

# Fiber Optic Sensors: Global Markets

<https://marketpublishers.com/r/F28E5E45B5EEN.html>

Date: May 2021

Pages: 174

Price: US\$ 2,750.00 (Single User License)

ID: F28E5E45B5EEN

## Abstracts

### Report Scope

The global fiber optic sensor market has been segment based on type, component, application and geography.

Based on technology, the fiber optic sensor market has been segmented into Fabry-Pérot (FP)-based, coated fibers, fiber optic gyroscopes (FOG), fiber Bragg gratings (FBG), Brillouin-based, Rayleigh-based and Raman-based.

Based on component, the fiber optic sensor market has been segmented into transmitters and receivers, optical amplifiers, dispersion compensators, fiber optic cables, and others.

Based on application, the fiber optic sensor market has been categorized into defense, energy, medical, industrial, security, transportation, structural and others.

Geographical coverage of the report includes North America, Europe, Asia-Pacific and Rest of the World (South America, the Middle East and Africa).

Moreover, the report also includes industry and competitive analysis, patent analysis and company profiles.

Using 2019 as the base year, the report provides estimated market data for the forecast period from 2020 through 2025. It also focuses on the major trends and challenges that affect the market and the vendor landscape. The report estimates the global market for fiber optic sensors in 2019 and provides projections of the expected market size through 2025.

## Report Includes:

90 data tables and 46 additional tables

An updated review of the global market for fiber optic sensors

Analyses of the global market trends, with data from 2019-2020, estimates for 2022 and projections of compound annual growth rates (CAGRs) through 2025

Discussion of market opportunities and market potential for the innovation-driven fiber optic sensors market, and the major regions and countries involved in such developments

Estimation of the current market size and market forecast for fiber optic sensors, and corresponding market share analysis by type of sensor, component, application and geographic region

Identification of segments with high growth potential and insight into the future applications of each given segments and subsegments

Information pertaining to key trends related to the applications, components and sensor types that shape and influence the fiber optic sensor market

Evaluation of major stakeholders in the market and competitive landscape for the market leaders

A relevant patent analysis

Company profiles of the leading players operating in the global fiber optic sensors market, including Amphenol Corp., Corning, Emcore, Luna Innovations, Omron, Sumitomo Electric and Yokogawa

## Contents

### **CHAPTER 1 INTRODUCTION**

Study Goals and Objectives  
Reasons for Doing This Study  
Scope of Report  
Intended Audience  
Information Sources  
Methodology  
Geographic Breakdown  
Analyst's Credentials  
BCC Custom Research  
Related BCC Research Reports

### **CHAPTER 2 SUMMARY AND HIGHLIGHTS**

### **CHAPTER 3 MARKET OVERVIEW**

Introduction  
Types of Fiber Optic Sensors  
Intrinsic Sensors  
Extrinsic Sensors  
Roadmap of Fiber Optic Sensors  
Future Outlook and Expectations  
Value Chain Analysis  
Impact of COVID-19 on the Market for Fiber Optic Sensors  
Market Dynamics  
Drivers  
Market Opportunities  
Market Restraints

### **CHAPTER 4 MARKET BREAKDOWN BY COMPONENT**

Introduction  
Transmitters and Receivers  
Optical Amplifiers  
Dispersion Compensators  
Fiber Optic Cables

Others

## **CHAPTER 5 MARKET BREAKDOWN BY TECHNOLOGY**

Introduction

Fabry-Perot Interferometers

Fiber Optic Gyroscopes

Fiber Bragg Gratings (FBGs)

Fiber Brillouin/Raman

Coated Fiber Sensors

Others

## **CHAPTER 6 MARKET BREAKDOWN BY APPLICATION**

Introduction

Defense

Energy

Medical

Security

Transportation

Industrial

Structural

Other Applications

## **CHAPTER 7 MARKET BREAKDOWN BY REGION**

Introduction

North America

Europe

Asia-Pacific (APAC)

