

Global Automotive Inductive Encoder Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive Inductive Encoder market size is expected to reach \$ 139 million by 2032, rising at a market growth of 3.2% CAGR during the forecast period (2026-2032).

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.

This report studies the global Automotive Inductive Encoder production, demand, key

manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Inductive Encoder and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Automotive Inductive Encoder that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive Inductive Encoder total production and demand, 2021-2032, (K Units)

Global Automotive Inductive Encoder total production value, 2021-2032, (USD Million)

Global Automotive Inductive Encoder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Automotive Inductive Encoder consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Automotive Inductive Encoder domestic production, consumption, key domestic manufacturers and share

Global Automotive Inductive Encoder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Automotive Inductive Encoder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automotive Inductive Encoder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automotive Inductive Encoder market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include POSIC, Turck, Onsemi, Semiment Technology, AMO Automatisierung Messtechnik Optik, Texas Instruments, SENSNA, Gongwang Electronics, Mosrac, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Automotive Inductive Encoder market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Automotive Inductive Encoder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Inductive Encoder Market, Segmentation by Type:

Rotary Inductive Encoder

Linear Inductive Encoder

Global Automotive Inductive Encoder Market, Segmentation by Output Signal:

Incremental

Absolute

Global Automotive Inductive Encoder Market, Segmentation by Resolution:

12-Bit

18-Bit

21-Bit

Global Automotive Inductive Encoder Market, Segmentation by Application:

Commercial Vehicles

Passenger Vehicles

Companies Profiled:

POSIC

Turck

Onsemi

Semiment Technology

AMO Automatisierung Messtechnik Optik

Texas Instruments

SENSNA

Gongwang Electronics

Mosrac

Key Questions Answered:

1. How big is the global Automotive Inductive Encoder market?

2. What is the demand of the global Automotive Inductive Encoder market?
3. What is the year over year growth of the global Automotive Inductive Encoder market?
4. What is the production and production value of the global Automotive Inductive Encoder market?
5. Who are the key producers in the global Automotive Inductive Encoder market?
6. What are the growth factors driving the market demand?

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