

Global Magnetic Angular Position Sensors Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/MDE631EBA584EN.html>

Date: July 2025

Pages: 127

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

ID: MDE631EBA584EN

Abstracts

According to our (Global Info Research) latest study, the global Magnetic Angular Position Sensors market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

Magnetic Angular Position Sensors detect angular positions of rotating elements with absolute precision by means of a magnetic measurement principle.

Magnetic Angular Position Sensors market driver as below:

Precise Control and Measurement: Magnetic Angular Position Sensors enable accurate measurement and control of angular positions. This precision is essential in applications where exact positioning is critical for proper operation, efficiency, and safety.

Automotive Innovation: The automotive industry relies on Magnetic Angular Position Sensors for applications such as electronic power steering, throttle control, transmission position sensing, and more. As vehicles incorporate more electronic control systems, the demand for accurate position sensing continues to grow.

Electric and Hybrid Vehicles: The rise of electric and hybrid vehicles requires precise control of various components, such as electric motor positioning, pedal sensing, and steering angle measurement. Magnetic Angular Position Sensors contribute to efficient and reliable operation in these vehicles.

Industrial Automation: In industrial settings, Magnetic Angular Position Sensors are crucial for controlling robotic arms, conveyor systems, and other machinery. Accurate

position feedback ensures smooth operation, high productivity, and safe automation processes.

Renewable Energy: Wind turbines and solar tracking systems use Magnetic Angular Position Sensors to optimize energy capture by adjusting their positions according to environmental conditions. These sensors contribute to higher energy efficiency in renewable energy systems.

Aerospace and Defense: Aerospace applications require precise control for various components such as control surfaces, radar systems, and satellite positioning. Magnetic Angular Position Sensors provide the necessary feedback for navigation and operational safety.

Medical Devices: In medical equipment like robotic surgical systems, Magnetic Angular Position Sensors play a vital role in ensuring precise movement and accurate positioning during procedures. They contribute to patient safety and surgical precision.

Consumer Electronics: Devices like gaming controllers, virtual reality (VR) headsets, and digital cameras use Magnetic Angular Position Sensors to track user movements and provide interactive experiences. These sensors enhance user engagement and device functionality.

IoT and Smart Devices: As the Internet of Things (IoT) expands, smart devices require accurate position sensing for features like automatic blinds, smart locks, and more. Magnetic Angular Position Sensors enable intelligent automation in smart homes and buildings.

Harsh Environments: Magnetic Angular Position Sensors are often designed to withstand challenging environmental conditions, such as extreme temperatures and vibrations. This durability makes them suitable for applications in industries like mining, construction, and agriculture.

Redundancy and Safety: Safety-critical systems often rely on redundant sensors for fail-safe operation. Magnetic Angular Position Sensors can be integrated into such systems to ensure reliable performance and redundancy.

Miniaturization and Integration: Advancements in sensor technology have led to smaller and more integrated Magnetic Angular Position Sensors. This makes them suitable for compact devices while maintaining accurate performance.

The demand for Magnetic Angular Position Sensors continues to grow due to their ability to provide accurate, non-contact, and reliable position information across a wide spectrum of applications. The evolving technological landscape, industry-specific requirements, and the need for precise control and measurement further contribute to the expansion of this market.

This report is a detailed and comprehensive analysis for global Magnetic Angular Position Sensors 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 Magnetic Angular Position Sensors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Magnetic Angular Position Sensors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Magnetic Angular Position Sensors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Magnetic Angular Position Sensors market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

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 Magnetic Angular Position Sensors
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Magnetic Angular Position Sensors 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 Infineon, Texas Instruments, ams, Honeywell, Analog Devices, Inc, NXP, Allegro MicroSystems, Automation Sensorik Messtechnik, Amphenol, HELLA (FORVIA), etc.

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

Market Segmentation

Magnetic Angular Position Sensors market is split by Type and by Application. For the period 2020-2031, 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

Sensing Range: 0-180°

Sensing Range: 0-360°

Market segment by Application

Automotive

Industrial

Medical

Others

Major players covered

Infineon

Texas Instruments

ams

Honeywell

Analog Devices, Inc

NXP

Allegro MicroSystems

Automation Sensorik Messtechnik

Amphenol

HELLA (FORVIA)

TE Connectivity

Monolithic Power Systems

Celduc

Asahi Kasei Microdevices

Bourns

Xi'an Zhongke Alpha Electronic Technology

Shenzhen Milang Technology

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 Magnetic Angular Position Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Magnetic Angular Position Sensors, with price, sales quantity, revenue, and global market share of Magnetic Angular Position Sensors from 2020 to 2025.

Chapter 3, the Magnetic Angular Position Sensors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Magnetic Angular Position Sensors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Magnetic Angular Position Sensors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Magnetic Angular Position Sensors.

Chapter 14 and 15, to describe Magnetic Angular Position Sensors sales channel, distributors, customers, research findings and conclusion.

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