

Global Non-Contact Capacitive Encoders Market Growth 2026-2032

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Abstracts

The global Non-Contact Capacitive Encoders market size is predicted to grow from US\$ 1223 million in 2025 to US\$ 2293 million in 2032; it is expected to grow at a CAGR of 9.4% from 2026 to 2032.

In 2025, global sales of non-contact capacitive encoders across various applications reached approximately 23.6 million units. Based on system design and purchase orders, the unit price was approximately USD 53, with a gross profit margin of approximately 28%–38%. Typical product structures include: a rotor disk or linear scale with periodic electrode patterns (multilayer PCB, glass, or metal substrate), stator-side excitation and receiving electrode arrays, a dedicated capacitance measurement ASIC, signal conditioning and interpolation circuits, interface conversion modules (ABZ, SSI, BiSS-C, SPI, RS-485, TTL/RS-422 differential output), housing, and bearings/mounting flanges. General parameters typically include: resolution 12–22 bit (up to 23–24 bit absolute value for high-end models), system accuracy ± 10 – ± 60 arcseconds (up to several arcseconds for high-end aerospace/robotics models), operating speed 3,000–10,000 rpm (up to several m/s for linear models), supply voltage 4.5–5.5 V or 9–30 V, operating temperature -40 to $+105$ °C, and vibration resistance meeting industrial or military standards. Typical usage: A six-axis industrial robot typically uses 6–7 capacitive encoders (including joints and additional axes); a semiconductor conveyor/exposure platform uses 3–6 linear/rotary capacitive encoders; a mid-to-high-end servo motor test bench or turntable uses 1–2; and a medical imaging device (such as a CT/Gantry) uses 1–3. Upstream in the industry chain, capacitive encoders mainly rely on high-stability PCBs/glass substrates, copper/aluminum electrode materials, high-stability dielectric materials, dedicated capacitance measurement ASICs and mixed-signal chips, connectors, and cable assemblies. Downstream, they are concentrated in robot and collaborative robot manufacturers, machine tool and motion control system

manufacturers, semiconductor and electronic manufacturing equipment manufacturers, AGV/AMR manufacturers, and medical imaging and aerospace equipment companies.

United States market for Non-Contact Capacitive Encoders is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Non-Contact Capacitive Encoders is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Non-Contact Capacitive Encoders is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Non-Contact Capacitive Encoders players cover Kappasense, Same Sky, Netzer, TR Electronic, Heidenhain, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Non-Contact Capacitive Encoders Industry Forecast" looks at past sales and reviews total world Non-Contact Capacitive Encoders sales in 2025, providing a comprehensive analysis by region and market sector of projected Non-Contact Capacitive Encoders sales for 2026 through 2032. With Non-Contact Capacitive Encoders sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Non-Contact Capacitive Encoders industry.

This Insight Report provides a comprehensive analysis of the global Non-Contact Capacitive Encoders landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Non-Contact Capacitive Encoders portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Non-Contact Capacitive Encoders market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Non-Contact Capacitive Encoders and breaks down the forecast by Maximum Speed, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of

bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Non-Contact Capacitive Encoders.

This report presents a comprehensive overview, market shares, and growth opportunities of Non-Contact Capacitive Encoders market by product type, application, key manufacturers and key regions and countries.

Segmentation by Maximum Speed:

7500 RPM

8000 RPM

10000 RPM

Others

Segmentation by Input Voltage:

3.6V

4.5V

Others

Segmentation by Orientation:

Axial

Radial

Segmentation by Application:

Industrial Automation

Aerospace

Medical

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Kappasense

Same Sky

Netzer

TR Electronic

Heidenhain

PoLabs

Posital-Fraba

Hengstler

Bourns

SICK

Georg Schlegel

Micro-Epsilon

Key Questions Addressed in this Report

What is the 10-year outlook for the global Non-Contact Capacitive Encoders market?

What factors are driving Non-Contact Capacitive Encoders market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Non-Contact Capacitive Encoders market opportunities vary by end market size?

How does Non-Contact Capacitive Encoders break out by Maximum Speed, by Application?

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