

# Global Plastic Scintillation Fiber Optic Detector Market Growth 2026-2032

<https://marketpublishers.com/r/G071A3CEDCE6EN.html>

Date: May 2026

Pages: 104

Price: US\$ 3,660.00 (Single User License)

ID: G071A3CEDCE6EN

## Abstracts

The global Plastic Scintillation Fiber Optic Detector market size is predicted to grow from US\$ 32.37 million in 2025 to US\$ 49.97 million in 2032; it is expected to grow at a CAGR of 6.4% from 2026 to 2032.

Plastic scintillation fiber optic detectors are radiation detection devices centered around a plastic scintillator and optical fiber. When high-energy particles or rays pass through the material, they generate scintillation light, which is transmitted via optical fiber to optoelectronic devices to detect radiation intensity, location, or time. They feature fast response, flexibility, and low cost.

Upstream industries mainly include scintillation plastic raw materials, optical-grade polymers, wavelength-shifting dyes, optical fiber materials, and optoelectronic sensor chips. Downstream applications are concentrated in high-energy physics experiments, nuclear medicine imaging, industrial non-destructive testing, radiation monitoring, security inspection, and scientific research instruments.

In 2025, the global market price for plastic scintillation fiber optic detectors was \$2068 per unit, with annual sales of approximately 16,000 units and a global annual production capacity of 18,000 units. The industry profit margin was 25%.

United States market for Plastic Scintillation Fiber Optic Detector is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Plastic Scintillation Fiber Optic Detector is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Plastic Scintillation Fiber Optic Detector is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Plastic Scintillation Fiber Optic Detector players cover Saint-Gobain Crystals, Eljen Technology, Kuraray, Hamamatsu Photonics, CAEN, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Plastic Scintillation Fiber Optic Detector Industry Forecast" looks at past sales and reviews total world Plastic Scintillation Fiber Optic Detector sales in 2025, providing a comprehensive analysis by region and market sector of projected Plastic Scintillation Fiber Optic Detector sales for 2026 through 2032. With Plastic Scintillation Fiber Optic Detector sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Plastic Scintillation Fiber Optic Detector industry.

This Insight Report provides a comprehensive analysis of the global Plastic Scintillation Fiber Optic Detector landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Plastic Scintillation Fiber Optic Detector portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Plastic Scintillation Fiber Optic Detector market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Plastic Scintillation Fiber Optic Detector and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Plastic Scintillation Fiber Optic Detector.

This report presents a comprehensive overview, market shares, and growth opportunities of Plastic Scintillation Fiber Optic Detector market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Intrinsic Scintillation Fiber Type

Wavelength Shifted Fiber (WLS) Type

Composite Scintillation Fiber Type

#### Segmentation by Detector Structure:

Single Fiber Detector

Fiber Bundle Detector

Array/Ribbon Structure

Modular Splicing Structure

#### Segmentation by Photoelectric Readout Methods:

Photomultiplier Tube (PMT) Readout

Silicon Photomultiplier (SiPM) Readout

Avalanche Photodiode (APD) Readout

#### Segmentation by Application:

High Energy Physics Experiments

Nuclear Medicine Imaging

Industrial Non-Destructive Testing

Safety Inspection

Other

This report also splits the market by region:

### Americas

United States

Canada

Mexico

Brazil

### APAC

China

Japan

Korea

Southeast Asia

India

Australia

### Europe

Germany

France

UK

Italy

Russia

### Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Saint-Gobain Crystals

Eljen Technology

Kuraray

Hamamatsu Photonics

CAEN

Detec

Mirion Technologies

Scionix

NUCTECH

Key Questions Addressed in this Report

What is the 10-year outlook for the global Plastic Scintillation Fiber Optic Detector market?

What factors are driving Plastic Scintillation Fiber Optic Detector market growth, globally

and by region?

Which technologies are poised for the fastest growth by market and region?

How do Plastic Scintillation Fiber Optic Detector market opportunities vary by end market size?

How does Plastic Scintillation Fiber Optic Detector break out by Type, by Application?

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