

# Global Opposed Mode Barrel Sensors Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Opposed Mode Barrel Sensors market size was valued at US\$ 623 million in 2025 and is forecast to a readjusted size of US\$ 984 million by 2032 with a CAGR of 6.7% during review period.

In 2025, global Opposed Mode Barrel Sensor output reached about 40 million units and global capacity of around 56 million units. The average price is about USD 15 per unit, with gross margins near 33%. Opposed Mode Barrel Sensors are cylindrical (barrel-type) photoelectric sensors that operate in an opposed (through-beam) configuration, where the emitter and receiver are housed in separate barrel-shaped units aligned face-to-face; the system detects objects by sensing interruption of a light beam (typically infrared or visible) between the two units, offering high detection accuracy, long sensing distances, and strong immunity to ambient interference. The supply chain begins upstream with semiconductor components (LED emitters, photodiodes/phototransistors), optical elements (lenses, filters), and electronic ICs (signal processing chips), along with metal or polymer housings for the barrel structure; midstream involves sensor manufacturers integrating optics, electronics, and encapsulation into standardized cylindrical packages (e.g., M12, M18), including calibration and testing; downstream, these sensors are distributed through industrial automation suppliers and integrators to end users in manufacturing lines, packaging systems, conveyor detection, robotics, and safety systems, where reliable object detection and positioning are critical.

This report is a detailed and comprehensive analysis for global Opposed Mode Barrel 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 2025, are provided.

**Key Features:**

Global Opposed Mode Barrel Sensors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Opposed Mode Barrel Sensors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Opposed Mode Barrel Sensors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Opposed Mode Barrel Sensors market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

**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 Opposed Mode Barrel 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 Opposed Mode Barrel Sensors market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SICK, Keyence, OMRON, Pepperl+Fuchs, Banner, Balluff, ifm electronic, Leuze electronic, Baumer Group, Contrinex, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## **Market Segmentation**

Opposed Mode Barrel Sensors market is split by Type and by Application. For the period 2021-2032, 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

M8 Barrel Sensors

M12 Barrel Sensors

M18 Barrel Sensors

M30 Barrel Sensors

### Market segment by Detection Range

Short Range (10 m)

### Market segment by Application

Automotive

Industrial

Logistics

Packaging

Others

## Major players covered

SICK

Keyence

OMRON

Pepperl+Fuchs

Banner

Balluff

ifm electronic

Leuze electronic

Baumer Group

Contrinex

Panasonic

Mitsubishi Electric

Autonics

Hokuyo Automatic

Wenglor Sensoric

## 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 Opposed Mode Barrel Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Opposed Mode Barrel Sensors, with price, sales quantity, revenue, and global market share of Opposed Mode Barrel Sensors from 2021 to 2026.

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

Chapter 4, the Opposed Mode Barrel Sensors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and Opposed Mode Barrel Sensors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Opposed Mode Barrel Sensors.

Chapter 14 and 15, to describe Opposed Mode Barrel Sensors sales channel, distributors, customers, research findings and conclusion.

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