

# Global Non-Contact Capacitive Modulation Encoders Market Growth 2026-2032

<https://marketpublishers.com/r/GFF561512002EN.html>

Date: January 2026

Pages: 113

Price: US\$ 3,660.00 (Single User License)

ID: GFF561512002EN

## Abstracts

The global Non-Contact Capacitive Modulation Encoders market size is predicted to grow from US\$ 1220 million in 2025 to US\$ 2286 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 modulation encoders across various applications reached approximately 23.8 million units. Based on system design and purchase orders, the unit price was approximately USD 52.4, 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  $\pm 10$ – $\pm 60$  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 modulation encoders (including joints and additional axes); a semiconductor conveyor/exposure platform uses 3–6 linear/rotary capacitive modulation 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 Modulation 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 Modulation 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 Modulation 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 Modulation 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 Modulation Encoders Industry Forecast” looks at past sales and reviews total world Non-Contact Capacitive Modulation Encoders sales in 2025, providing a comprehensive analysis by region and market sector of projected Non-Contact Capacitive Modulation Encoders sales for 2026 through 2032. With Non-Contact Capacitive Modulation 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 Modulation Encoders industry.

This Insight Report provides a comprehensive analysis of the global Non-Contact Capacitive Modulation 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 Modulation 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 Modulation Encoders market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for Non-Contact Capacitive Modulation 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 Modulation Encoders.

This report presents a comprehensive overview, market shares, and growth opportunities of Non-Contact Capacitive Modulation 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 Modulation Encoders market?

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

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

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

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

## Contents

### 1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

### 2 EXECUTIVE SUMMARY

#### 2.1 World Market Overview

- 2.1.1 Global Non-Contact Capacitive Modulation Encoders Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Non-Contact Capacitive Modulation Encoders by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Non-Contact Capacitive Modulation Encoders by Country/Region, 2021, 2025 & 2032

#### 2.2 Non-Contact Capacitive Modulation Encoders Segment by Maximum Speed

- 2.2.1 7500 RPM
- 2.2.2 8000 RPM
- 2.2.3 10000 RPM
- 2.2.4 Others
- 2.2.5 Non-Contact Capacitive Modulation Encoders Sales by Maximum Speed
  - 2.2.5.1 Global Non-Contact Capacitive Modulation Encoders Sales Market Share by Maximum Speed (2021-2026)
  - 2.2.5.2 Global Non-Contact Capacitive Modulation Encoders Revenue and Market Share by Maximum Speed (2021-2026)
  - 2.2.5.3 Global Non-Contact Capacitive Modulation Encoders Sale Price by Maximum Speed (2021-2026)

#### 2.3 Non-Contact Capacitive Modulation Encoders Segment by Input Voltage

- 2.3.1 3.6V
- 2.3.2 4.5V
- 2.3.3 Others
- 2.3.4 Non-Contact Capacitive Modulation Encoders Sales by Input Voltage
  - 2.3.4.1 Global Non-Contact Capacitive Modulation Encoders Sales Market Share by