Rest of the World

## **CHAPTER 8 PATENT ANALYSIS**

Distribution of Patents Issued per Year

Significant Patents on Fiber Optic Sensors

## **CHAPTER 9 COMPANY PROFILES**

AMPHENOL CORP.  
ANALOG DEVICES  
BALLUFF GMBH  
BANNER ENGINEERING  
BAUMER HOLDING AG  
BROADCOM  
CIENA CORP.  
CORNING  
COHERENT INC.  
EMCORE CORP.  
FBGS  
FISO TECHNOLOGIES INC.  
HALLIBURTON CO.  
HAMAMATSU PHOTONICS K.K.  
HITACHI ABB POWER GRIDS  
LEUZE ELECTRONIC GMBH + CO. KG  
LUNA INNOVATIONS INC.  
MOLEX LLC  
NEWPORT CORP.  
OMRON CORP.  
OPSENS SOLUTIONS  
PROXIMION AB  
ROCKWELL AUTOMATION INC.  
SUMITOMO ELECTRIC INDUSTRIES LTD.  
SCHLUMBERGER LTD.  
SENSURON  
TE CONNECTIVITY  
YOKOGAWA ELECTRIC CORP.

## List Of Tables

### LIST OF TABLES

Summary Table: Global Market for Fiber Optic Sensors, by Application, Through 2025

Table 1: Global Market for Fiber Optic Sensors, by Component, Through 2025

Table 2: Global Market for Transmitters and Receivers, by Technology, Through 2025

Table 3: Global Market for Transmitters and Receivers, by Application, Through 2025

Table 4: Global Market for Transmitters and Receivers, by Region, Through 2025

Table 5: Global Market for Optical Amplifiers, by Technology, Through 2025

Table 6: Global Market for Optical Amplifiers, by Application, Through 2025

Table 7: Global Market for Optical Amplifiers, by Region, Through 2025

Table 8: Global Market for Dispersion Compensators, by Technology, Through 2025

Table 9: Global Market for Dispersion Compensators, by Application, Through 2025

Table 10: Global Market for Dispersion Compensators, by Region, Through 2025

Table 11: Global Market for Fiber Optic Cables, by Technology, Through 2025

Table 12: Global Market for Fiber Optic Cables, by Application, Through 2025

Table 13: Global Market for Fiber Optic Cables, by Region, Through 2025

Table 14: Global Market for the Others Category of Components, by Technology, Through 2025

Table 15: Global Market for the Others Category of Components, by Application, Through 2025

Table 16: Global Market for the Others Category Components, by Region, Through 2025

Table 17: Global Market for Fiber Optic Sensors, by Technology, Through 2025

Table 18: Global Market for Fabry-Pérot Interferometers, by Component, Through 2025

Table 19: Global Market for Fabry-Pérot Interferometers, by Application, Through 2025

Table 20: Global Market for Fabry-Pérot Interferometers, by Region, Through 2025

Table 21: Global Market for Fiber Optic Gyroscope Sensors, by Component, Through 2025

Table 22: Global Market for Fiber Optic Gyroscope Sensors, by Application, Through 2025

Table 23: Global Market for Fiber Optic Gyroscope Sensors, by Region, Through 2025

Table 24: Global Market for Fiber Bragg Gratings Sensors, by Component, Through 2025

Table 25: Global Market for Fiber Bragg Gratings Sensors, by Application, Through 2025

Table 26: Global Market for Fiber Bragg Gratings Sensors, by Region, Through 2025

Table 27: Global Market for Fiber Brillouin or Raman Sensors, by Component, Through 2025

2025

Table 28: Global Market for Fiber Brillouin or Raman Sensors, by Application, Through 2025

Table 29: Global Market for Fiber Brillouin or Raman Sensors, by Region, Through 2025

