilities, and others. The safest and common mode of transporting oil and gas is through pipelines. These pipelines need to withstand mudslides, landslides, or any other geological disasters; they are also exposed to mechanical construction processes. Fiber optic sensors are used for downhole pressure and temperature monitoring, pipeline leak detection, flow assurance, and well integrity analysis. Fiber optic sensors provide a wide range of data about environmental conditions, including temperature, oil reserve levels, and equipment performance, at oil and gas plants. These sensors offer key advantages such as high sensitivity, immunity to electromagnetic interference, long-distance signal transmission, and resilience in high-temperature and high-pressure conditions. Their non-electrical nature makes them ideal for explosive or flammable zones, a frequent concern in oil and gas operations. The increasing complexity of offshore and deepwater projects, stricter environmental and safety regulations, and the rising need for predictive maintenance and asset integrity solutions result in a consistent demand for fiber optic sensors in the oil and gas sector.

Baumer Holding AG, Pepperl+Fuchs SE, Wenglor Sensoric GmbH, NEC Corp, Proximion AB, OMRON Corp, Sick AG, Omnisens SA, FISO Technologies, Luna Innovations, Honeywell International Inc, Halliburton, Schlumberger NV, Yokogawa Electric Corp, Keyence Corporation are among the key players profiled in the Fiber Optic Sensors market report.

The Fiber Optic Sensors market forecast is estimated on the basis of various secondary and primary research findings such as key company publications, association data, and databases. Exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the Fiber Optic Sensors market growth. The process also helps obtain an overview and forecast of the market with respect to all the market segments. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights. This process includes industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders, specializing in the Fiber Optic Sensors market.

Reason to buy

Save and reduce time carrying out entry-level research by identifying the growth,

size, leading players and segments in the fiber optic sensor market.

Highlights key business priorities in order to assist companies to realign their business strategies

The key findings and recommendations such as specific country and segmental insight highlights crucial progressive industry trends in the fiber optic sensor market, thereby allowing players across the value chain to develop effective long-term strategies.

Develop/modify business expansion plans by using substantial growth offering developed and emerging markets

Scrutinize in-depth market trends and outlook coupled with the factors driving the market, as well as those hindering it

Enhance the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation, pricing and distribution

## The List of Companies - Fiber Optic Sensors Market

Baumer Holding AG

Pepperl+Fuchs SE

Wenglor Sensoric GmbH

NEC Corp

Proximion AB

OMRON Corp

Sick AG

Omnisens SA

FISO Technologies

Luna Innovations

Honeywell International Inc

Halliburton

Schlumberger NV

Yokogawa Electric Corp

Keyence Corporation

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