## Input Voltage (2021-2026)

2.3.4.2 Global Non-Contact Capacitive Modulation Encoders Revenue and Market Share by Input Voltage (2021-2026)

2.3.4.3 Global Non-Contact Capacitive Modulation Encoders Sale Price by Input Voltage (2021-2026)

## 2.4 Non-Contact Capacitive Modulation Encoders Segment by Orientation

2.4.1 Axial

2.4.2 Radial

2.4.3 Non-Contact Capacitive Modulation Encoders Sales by Orientation

2.4.3.1 Global Non-Contact Capacitive Modulation Encoders Sales Market Share by Orientation (2021-2026)

2.4.3.2 Global Non-Contact Capacitive Modulation Encoders Revenue and Market Share by Orientation (2021-2026)

2.4.3.3 Global Non-Contact Capacitive Modulation Encoders Sale Price by Orientation (2021-2026)

## 2.5 Non-Contact Capacitive Modulation Encoders Segment by Application

2.5.1 Industrial Automation

2.5.2 Aerospace

2.5.3 Medical

2.5.4 Others

2.5.5 Non-Contact Capacitive Modulation Encoders Sales by Application

2.5.5.1 Global Non-Contact Capacitive Modulation Encoders Sale Market Share by Application (2021-2026)

2.5.5.2 Global Non-Contact Capacitive Modulation Encoders Revenue and Market Share by Application (2021-2026)

2.5.5.3 Global Non-Contact Capacitive Modulation Encoders Sale Price by Application (2021-2026)

## **3 GLOBAL BY COMPANY**

### 3.1 Global Non-Contact Capacitive Modulation Encoders Breakdown Data by Company

3.1.1 Global Non-Contact Capacitive Modulation Encoders Annual Sales by Company (2021-2026)

3.1.2 Global Non-Contact Capacitive Modulation Encoders Sales Market Share by Company (2021-2026)

3.2 Global Non-Contact Capacitive Modulation Encoders Annual Revenue by Company (2021-2026)

3.2.1 Global Non-Contact Capacitive Modulation Encoders Revenue by Company (2021-2026)

3.2.2 Global Non-Contact Capacitive Modulation Encoders Revenue Market Share by Company (2021-2026)

3.3 Global Non-Contact Capacitive Modulation Encoders Sale Price by Company

3.4 Key Manufacturers Non-Contact Capacitive Modulation Encoders Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Non-Contact Capacitive Modulation Encoders Product Location Distribution

3.4.2 Players Non-Contact Capacitive Modulation Encoders Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

## **4 WORLD HISTORIC REVIEW FOR NON-CONTACT CAPACITIVE MODULATION ENCODERS BY GEOGRAPHIC REGION**

4.1 World Historic Non-Contact Capacitive Modulation Encoders Market Size by Geographic Region (2021-2026)

4.1.1 Global Non-Contact Capacitive Modulation Encoders Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Non-Contact Capacitive Modulation Encoders Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Non-Contact Capacitive Modulation Encoders Market Size by Country/Region (2021-2026)

4.2.1 Global Non-Contact Capacitive Modulation Encoders Annual Sales by Country/Region (2021-2026)

4.2.2 Global Non-Contact Capacitive Modulation Encoders Annual Revenue by Country/Region (2021-2026)

4.3 Americas Non-Contact Capacitive Modulation Encoders Sales Growth

4.4 APAC Non-Contact Capacitive Modulation Encoders Sales Growth

4.5 Europe Non-Contact Capacitive Modulation Encoders Sales Growth

4.6 Middle East & Africa Non-Contact Capacitive Modulation Encoders Sales Growth

## **5 AMERICAS**

5.1 Americas Non-Contact Capacitive Modulation Encoders Sales by Country

5.1.1 Americas Non-Contact Capacitive Modulation Encoders Sales by Country (2021-2026)

5.1.2 Americas Non-Contact Capacitive Modulation Encoders Revenue by Country  
(2021-2026)

5.2 Americas Non-Contact Capacitive Modulation Encoders Sales by Maximum Speed  
(2021-2026)

5.3 Americas Non-Contact Capacitive Modulation Encoders Sales by Application  
(2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

## **6 APAC**

6.1 APAC Non-Contact Capacitive Modulation Encoders Sales by Region

6.1.1 APAC Non-Contact Capacitive Modulation Encoders Sales by Region  
(2021-2026)

6.1.2 APAC Non-Contact Capacitive Modulation Encoders Revenue by Region  
(2021-2026)

6.2 APAC Non-Contact Capacitive Modulation Encoders Sales by Maximum Speed  
(2021-2026)

6.3 APAC Non-Contact Capacitive Modulation Encoders Sales by Application  
(2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