Table 30: Global Market for Coated Fiber Sensors, by Component, Through 2025

Table 31: Global Market for Coated Fiber Sensors, by Application, Through 2025

Table 32: Global Market for Coated Fiber Sensors, by Region, Through 2025

Table 33: Global Market for Fiber Optic Sensors Based on Other Types of Technologies, by Component, Through 2025

Table 34: Global Market for Fiber Optic Sensors Based on Other Types of Technologies, by Application, Through 2025

Table 35: Global Market for Fiber Optic Sensors Based on Other Types of Technologies, by Region, Through 2025

Table 36: Global Market for Fiber Optic Sensors, by Application, Through 2025

Table 37: Global Market for Fiber Optic Sensors in Defense Applications, by Component, Through 2025

Table 38: Global Market for Fiber Optic Sensors in Defense Applications, by Technology, Through 2025

Table 39: Global Market for Fiber Optic Sensors in Defense Applications, by Region, Through 2025

Table 40: Global Market for Fiber Optic Sensors in Energy Applications, by Component, Through 2025

Table 41: Global Market for Fiber Optic Sensors in Energy Applications, by Technology, Through 2025

Table 42: Global Market for Fiber Optic Sensors in Energy Applications, by Region, Through 2025

Table 43: Global Market for Fiber Optic Sensors in Medical Applications, by Component, Through 2025

Table 44: Global Market for Fiber Optic Sensors in Medical Applications, by Technology, Through 2025

Table 45: Global Market for Fiber Optic Sensors in Medical Applications, by Region, Through 2025

Table 46: Global Market for Fiber Optic Sensors in Security Applications, by Component, Through 2025

Table 47: Global Market for Fiber Optic Sensors in Security Applications, by Technology, Through 2025

Table 48: Global Market for Fiber Optic Sensors in Security Applications, by Region, Through 2025

Table 49: Global Market for Fiber Optic Sensors in Transportation Applications, by

Component, Through 2025

Table 50: Global Market for Fiber Optic Sensors in Transportation Applications, by Technology, Through 2025

Table 51: Global Market for Fiber Optic Sensors in Transportation Applications, by Region, Through 2025

Table 52: Global Market for Fiber Optic Sensors in Industrial Applications, by Component, Through 2025

Table 53: Global Market for Fiber Optic Sensors in Industrial Applications, by Technology, Through 2025

Table 54: Global Market for Fiber Optic Sensors in Industrial Applications, by Region, Through 2025

Table 55: Global Market for Fiber Optic Sensors in Structural Applications, by Component, Through 2025

Table 56: Global Market for Fiber Optic Sensors in Structural Applications, by Technology, Through 2025

Table 57: Global Market for Fiber Optic Sensors in Structural Applications, by Region, Through 2025

Table 58: Global Market for Fiber Optic Sensors in Other Applications, by Component, Through 2025

Table 59: Global Market for Fiber Optic Sensors in Other Applications, by Technology, Through 2025

Table 60: Global Market for Fiber Optic Sensors in Other Applications, by Region, Through 2025

Table 61: Global Market for Fiber Optic Sensors, by Region, Through 2025

Table 62: North American Market for Fiber Optic Sensors, by Component, Through 2025

Table 63: North American Market for Fiber Optic Sensors, by Technology, Through 2025

Table 64: North American Market for Fiber Optic Sensors, by Application, Through 2025

