

Global Automotive Inductive Encoder Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G05DB19E04E1EN.html>

Date: June 2026

Pages: 100

Price: US\$ 3,480.00 (Single User License)

ID: G05DB19E04E1EN

Abstracts

According to our (Global Info Research) latest study, the global Automotive Inductive Encoder market size was valued at US\$ 104 million in 2025 and is forecast to a readjusted size of US\$ 139 million by 2032 with a CAGR of 3.2% during review period.

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 is a detailed and comprehensive analysis for global Automotive Inductive 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 Automotive Inductive Encoder market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive Inductive 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 Automotive Inductive 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 Automotive Inductive 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 Automotive Inductive 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 Automotive Inductive 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 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.

Market Segmentation

Automotive Inductive 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

Rotary Inductive Encoder

Linear Inductive Encoder

Market segment by Output Signal

Incremental

Absolute

Market segment by Resolution

12-Bit

18-Bit

21-Bit

Market segment by Application

Commercial Vehicles

Passenger Vehicles

Major players covered

POSIC

Turck

Onsemi

Semiment Technology

AMO Automatisierung Messtechnik Optik

Texas Instruments

SENSNA

Gongwang Electronics

Mosrac

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

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

Chapter 3, the Automotive Inductive Encoder competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive Inductive 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 Automotive Inductive 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 Automotive Inductive Encoder.

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

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