

Global Optical Encoders Market Growth 2026-2032

<https://marketpublishers.com/r/G931385A725EN.html>

Date: July 2026

Pages: 153

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

ID: G931385A725EN

Abstracts

The global Optical Encoders market size is predicted to grow from US\$ 1898 million in 2025 to US\$ 2656 million in 2032; it is expected to grow at a CAGR of 4.9% from 2026 to 2032.

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 Encoders 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.

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

This Insight Report provides a comprehensive analysis of the global Optical Encoders 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 Optical Encoders portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an

accelerating global Optical Encoders market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Optical Encoders 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 Optical Encoders.

This report presents a comprehensive overview, market shares, and growth opportunities of Optical Encoders market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Incremental Encoders

Absolute Encoders

Segmentation by Measurement Type:

Rotary Optical Encoders

Linear Optical Encoders

Segmentation by Mechanical Construction:

Shaft Encoders

Hollow-Shaft Encoders

Ring Encoders

Others

Segmentation by Optical Principle:

Transmissive

Reflective

Interferential

Segmentation by Application:

Healthcare

Machine Tool

Consumer Electronics

Assembly Equipment

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.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global Optical Encoders market?

What factors are driving Optical Encoders market growth, globally and by region?

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

How do Optical Encoders market opportunities vary by end market size?

How does Optical Encoders break out by Type, by Application?

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