Table 65: European Market for Fiber Optic Sensors, by Component, Through 2025

Table 66: European Market for Fiber Optic Sensors, by Technology, Through 2025

Table 67: European Market for Fiber Optic Sensors, by Application, Through 2025

Table 68: APAC Market for Fiber Optic Sensors, by Component, Through 2025

Table 69: APAC Market for Fiber Optic Sensors, by Technology, Through 2025

Table 70: APAC Market for Fiber Optic Sensors, by Application, Through 2025

Table 71: RoW Market for Fiber Optic Sensors, by Component, Through 2025

Table 72: RoW Market for Fiber Optic Sensors, by Technology, Through 2025

Table 73: RoW Market for Fiber Optic Sensors, by Application, Through 2025

Table 74: Patents Issued on Fiber Optic Sensors, by Year, 2016-2020



Table 75: Amphenol Corp.: Net Revenue, 2019
Table 76: Amphenol Corp.: Fiber Optic Products
Table 77: Analog Devices: Net Revenue, 2018-2020
Table 78: Analog Devices: Products
Table 79: Analog Devices: Recent Developments, 2019
Table 80: Balluff: Net Revenue, 2020
Table 81: Balluff: Products
Table 82: Balluff: Recent Developments, 2014 and 2017
Table 83: Banner Engineering: Products
Table 84: Banner Engineering: Recent Developments, 2016-2020
Table 85: Baumer: Products
Table 86: Baumer: Recent Developments, 2016
Table 87: Broadcom: Net Revenue, 2019 and 2020
Table 88: Broadcom: Products
Table 89: Broadcom: Recent Developments, 2015
Table 90: Ciena: Net Revenue, 2019 and 2020
Table 91: Ciena: Products
Table 92: Ciena: Recent Developments, 2015
Table 93: Corning: Net Revenue, 2019 and 2020
Table 94: Corning: Products
Table 95: Corning: Recent Developments, 2015-2020
Table 96: Coherent: Net Revenue, 2017-2019
Table 97: Coherent: Products
Table 98: Emcore: Net Revenue, 2018 and 2019
Table 99: Emcore: Products
Table 100: Emcore: Recent Developments, 2015-2019
Table 101: FBGS: Products
Table 102: FBGS: Recent Developments, 2019
Table 103: FISO Technologies: Products
Table 104: Halliburton: Net Revenue, 2019 and 2020
Table 105: Halliburton: Products
Table 106: Hamamatsu.: Net Revenue, 2018 and 2019
Table 107: Hamamatsu.: Products
Table 108: Hamamatsu.: Recent Developments, 2015-2020
Table 109: Hitachi ABB Power Grids: Products
Table 110: Hitachi ABB Power Grids: Recent Developments, 2020
Table 111: Leuze Electronic: Products
Table 112: Luna Innovations: Net Revenue, 2019 and 2020
Table 113: Luna Innovations: Products

Table 114: Luna Innovations: Recent Developments, 2018-2020
Table 115: Molex: Products
Table 116: Molex: Recent Developments, 2018 and 2019
Table 117: Newport: Products
Table 118: Omron.: Net Revenue, 2018 and 2019
Table 119: Omron: Products
Table 120: Omron: Recent Developments, 2019
Table 121: Opsens Solutions: Products
Table 122: Proximion: Products
Table 123: Rockwell Automation: Products
Table 124: Sumitomo Electric.: Net Revenue, 2018 and 2019
Table 125: Sumitomo Electric: Products
Table 126: Sumitomo Electric: Recent Developments, 2019-2020
Table 127: Schlumberger: Net Revenue, 2019 and 2020
Table 128: Schlumberger: Products
Table 129: Sensuron: Products
Table 130: Sensuron: Recent Developments, 2019
Table 131: TE Connectivity: Net Revenue, 2018-2020
Table 132: TE Connectivity: Products
Table 133: TE Connectivity: Recent Developments, 2020
Table 134: Yokogawa: Net Revenue, 2019 and 2020
Table 135: Yokogawa: Products
Table 136: Yokogawa: Recent Developments, 2016-2021

## List Of Figures

### LIST OF FIGURES

Summary Figure A: Global Market Shares of Fiber Optic Sensors, by Application, 2020\*

Summary Figure B: Global Market Shares of Fiber Optic Sensors, by Application, 2025

Figure 1: Value Chain Analysis of the Market for Fiber Optic Sensors

Figure 2: Global Market Shares of Fiber Optic Sensors, by Component, 2020

Figure 3: Global Market Shares of Fiber Optic Sensors, by Component, 2025

Figure 4: Global Market Shares of Transmitters and Receivers, by Technology, 2020