## **7 EUROPE**

7.1 Europe Non-Contact Capacitive Modulation Encoders by Country

7.1.1 Europe Non-Contact Capacitive Modulation Encoders Sales by Country  
(2021-2026)

7.1.2 Europe Non-Contact Capacitive Modulation Encoders Revenue by Country  
(2021-2026)

7.2 Europe Non-Contact Capacitive Modulation Encoders Sales by Maximum Speed  
(2021-2026)

### 7.3 Europe Non-Contact Capacitive Modulation Encoders Sales by Application (2021-2026)

#### 7.4 Germany

#### 7.5 France

#### 7.6 UK

#### 7.7 Italy

#### 7.8 Russia

## **8 MIDDLE EAST & AFRICA**

### 8.1 Middle East & Africa Non-Contact Capacitive Modulation Encoders by Country

#### 8.1.1 Middle East & Africa Non-Contact Capacitive Modulation Encoders Sales by Country (2021-2026)

#### 8.1.2 Middle East & Africa Non-Contact Capacitive Modulation Encoders Revenue by Country (2021-2026)

### 8.2 Middle East & Africa Non-Contact Capacitive Modulation Encoders Sales by Maximum Speed (2021-2026)

### 8.3 Middle East & Africa Non-Contact Capacitive Modulation Encoders Sales by Application (2021-2026)

#### 8.4 Egypt

#### 8.5 South Africa

#### 8.6 Israel

#### 8.7 Turkey

#### 8.8 GCC Countries

## **9 MARKET DRIVERS, CHALLENGES AND TRENDS**

### 9.1 Market Drivers & Growth Opportunities

### 9.2 Market Challenges & Risks

### 9.3 Industry Trends

## **10 MANUFACTURING COST STRUCTURE ANALYSIS**

### 10.1 Raw Material and Suppliers

### 10.2 Manufacturing Cost Structure Analysis of Non-Contact Capacitive Modulation Encoders

### 10.3 Manufacturing Process Analysis of Non-Contact Capacitive Modulation Encoders

### 10.4 Industry Chain Structure of Non-Contact Capacitive Modulation Encoders

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

### 11.1 Sales Channel

#### 11.1.1 Direct Channels

#### 11.1.2 Indirect Channels

### 11.2 Non-Contact Capacitive Modulation Encoders Distributors

### 11.3 Non-Contact Capacitive Modulation Encoders Customer

## **12 WORLD FORECAST REVIEW FOR NON-CONTACT CAPACITIVE MODULATION ENCODERS BY GEOGRAPHIC REGION**

### 12.1 Global Non-Contact Capacitive Modulation Encoders Market Size Forecast by Region

#### 12.1.1 Global Non-Contact Capacitive Modulation Encoders Forecast by Region (2027-2032)

#### 12.1.2 Global Non-Contact Capacitive Modulation Encoders Annual Revenue Forecast by Region (2027-2032)

### 12.2 Americas Forecast by Country (2027-2032)

### 12.3 APAC Forecast by Region (2027-2032)

### 12.4 Europe Forecast by Country (2027-2032)

### 12.5 Middle East & Africa Forecast by Country (2027-2032)

### 12.6 Global Non-Contact Capacitive Modulation Encoders Forecast by Maximum Speed (2027-2032)

### 12.7 Global Non-Contact Capacitive Modulation Encoders Forecast by Application (2027-2032)

## **13 KEY PLAYERS ANALYSIS**

### 13.1 Kappasense

#### 13.1.1 Kappasense Company Information

#### 13.1.2 Kappasense Non-Contact Capacitive Modulation Encoders Product Portfolios and Specifications

#### 13.1.3 Kappasense Non-Contact Capacitive Modulation Encoders Sales, Revenue, Price and Gross Margin (2021-2026)

#### 13.1.4 Kappasense Main Business Overview

#### 13.1.5 Kappasense Latest Developments

### 13.2 Same Sky

#### 13.2.1 Same Sky Company Information

#### 13.2.2 Same Sky Non-Contact Capacitive Modulation Encoders Product Portfolios and

## Specifications

13.2.3 Same Sky Non-Contact Capacitive Modulation Encoders Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Same Sky Main Business Overview

