+357 96 030922
info@marketpublishers.com

Global Electromagnetic Speed Sensor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/G0EF3D52383CEN.html
Date: April 2026
Pages: 112
Price: US$ 3,480.00 (Single User License)
ID: G0EF3D52383CEN

Abstracts

According to our (Global Info Research) latest study, the global Electromagnetic Speed Sensor market size was valued at US$ 376 million in 2025 and is forecast to a readjusted size of US$ 652 million by 2032 with a CAGR of 8.1% during review period.

Electromagnetic speed sensors are sensors that detect the speed of rotating parts using the principle of electromagnetic induction. They typically consist of a permanent magnet, an iron core, and an induction coil. When a rotating part carrying a gear or metal target passes the sensor's end face, it changes the magnetic reluctance of the magnetic field, generating an AC voltage signal in the coil. The rotational speed of the shaft or gear can be calculated from the signal frequency. These sensors require no external power supply, have a simple structure, and are highly resistant to high temperatures and vibrations. Therefore, they are widely used in applications such as automotive engine speed detection, transmission speed detection, industrial motor speed monitoring, railway vehicle speed monitoring, and speed detection in aviation and energy equipment. In 2025, global sales of electromagnetic speed sensors were approximately 42.5 million units, with an average unit price of approximately US$8.6, an industry capacity utilization rate of approximately 81%, and an overall gross profit margin of approximately 34%. Upstream companies mainly come from the fields of magnetic materials, copper wire coils, semiconductor components, metal structural parts, connectors, and sensor chips; midstream companies include automotive sensor manufacturers, industrial sensor manufacturers, and automotive parts companies; downstream application industries mainly include automotive power systems, construction machinery, power equipment, industrial automation, rail transportation, aerospace, and agricultural machinery. The product cost structure typically consists of magnets and metal structural components accounting for approximately 26%, copper

+357 96 030922
info@marketpublishers.com

wire coils and electronic components accounting for approximately 24%, packaging and housing processing accounting for approximately 17%, connectors and wire harnesses accounting for approximately 12%, production assembly and testing accounting for approximately 11%, R&D and quality control accounting for approximately 6%, and other management and logistics costs accounting for approximately 4%. In terms of demand analysis, the downstream demand list mainly includes engine crankshaft speed detection needs, gearbox and transmission system speed detection needs, motor and pump equipment speed monitoring needs, industrial automation equipment feedback control needs, rail transit wheel and axle speed detection needs, and energy equipment and generator set monitoring needs. The downstream customer list mainly includes vehicle manufacturers, auto parts manufacturers, industrial equipment manufacturers, motor manufacturers, rail transit equipment manufacturers, power equipment manufacturers, construction machinery companies, and automation system integrators. In terms of business opportunities, policy-driven factors mainly stem from policies promoting the development of the new energy vehicle industry, the construction of the industrial internet, and the upgrading of intelligent manufacturing, which drive a large demand for equipment sensors. Technological innovation is primarily reflected in the development of high-temperature magnetic materials, signal conditioning circuits, and digital sensing technologies, which continuously improve the stability and accuracy of sensors in extreme environments and high-speed scenarios. Regarding changes in consumer demands, automotive and industrial users are increasingly demanding higher requirements for equipment safety, real-time monitoring capabilities, and equipment maintenance efficiency, thereby promoting the continued penetration of electromagnetic speed sensors in automotive power systems, industrial equipment, and new energy equipment.

Electromagnetic speed sensors are an important component of traditional magnetoelectric sensors, with a long-standing and stable demand in the automotive and industrial equipment sectors. Their core advantages lie in their simple structure, high reliability, and lack of external power supply, allowing them to operate stably even in high-temperature, high-vibration, and harsh environments. Current market demand is primarily driven by the automotive industry and industrial automation, with the automotive sector remaining the largest application area. Applications include critical components such as engine crankshaft position detection, transmission speed detection, and anti-lock braking systems. With the development of new energy vehicles and hybrid vehicles, applications such as motor speed monitoring, drive system control, and powertrain monitoring are further expanding the demand. Simultaneously, industrial automation equipment, motor drive systems, wind turbines, and rail transit equipment are accelerating the construction of equipment digitization and condition monitoring

+357 96 030922
info@marketpublishers.com

systems, which is continuously enhancing the role of speed sensors in industrial equipment operation monitoring and predictive maintenance. From a technological perspective, electromagnetic speed sensors are gradually developing towards higher precision, miniaturization, high-temperature resistance, and stronger electromagnetic interference resistance. By integrating with digital signal processing circuits and industrial communication systems, they are achieving even more reliable real-time monitoring capabilities. In the future, with the continued development of intelligent manufacturing, industrial internet and new energy vehicle industry, the demand for speed detection will maintain steady growth, and electromagnetic speed sensors with high reliability, long life and industrial-grade stability will form a continuous and stable market space in the fields of automotive power systems, industrial automation equipment and energy equipment.

This report is a detailed and comprehensive analysis for global Electromagnetic Speed Sensor 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 Electromagnetic Speed Sensor market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Electromagnetic Speed Sensor 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 Electromagnetic Speed Sensor 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 Electromagnetic Speed Sensor 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:

+357 96 030922
info@marketpublishers.com

To determine the size of the total market opportunity of global and key countries
To assess the growth potential for Electromagnetic Speed Sensor
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 Electromagnetic Speed Sensor 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 TE, Lenord+Bauer, Br?el & Kj?r, ONO Sokki, ETO Gruppe, Heinzmann, NKE, Nijin Environmental Technology, Nanjing KJT, Guangdong Topro, etc.

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

Market Segmentation

Electromagnetic Speed Sensor 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

Maximum Operating Temperature: Below 100°C

Maximum Operating Temperature: 100–150°C

Maximum Operating Temperature: 150–200°C

Maximum Operating Temperature: Above 200°C

Market segment by Impedance (mH)

Below 100 mH

100–200 mH

+357 96 030922
info@marketpublishers.com

200–300 mH

Above 300 mH

Market segment by Module

Small Module Type

Medium Module Type

Large Module Type

Market segment by Application

Automotives

Marine

Rail Transit

Industrial Automation

Wind and Hydropower

Aerospace

Others

Major players covered

TE

Lenord+Bauer

Br?el & Kj?r

+357 96 030922
info@marketpublishers.com

ONO Sokki

ETO Gruppe

Heinzmann

NKE

Nijin Environmental Technology

Nanjing KJT

Guangdong Topro

CHENGDU DONGNENG AUTOMATIC CONTROL TECHNOLOGY

Hubei Hangrong

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 Electromagnetic Speed Sensor product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the Electromagnetic Speed Sensor competitive situation, sales quantity,

+357 96 030922
info@marketpublishers.com

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

Chapter 4, the Electromagnetic Speed Sensor 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 Electromagnetic Speed Sensor 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 Electromagnetic Speed Sensor.

Chapter 14 and 15, to describe Electromagnetic Speed Sensor sales channel, distributors, customers, research findings and conclusion.

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

2 MANUFACTURERS PROFILES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

3 COMPETITIVE ENVIRONMENT: ELECTROMAGNETIC SPEED SENSOR BY MANUFACTURER

4 CONSUMPTION ANALYSIS BY REGION

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Electromagnetic Speed Sensor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

Product link: https://marketpublishers.com/r/G0EF3D52383CEN.html

Price: US$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G0EF3D52383CEN.html