Figure 5: Global Market Shares of Transmitters and Receivers, by Technology, 2025

Figure 6: Global Market Shares of Transmitters and Receivers, by Application, 2020

Figure 7: Global Market Shares of Transmitters and Receivers, by Application, 2025

Figure 8: Global Market Shares of Transmitters and Receivers, by Region, 2020

Figure 9: Global Market Shares of Transmitters and Receivers, by Region, 2025

Figure 10: Global Market Shares of Fiber Optic Cables, by Technology, 2020

Figure 11: Global Market Shares of Fiber Optic Cables, by Technology, 2025

Figure 12: Global Market Shares of Fiber Optic Cables, by Application, 2020

Figure 13: Global Market Shares of Fiber Optic Cables, by Application, 2025

Figure 14: Global Market Shares of Fiber Optic Cables, by Region, 2020

Figure 15: Global Market Shares of Fiber Optic Cables, by Region, 2025

Figure 16: Global Market Shares of Fiber Optic Sensors, by Technology, 2020

Figure 17: Global Market Shares of Fiber Optic Sensors, by Technology, 2025

Figure 18: Global Market for Fabry-Pérot Interferometers, by Component, 2020

Figure 19: Global Market for Fabry-Pérot Interferometers, by Component, 2025

Figure 20: Global Market for Fabry-Pérot Interferometers, by Application, 2020

Figure 21: Global Market for Fabry-Pérot Interferometers, by Application, 2025

Figure 22: Global Market for Fabry-Pérot Interferometers, by Region, 2020

Figure 23: Global Market for Fabry-Pérot Interferometers, by Region, 2025

Figure 24: Global Market Shares of Fiber Optic Gyroscope Sensors, by Component, 2020

Figure 25: Global Market Shares of Fiber Optic Gyroscope Sensors, by Component, 2025

Figure 26: Global Market Shares of Fiber Optic Gyroscope Sensors, by Application, 2020

Figure 27: Global Market Shares of Fiber Optic Gyroscope Sensors, by Application, 2025

Figure 28: Global Market Shares of Fiber Optic Gyroscope Sensors, by Region, 2020

Figure 29: Global Market Shares of Fiber Optic Gyroscope Sensors, by Region, 2025

Figure 30: Global Market Shares of Fiber Bragg Gratings Sensors, by Component, 2020

Figure 31: Global Market Shares of Fiber Bragg Gratings Sensors, by Component, 2025

Figure 32: Global Market Shares of Fiber Bragg Gratings Sensors, by Application, 2020

Figure 33: Global Market Shares of Fiber Bragg Gratings Sensors, by Application, 2025

Figure 34: Global Market Shares of Fiber Bragg Gratings Sensors, by Region, 2020

Figure 35: Global Market Shares of Fiber Bragg Gratings Sensors, by Region, 2025

Figure 36: Global Market Shares of Fiber Brillouin or Raman Sensors, by Component, 2020

Figure 37: Global Market Shares of Fiber Brillouin or Raman Sensors, by Component, 2025

Figure 38: Global Market Shares of Fiber Brillouin or Raman Sensors, by Application, 2020

Figure 39: Global Market Shares of Fiber Brillouin or Raman Sensors, by Application, 2025

Figure 40: Global Market Shares of Fiber Brillouin or Raman Sensors, by Region, 2020

Figure 41: Global Market Shares of Fiber Brillouin or Raman Sensors, by Region, 2025

Figure 42: Global Market for Coated Fiber Sensors, by Component, 2020

Figure 43: Global Market for Coated Fiber Sensors, by Component, 2025

Figure 44: Global Market for Coated Fiber Sensors, by Application, 2020

Figure 45: Global Market for Coated Fiber Sensors, by Application, 2025

Figure 46: Global Market for Coated Fiber Sensors, by Region, 2020

Figure 47: Global Market for Coated Fiber Sensors, by Region, 2025

Figure 48: Global Market Shares of Fiber Optic Sensors, by Application, 2020

Figure 49: Global Market Shares of Fiber Optic Sensors, by Application, 2025

Figure 50: Global Market Shares of Fiber Optic Sensors in Defense Applications, by Component, 2025