13.2.5 Same Sky Latest Developments

## 13.3 Netzer

13.3.1 Netzer Company Information

13.3.2 Netzer Non-Contact Capacitive Modulation Encoders Product Portfolios and Specifications

13.3.3 Netzer Non-Contact Capacitive Modulation Encoders Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Netzer Main Business Overview

13.3.5 Netzer Latest Developments

## 13.4 TR Electronic

13.4.1 TR Electronic Company Information

13.4.2 TR Electronic Non-Contact Capacitive Modulation Encoders Product Portfolios and Specifications

13.4.3 TR Electronic Non-Contact Capacitive Modulation Encoders Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 TR Electronic Main Business Overview

13.4.5 TR Electronic Latest Developments

## 13.5 Heidenhain

13.5.1 Heidenhain Company Information

13.5.2 Heidenhain Non-Contact Capacitive Modulation Encoders Product Portfolios and Specifications

13.5.3 Heidenhain Non-Contact Capacitive Modulation Encoders Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Heidenhain Main Business Overview

13.5.5 Heidenhain Latest Developments

## 13.6 PoLabs

13.6.1 PoLabs Company Information

13.6.2 PoLabs Non-Contact Capacitive Modulation Encoders Product Portfolios and Specifications

13.6.3 PoLabs Non-Contact Capacitive Modulation Encoders Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 PoLabs Main Business Overview

13.6.5 PoLabs Latest Developments

## 13.7 Posital-Fraba

13.7.1 Posital-Fraba Company Information

13.7.2 Posital-Fraba Non-Contact Capacitive Modulation Encoders Product Portfolios and Specifications

13.7.3 Posital-Fraba Non-Contact Capacitive Modulation Encoders Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Posital-Fraba Main Business Overview

13.7.5 Posital-Fraba Latest Developments

13.8 Hengstler

13.8.1 Hengstler Company Information

13.8.2 Hengstler Non-Contact Capacitive Modulation Encoders Product Portfolios and Specifications

13.8.3 Hengstler Non-Contact Capacitive Modulation Encoders Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Hengstler Main Business Overview

13.8.5 Hengstler Latest Developments

13.9 Bourns

13.9.1 Bourns Company Information

13.9.2 Bourns Non-Contact Capacitive Modulation Encoders Product Portfolios and Specifications

13.9.3 Bourns Non-Contact Capacitive Modulation Encoders Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Bourns Main Business Overview

13.9.5 Bourns Latest Developments

13.10 SICK

13.10.1 SICK Company Information

13.10.2 SICK Non-Contact Capacitive Modulation Encoders Product Portfolios and Specifications

13.10.3 SICK Non-Contact Capacitive Modulation Encoders Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 SICK Main Business Overview

13.10.5 SICK Latest Developments

13.11 Georg Schlegel

13.11.1 Georg Schlegel Company Information

13.11.2 Georg Schlegel Non-Contact Capacitive Modulation Encoders Product Portfolios and Specifications

13.11.3 Georg Schlegel Non-Contact Capacitive Modulation Encoders Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Georg Schlegel Main Business Overview

13.11.5 Georg Schlegel Latest Developments

13.12 Micro-Epsilon

13.12.1 Micro-Epsilon Company Information

13.12.2 Micro-Epsilon Non-Contact Capacitive Modulation Encoders Product Portfolios and Specifications

13.12.3 Micro-Epsilon Non-Contact Capacitive Modulation Encoders Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Micro-Epsilon Main Business Overview

