

Global Non-contact Rotary Angle Sensors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Non-contact Rotary Angle Sensors market size is expected to reach \$ 187 million by 2032, rising at a market growth of 8.0% CAGR during the forecast period (2026-2032).

In 2025, global Non-contact Rotary Angle Sensors production reached approximately 1,624 k units, with an average global market price of around US\$ 57 per unit. Gross margin is about 44%. The cost is 32 usd per unit, the production is 3,000 k units. Non-contact Rotary Angle Sensors refer to sensors that measure the angular position, rotational displacement, rotational direction, or speed of a rotating object without physical contact between the sensing element and the rotating part. These sensors typically use Hall-effect, magnetoresistive, inductive, optical, or capacitive technologies to achieve high reliability, long service life, and low wear. Non-contact rotary angle sensors are widely used in automotive systems, industrial automation, robotics, electric motors, aerospace equipment, and consumer electronics because they provide accurate position feedback while reducing mechanical friction and maintenance requirements.

Non-contact rotary angle sensors will be increasingly used in electric vehicles, industrial robots, collaborative robots, drones, and automation equipment. As demand for motor control, robotic joints, and intelligent devices continues to grow, market demand will continue to increase.

Hall-effect, magnetoresistive, inductive, and optical technologies will continue to improve. Future products are expected to provide higher accuracy, higher resolution, faster response, and stronger resistance to interference.

High precision, multi-turn detection, and 360-degree continuous rotation sensing will become important development trends. Future products will place greater emphasis on repeatability, long-term stability, and reliability under high-speed rotation conditions.

Miniaturization, low power consumption, and high integration will become key trends. Future non-contact rotary angle sensors will increasingly integrate with MCUs, driver ICs, communication modules, and control systems to meet the needs of compact and portable devices.

Digitalization and intelligent functions will continue to improve. More products will support SPI, I2C, CAN, PWM, LIN, and other digital interfaces, along with self-diagnostics, fault detection, parameter storage, and remote monitoring capabilities.

Automotive and industrial markets will become the main growth drivers. With the development of steer-by-wire systems, electric drive systems, industrial automation, and robotics, demand for highly reliable and safety-critical non-contact rotary angle sensors will increase rapidly.

This report studies the global Non-contact Rotary Angle Sensors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Non-contact Rotary Angle Sensors 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 Non-contact Rotary Angle Sensors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Non-contact Rotary Angle Sensors total production and demand, 2021-2032, (K Units)

Global Non-contact Rotary Angle Sensors total production value, 2021-2032, (USD Million)

Global Non-contact Rotary Angle Sensors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Non-contact Rotary Angle Sensors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Non-contact Rotary Angle Sensors domestic production, consumption, key domestic manufacturers and share

Global Non-contact Rotary Angle Sensors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Non-contact Rotary Angle Sensors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Non-contact Rotary Angle Sensors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Non-contact Rotary Angle Sensors 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 Honeywell, TE Connectivity, Sensata Technologies, Bosch, Contelec, HELLA, Melexis, ams OSRAM, Allegro MicroSystems, TDK, 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 Non-contact Rotary Angle Sensors 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 Non-contact Rotary Angle Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Non-contact Rotary Angle Sensors Market, Segmentation by Type:

Single Outputs

Dual Outputs

Global Non-contact Rotary Angle Sensors Market, Segmentation by Precision:

High-Precision Type

Medium-Precision Type

Standard-Precision Type

Global Non-contact Rotary Angle Sensors Market, Segmentation by Mounting:

Shaft Mounting

Hollow Shaft Mounting

Others

Global Non-contact Rotary Angle Sensors Market, Segmentation by Application:

Automotive

Aerospace

Military & Defense

Medical

Food & Beverage

Industrial Automation System

Others

Companies Profiled:

Honeywell

TE Connectivity

Sensata Technologies

Bosch

Contelec

HELLA

Melexis

ams OSRAM

Allegro MicroSystems

TDK

Murata Manufacturing

Asahi Kasei Microdevices

Nidec

MinebeaMitsumi

MultiDimension Technology

Suzhou Meiyi Microelectronics Co., Ltd.

Key Questions Answered:

1. How big is the global Non-contact Rotary Angle Sensors market?
2. What is the demand of the global Non-contact Rotary Angle Sensors market?
3. What is the year over year growth of the global Non-contact Rotary Angle Sensors market?
4. What is the production and production value of the global Non-contact Rotary Angle Sensors market?
5. Who are the key producers in the global Non-contact Rotary Angle Sensors market?
6. What are the growth factors driving the market demand?

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