

Global Automotive Inductive Encoder Market Growth 2026-2032

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Abstracts

The global Automotive Inductive Encoder market size is predicted to grow from US\$ 99 million in 2025 to US\$ 134 million in 2032; it is expected to grow at a CAGR of 3.4% from 2026 to 2032.

In 2025, the global production volume of automotive inductive encoders is projected to reach 1.1918 million units, with an average selling price of \$85 per unit. The global annual production capacity for automotive inductive encoders stands at approximately 1.5 million units, accompanied by a gross margin of approximately 26.2%. An automotive inductive encoder is a position-sensing device designed for automotive applications; utilizing the electromagnetic induction effect between sensor coils and an encoding element (typically a periodic pattern or electromagnetic structure on a rotor or stator), it converts rotational or linear displacement into position-dependent electrical signals. Once processed by a decoding circuit, these signals yield angular or displacement data, enabling functions such as steering angle measurement, pedal and valve position feedback, transmission shift position detection, and wheel speed sensing (serving as an alternative to Hall-effect sensors). Compared to purely optical solutions or systems reliant on strong magnetic fields, inductive encoders are generally better suited to operate stably within the demanding automotive environment?characterized by high temperatures, intense vibration, and significant electromagnetic interference. The upstream segment of the automotive inductive encoder industry chain encompasses electronic and magnetic materials, enameled wire, and components such as ADCs and MCUs; the midstream segment consists of the manufacturers of automotive inductive encoders themselves; while the downstream segment primarily comprises the commercial and passenger vehicle sectors.

United States market for Automotive Inductive Encoder 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 Automotive Inductive Encoder 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 Automotive Inductive Encoder is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Automotive Inductive Encoder players cover POSIC, Turck, Onsemi, Semiment Technology, AMO Automatisierung Messtechnik Optik, 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 "Automotive Inductive Encoder Industry Forecast" looks at past sales and reviews total world Automotive Inductive Encoder sales in 2025, providing a comprehensive analysis by region and market sector of projected Automotive Inductive Encoder sales for 2026 through 2032. With Automotive Inductive Encoder sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Automotive Inductive Encoder industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Inductive Encoder 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 Automotive Inductive Encoder.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive Inductive Encoder market by product type, application, key

manufacturers and key regions and countries.

Segmentation by Type:

Rotary Inductive Encoder

Linear Inductive Encoder

Segmentation by Output Signal:

Incremental

Absolute

Segmentation by Resolution:

12-Bit

18-Bit

21-Bit

Segmentation by Application:

Commercial Vehicles

Passenger Vehicles

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.

POSIC

Turck

Onsemi

Semiment Technology

AMO Automatisierung Messtechnik Optik

Texas Instruments

SENSNA

Gongwang Electronics

Mosrac

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Inductive Encoder market?

What factors are driving Automotive Inductive Encoder market growth, globally and by region?

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

How do Automotive Inductive Encoder market opportunities vary by end market size?

How does Automotive Inductive Encoder break out by Type, by Application?

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