13.12.5 Micro-Epsilon Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

- Table 1. Non-Contact Capacitive Modulation Encoders Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. Non-Contact Capacitive Modulation Encoders Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of 7500 RPM
- Table 4. Major Players of 8000 RPM
- Table 5. Major Players of 10000 RPM
- Table 6. Major Players of Others
- Table 7. Global Non-Contact Capacitive Modulation Encoders Sales by Maximum Speed (2021-2026) & (K Units)
- Table 8. Global Non-Contact Capacitive Modulation Encoders Sales Market Share by Maximum Speed (2021-2026)
- Table 9. Global Non-Contact Capacitive Modulation Encoders Revenue by Maximum Speed (2021-2026) & (\$ million)
- Table 10. Global Non-Contact Capacitive Modulation Encoders Revenue Market Share by Maximum Speed (2021-2026)
- Table 11. Global Non-Contact Capacitive Modulation Encoders Sale Price by Maximum Speed (2021-2026) & (US\$/Unit)
- Table 12. Major Players of 3.6V
- Table 13. Major Players of 4.5V
- Table 14. Major Players of Others
- Table 15. Global Non-Contact Capacitive Modulation Encoders Sales by Input Voltage (2021-2026) & (K Units)
- Table 16. Global Non-Contact Capacitive Modulation Encoders Sales Market Share by Input Voltage (2021-2026)
- Table 17. Global Non-Contact Capacitive Modulation Encoders Revenue by Input Voltage (2021-2026) & (\$ million)
- Table 18. Global Non-Contact Capacitive Modulation Encoders Revenue Market Share by Input Voltage (2021-2026)
- Table 19. Global Non-Contact Capacitive Modulation Encoders Sale Price by Input Voltage (2021-2026) & (US\$/Unit)
- Table 20. Major Players of Axial
- Table 21. Major Players of Radial
- Table 22. Global Non-Contact Capacitive Modulation Encoders Sales by Orientation (2021-2026) & (K Units)

- Table 23. Global Non-Contact Capacitive Modulation Encoders Sales Market Share by Orientation (2021-2026)
- Table 24. Global Non-Contact Capacitive Modulation Encoders Revenue by Orientation (2021-2026) & (\$ million)
- Table 25. Global Non-Contact Capacitive Modulation Encoders Revenue Market Share by Orientation (2021-2026)
- Table 26. Global Non-Contact Capacitive Modulation Encoders Sale Price by Orientation (2021-2026) & (US\$/Unit)
- Table 27. Global Non-Contact Capacitive Modulation Encoders Sale by Application (2021-2026) & (K Units)
- Table 28. Global Non-Contact Capacitive Modulation Encoders Sale Market Share by Application (2021-2026)
- Table 29. Global Non-Contact Capacitive Modulation Encoders Revenue by Application (2021-2026) & (\$ million)
- Table 30. Global Non-Contact Capacitive Modulation Encoders Revenue Market Share by Application (2021-2026)
- Table 31. Global Non-Contact Capacitive Modulation Encoders Sale Price by Application (2021-2026) & (US\$/Unit)
- Table 32. Global Non-Contact Capacitive Modulation Encoders Sales by Company (2021-2026) & (K Units)
- Table 33. Global Non-Contact Capacitive Modulation Encoders Sales Market Share by Company (2021-2026)
- Table 34. Global Non-Contact Capacitive Modulation Encoders Revenue by Company (2021-2026) & (\$ millions)
- Table 35. Global Non-Contact Capacitive Modulation Encoders Revenue Market Share by Company (2021-2026)
- Table 36. Global Non-Contact Capacitive Modulation Encoders Sale Price by Company (2021-2026) & (US\$/Unit)
- Table 37. Key Manufacturers Non-Contact Capacitive Modulation Encoders Producing Area Distribution and Sales Area
- Table 38. Players Non-Contact Capacitive Modulation Encoders Products Offered
- Table 39. Non-Contact Capacitive Modulation Encoders Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- Table 40. New Products and Potential Entrants
- Table 41. Market M&A Activity & Strategy
- Table 42. Global Non-Contact Capacitive Modulation Encoders Sales by Geographic Region (2021-2026) & (K Units)
- Table 43. Global Non-Contact Capacitive Modulation Encoders Sales Market Share Geographic Region (2021-2026)