Figure 51: Global Market Shares of Fiber Optic Sensors in Defense Applications, by Technology, 2020

Figure 52: Global Market Shares of Fiber Optic Sensors in Defense Applications, by Technology, 2025

Figure 53: Global Market Shares of Fiber Optic Sensors in Defense Applications, by Region, 2020

Figure 54: Global Market Shares of Fiber Optic Sensors in Defense Applications, by Region, 2025

Figure 55: Global Market Shares of Fiber Optic Sensors in Energy Applications, by Component, 2020

Figure 56: Global Market Shares of Fiber Optic Sensors in Energy Applications, by Component, 2025

Figure 57: Global Market Shares of Fiber Optic Sensors in Energy Applications, by

Technology, 2020

Figure 58: Global Market Shares of Fiber Optic Sensors in Energy Applications, by Technology, 2025

Figure 59: Global Market Shares of Fiber Optic Sensors in Energy Applications, by Region, 2020

Figure 60: Global Market Shares of Fiber Optic Sensors in Energy Applications, by Region, 2025

Figure 61: Global Market Shares of Fiber Optic Sensors in Medical Applications, by Component, 2020

Figure 62: Global Market Shares of Fiber Optic Sensors in Medical Applications, by Component, 2025

Figure 63: Global Market Shares of Fiber Optic Sensors in Medical Applications, by Technology, 2020

Figure 64: Global Market Shares of Fiber Optic Sensors in Medical Applications, by Technology, 2025

Figure 65: Global Market Shares of Fiber Optic Sensors in Medical Applications, by Region, 2020

Figure 66: Global Market Shares of Fiber Optic Sensors in Medical Applications, by Region, 2025

Figure 67: Global Market Shares of Fiber Optic Sensors, by Region, 2020

Figure 68: Global Market Shares of Fiber Optic Sensors, by Region, 2025

Figure 69: North American Market Shares of Fiber Optic Sensors, by Component, 2020

Figure 70: North American Market Shares of Fiber Optic Sensors, by Component, 2025

Figure 71: North American Market Shares of Fiber Optic Sensors, by Technology, 2020

Figure 72: North American Market Shares of Fiber Optic Sensors, by Technology, 2025

Figure 73: North American Market Shares of Fiber Optic Sensors, by Application, 2020

Figure 74: North American Market Shares of Fiber Optic Sensors, by Application, 2025

Figure 75: European Market Shares of Fiber Optic Sensors, by Component, 2020

Figure 76: European Market Shares of Fiber Optic Sensors, by Component, 2025

Figure 77: European Market Shares of Fiber Optic Sensors, by Technology, 2020

Figure 78: European Market Shares of Fiber Optic Sensors, by Technology, 2025

Figure 79: European Market Shares of Fiber Optic Sensors, by Application, 2020

Figure 80: European Market Shares of Fiber Optic Sensors, by Application, 2025

Figure 81: APAC Market Shares of Fiber Optic Sensors, by Component, 2020

Figure 82: APAC Market Shares of Fiber Optic Sensors, by Component, 2025

Figure 83: APAC Market Shares of Fiber Optic Sensors, by Technology, 2020

Figure 84: APAC Market Shares of Fiber Optic Sensors, by Technology, 2025

Figure 85: APAC Market Shares of Fiber Optic Sensors, by Application, 2020

Figure 86: APAC Market Shares of Fiber Optic Sensors, by Application, 2025

## I would like to order

Product name: Fiber Optic Sensors: Global Markets

Product link: <https://marketpublishers.com/r/F28E5E45B5EEN.html>

Price: US\$ 2,750.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/F28E5E45B5EEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970