

Global Optical Encoder 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 Optical Encoder market size was valued at US\$ 1997 million in 2025 and is forecast to a readjusted size of US\$ 2748 million by 2032 with a CAGR of 4.6% during review period.

Optical encoders are position and motion feedback sensors that turn mechanical movement into electrical signals by using light. In a typical optical encoder, a light source (often an LED) shines through or reflects off a patterned scale (a code disk for rotary motion, or a scale strip for linear motion). A photodetector reads how the light changes as the pattern moves, and electronics convert this into signals that a controller can use to know position, speed, and direction. This is why optical encoders are a core part of many motion systems: without feedback, motors and axes cannot reliably hit the right location, keep stable speed, or correct errors in real time. Renishaw describes optical encoders as a scale + readhead system where a light source and photodetector move past scale lines to generate an electrical signal for a motion control system.

From a market-definition view, the optical encoder market covers both rotary encoders (measuring angle/rotation of shafts) and linear encoders (measuring straight-line position of machine axes). It also covers different grades and form factors: compact encoders for general automation, high-accuracy encoders for CNC machine tools and precision stages, and robust encoders designed for harsh factory environments. The market usually includes the encoder hardware (scale/disk and readhead/sensor), signal-processing electronics, and the output interface (for example incremental pulses, absolute position data, or industrial network communications). In many real purchasing decisions, customers buy not only an encoder, but a feedback solution matched to their control system, accuracy target, environmental conditions, and maintenance strategy.

A key way the market is segmented is incremental vs. absolute. Incremental encoders output pulses as motion occurs; the controller counts pulses to infer movement and direction. They are widely used for speed control, relative positioning, and cost-sensitive systems. Absolute encoders output a unique position value (or can report it on demand), so the system can know the position immediately even after power loss, which matters for safety, multi-axis coordination, and high-value equipment. Manufacturers commonly explain this split and also the further split of single-turn vs multi-turn absolute encoders: single-turn reports position within one revolution, while multi-turn also tracks the number of revolutions so it can report position across multiple turns.

Another important segmentation is rotary vs. linear encoders because their value drivers differ. In machine tools and precision manufacturing, linear encoders are used to measure axis position directly and reduce errors created by screws, backlash, and thermal effects. HEIDENHAIN explains that linear encoders measure position "without intervening mechanical elements," eliminating error sources like backlash, pitch error, and heating of the ball screw, and are essential where high accuracy and high machining speed are needed. In contrast, rotary encoders are often used on motor shafts, joints, spindles, conveyors, elevators, robots, and many rotating mechanisms; their "value" may be high resolution, compactness, reliability, and how well they handle vibration, dust, and temperature change.

In 2025, global Optical Encoder production reached approximately 29870 K Units, with an average global market price of around US\$ 65.0 per unit. The global single-line production capacity ranges from 500 to 700 K Units per year. The industry's gross profit margin is approximately 30%-40%.

One major trend in the optical encoder market is the continued push toward higher accuracy and better control of error sources in precision manufacturing. This is especially visible in CNC machining, precision grinding, and high-end motion stages. The reason is straightforward: as customers demand tighter tolerances and higher throughput, manufacturers try to reduce scrap, reduce rework, and shorten cycle time. Linear encoders support this by measuring actual axis position and helping controls compensate for mechanical and thermal effects. HEIDENHAIN's materials emphasize this "error elimination" value proposition for linear encoders in machine tools. The trend is not only "more encoders," but also a shift toward using encoders in more axes and using better encoder systems in higher-value machines.

A second major trend is the move from simple signal output to smart, networked encoders that support modern industrial communication and diagnostics. In older architectures, encoders often output basic quadrature pulses (A/B/Z) or a simple serial position signal. In newer architectures, encoders increasingly support real-time Ethernet and Industry 4.0 style connectivity, so systems can do easier commissioning, parameter management, diagnostics, and predictive maintenance.

A third trend is demand growth in robotics and motion platforms beyond traditional factory robots. Warehouses and logistics are expanding the use of AGVs/AMRs and automated material handling; service robots (in cleaning and transport) are also growing. IFR press releases note rising sales of professional service robots and describe labor shortages and productivity needs as drivers in some segments. These systems often require reliable position feedback for wheels, lifts, steering modules, and actuator joints, and they run in mixed environments where robustness and stable feedback matter. In many cases, optical encoders compete with magnetic sensing, but optical systems remain attractive where high resolution and stable measurement are important for smooth control.

Another demand driver is the growth of electronics and semiconductor-related manufacturing equipment, which relies on precise motion (linear stages, wafer handling, inspection equipment). Even when this equipment uses specialized metrology, encoders still play a key role in positioning loops and motion repeatability. The market driver here is that electronics manufacturing continues to push for smaller feature sizes, higher throughput, and more automation, which increases the value of precision feedback components. In addition, medical devices, lab automation, and high-end printing/inspection equipment often require accurate, repeatable movement and benefit from optical encoder feedback.

This report is a detailed and comprehensive analysis for global Optical Encoder 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 Optical Encoder market size and forecasts, in consumption value (\$ Million),

sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Optical Encoder 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 Optical Encoder 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 Optical Encoder 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 Optical Encoder

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 Optical Encoder 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 Broadcom, BEI Sensors, Renishaw, Dynapar, Baumer Group, TAMAGAWA SEIKI, CTS, Allied Motion, EPC, US Digital, etc.

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

Market Segmentation

Optical Encoder 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

Incremental Encoders

Absolute Encoders

Market segment by Measurement Type

Rotary Optical Encoders

Linear Optical Encoders

Market segment by Mechanical Construction

Shaft Encoders

Hollow-Shaft Encoders

Ring Encoders

Others

Market segment by Optical Principle

Transmissive

Reflective

Interferential

Market segment by Application

Healthcare

Machine tool

Consumer Electronics

Assembly equipment

Other

Major players covered

Broadcom

BEI Sensors

Renishaw

Dynapar

Baumer Group

TAMAGAWA SEIKI

CTS

Allied Motion

EPC

US Digital

CUI

OMRON Corporation

HEIDENHAIN

Bourns

Grayhill

Gurley Precision Instruments

HONEYWELL INTERNATIONAL INC

Graduate Honest Sensor Corp

HONTKO

Yuheng Optics

Inovance Technology

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 Optical Encoder product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Optical Encoder, with price, sales quantity, revenue, and global market share of Optical Encoder from 2021 to 2026.

Chapter 3, the Optical Encoder competitive situation, sales quantity, revenue, and

global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Optical Encoder 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 Optical Encoder 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 Optical Encoder.

Chapter 14 and 15, to describe Optical Encoder sales channel, distributors, customers, research findings and conclusion.

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