Table 44. Global Non-Contact Capacitive Modulation Encoders Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 45. Global Non-Contact Capacitive Modulation Encoders Revenue Market Share by Geographic Region (2021-2026)

Table 46. Global Non-Contact Capacitive Modulation Encoders Sales by Country/Region (2021-2026) & (K Units)

Table 47. Global Non-Contact Capacitive Modulation Encoders Sales Market Share by Country/Region (2021-2026)

Table 48. Global Non-Contact Capacitive Modulation Encoders Revenue by Country/Region (2021-2026) & (\$ millions)

Table 49. Global Non-Contact Capacitive Modulation Encoders Revenue Market Share by Country/Region (2021-2026)

Table 50. Americas Non-Contact Capacitive Modulation Encoders Sales by Country (2021-2026) & (K Units)

Table 51. Americas Non-Contact Capacitive Modulation Encoders Sales Market Share by Country (2021-2026)

Table 52. Americas Non-Contact Capacitive Modulation Encoders Revenue by Country (2021-2026) & (\$ millions)

Table 53. Americas Non-Contact Capacitive Modulation Encoders Sales by Maximum Speed (2021-2026) & (K Units)

Table 54. Americas Non-Contact Capacitive Modulation Encoders Sales by Application (2021-2026) & (K Units)

Table 55. APAC Non-Contact Capacitive Modulation Encoders Sales by Region (2021-2026) & (K Units)

Table 56. APAC Non-Contact Capacitive Modulation Encoders Sales Market Share by Region (2021-2026)

Table 57. APAC Non-Contact Capacitive Modulation Encoders Revenue by Region (2021-2026) & (\$ millions)

Table 58. APAC Non-Contact Capacitive Modulation Encoders Sales by Maximum Speed (2021-2026) & (K Units)

Table 59. APAC Non-Contact Capacitive Modulation Encoders Sales by Application (2021-2026) & (K Units)

Table 60. Europe Non-Contact Capacitive Modulation Encoders Sales by Country (2021-2026) & (K Units)

Table 61. Europe Non-Contact Capacitive Modulation Encoders Revenue by Country (2021-2026) & (\$ millions)

Table 62. Europe Non-Contact Capacitive Modulation Encoders Sales by Maximum Speed (2021-2026) & (K Units)

Table 63. Europe Non-Contact Capacitive Modulation Encoders Sales by Application

(2021-2026) & (K Units)

Table 64. Middle East & Africa Non-Contact Capacitive Modulation Encoders Sales by Country (2021-2026) & (K Units)

Table 65. Middle East & Africa Non-Contact Capacitive Modulation Encoders Revenue Market Share by Country (2021-2026)

Table 66. Middle East & Africa Non-Contact Capacitive Modulation Encoders Sales by Maximum Speed (2021-2026) & (K Units)

Table 67. Middle East & Africa Non-Contact Capacitive Modulation Encoders Sales by Application (2021-2026) & (K Units)

Table 68. Key Market Drivers & Growth Opportunities of Non-Contact Capacitive Modulation Encoders

Table 69. Key Market Challenges & Risks of Non-Contact Capacitive Modulation Encoders

Table 70. Key Industry Trends of Non-Contact Capacitive Modulation Encoders

Table 71. Non-Contact Capacitive Modulation Encoders Raw Material

Table 72. Key Suppliers of Raw Materials

Table 73. Non-Contact Capacitive Modulation Encoders Distributors List

Table 74. Non-Contact Capacitive Modulation Encoders Customer List

Table 75. Global Non-Contact Capacitive Modulation Encoders Sales Forecast by Region (2027-2032) & (K Units)

Table 76. Global Non-Contact Capacitive Modulation Encoders Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 77. Americas Non-Contact Capacitive Modulation Encoders Sales Forecast by Country (2027-2032) & (K Units)

Table 78. Americas Non-Contact Capacitive Modulation Encoders Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 79. APAC Non-Contact Capacitive Modulation Encoders Sales Forecast by Region (2027-2032) & (K Units)

