

Global Fiber-Optic Sensors Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

Fiber optic sensors are fiber-based devices for sensing some quantity, typically temperature or mechanical strain, but sometimes also displacements, vibrations, pressure, acceleration, rotations or concentrations of chemical species.

The general principle of such devices is that light from a laser (often a single-frequency fiber laser) or from a superluminescent source is sent through an optical fiber, experiences subtle changes of its parameters either in the fiber or in one or several fiber Bragg gratings, and then reaches a detector arrangement which measures these changes.

Compared with other types of sensors, fiber optic sensors exhibit a number of advantages:

? They consist of electrically insulating materials (no electric cables are required), which makes possible their use e.g. in high-voltage environments.

? They can be safely used in explosive environments, because there is no risk of electrical sparks, even in the case of defects.

? They are immune to electromagnetic interference (EMI), even to nearby lightning strikes, and do not themselves electrically disturb other devices.

? Their materials can be chemically passive, i.e., do not contaminate their surroundings and are not subject to corrosion.

? They have a very wide operating temperature range (much wider than is possible for many electronic devices).

? They have multiplexing capabilities: multiple sensors in a single fiber line can be interrogated with a single optical source

According to our (Global Info Research) latest study, the global Fiber-Optic Sensors market size was valued at USD 1418.1 million in 2022 and is forecast to a readjusted size of USD 1821 million by 2029 with a CAGR of 3.6% during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

Micron Optics, Honeywell, FISO Technologies, Omron and FBGS TECHNOLOGIES GMBH are the top 5 manufacturers of global Fiber Optic Sensors, with about 39% market shares.

This report is a detailed and comprehensive analysis for global Fiber-Optic Sensors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2023, are provided.

Key Features:

Global Fiber-Optic Sensors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2018-2029

Global Fiber-Optic Sensors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2018-2029

Global Fiber-Optic Sensors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (USD/Unit), 2018-2029

Global Fiber-Optic Sensors market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (USD/Unit), 2018-2023

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Fiber-Optic Sensors

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Fiber-Optic Sensors market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Keyence, Luna Innovations, Baumer, Micron Optics and Honeywell, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Market Segmentation

Fiber-Optic Sensors market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Intrinsic Fiber-Optic Sensors

Extrinsic Fiber-Optic Sensors

Market segment by Application

Measurement of Temperature

Measurement of Pressure

Measurement of Liquid Level

Measurement of Displacement

Others

Major players covered

Keyence

Luna Innovations

Baumer

Micron Optics

Honeywell

FISO Technologies

Omron

FBGS Technologies GmbH

Proximion

Smart Fibres Limited

Sensornet

IFOS

Northrop Grumman

O/E LAND, Inc

KVH

Photonics Laboratories

Chiral Photonics

FBG TECH

OPTOcon GmbH

Redondo Optics

Broptics

Wutos

Pegasus(Qingdao) Optoelectronics

Beiyang

Bandweaver

DSC

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Fiber-Optic Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Fiber-Optic Sensors, with price, sales, revenue and global market share of Fiber-Optic Sensors from 2018 to 2023.

Chapter 3, the Fiber-Optic Sensors competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Fiber-Optic Sensors breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2022. and Fiber-Optic Sensors market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Fiber-Optic Sensors.

Chapter 14 and 15, to describe Fiber-Optic Sensors sales channel, distributors, customers, research findings and conclusion.

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