Table 80. APAC Non-Contact Capacitive Modulation Encoders Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 81. Europe Non-Contact Capacitive Modulation Encoders Sales Forecast by Country (2027-2032) & (K Units)

Table 82. Europe Non-Contact Capacitive Modulation Encoders Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Middle East & Africa Non-Contact Capacitive Modulation Encoders Sales Forecast by Country (2027-2032) & (K Units)

Table 84. Middle East & Africa Non-Contact Capacitive Modulation Encoders Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 85. Global Non-Contact Capacitive Modulation Encoders Sales Forecast by

Maximum Speed (2027-2032) & (K Units)

Table 86. Global Non-Contact Capacitive Modulation Encoders Revenue Forecast by Maximum Speed (2027-2032) & (\$ millions)

Table 87. Global Non-Contact Capacitive Modulation Encoders Sales Forecast by Application (2027-2032) & (K Units)

Table 88. Global Non-Contact Capacitive Modulation Encoders Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 89. Kappasense Basic Information, Non-Contact Capacitive Modulation Encoders Manufacturing Base, Sales Area and Its Competitors

Table 90. Kappasense Non-Contact Capacitive Modulation Encoders Product Portfolios and Specifications

Table 91. Kappasense Non-Contact Capacitive Modulation Encoders Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 92. Kappasense Main Business

Table 93. Kappasense Latest Developments

Table 94. Same Sky Basic Information, Non-Contact Capacitive Modulation Encoders Manufacturing Base, Sales Area and Its Competitors

Table 95. Same Sky Non-Contact Capacitive Modulation Encoders Product Portfolios and Specifications

Table 96. Same Sky Non-Contact Capacitive Modulation Encoders Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 97. Same Sky Main Business

Table 98. Same Sky Latest Developments

Table 99. Netzer Basic Information, Non-Contact Capacitive Modulation Encoders Manufacturing Base, Sales Area and Its Competitors

Table 100. Netzer Non-Contact Capacitive Modulation Encoders Product Portfolios and Specifications

Table 101. Netzer Non-Contact Capacitive Modulation Encoders Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 102. Netzer Main Business

Table 103. Netzer Latest Developments

Table 104. TR Electronic Basic Information, Non-Contact Capacitive Modulation Encoders Manufacturing Base, Sales Area and Its Competitors

Table 105. TR Electronic Non-Contact Capacitive Modulation Encoders Product Portfolios and Specifications

Table 106. TR Electronic Non-Contact Capacitive Modulation Encoders Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 107. TR Electronic Main Business

Table 108. TR Electronic Latest Developments

Table 109. Heidenhain Basic Information, Non-Contact Capacitive Modulation Encoders Manufacturing Base, Sales Area and Its Competitors

Table 110. Heidenhain Non-Contact Capacitive Modulation Encoders Product Portfolios and Specifications

Table 111. Heidenhain Non-Contact Capacitive Modulation Encoders Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 112. Heidenhain Main Business

Table 113. Heidenhain Latest Developments

Table 114. PoLabs Basic Information, Non-Contact Capacitive Modulation Encoders Manufacturing Base, Sales Area and Its Competitors

Table 115. PoLabs Non-Contact Capacitive Modulation Encoders Product Portfolios and Specifications

Table 116. PoLabs Non-Contact Capacitive Modulation Encoders Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 117. PoLabs Main Business

Table 118. PoLabs Latest Developments

Table 119. Posital-Fraba Basic Information, Non-Contact Capacitive Modulation Encoders Manufacturing Base, Sales Area and Its Competitors

Table 120. Posital-Fraba Non-Contact Capacitive Modulation Encoders Product Portfolios and Specifications

Table 121. Posital-Fraba Non-Contact Capacitive Modulation Encoders Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 122. Posital-Fraba Main Business

Table 123. Posital-Fraba Latest Developments

Table 124. Hengstler Basic Information, Non-Contact Capacitive Modulation Encoders Manufacturing Base, Sales Area and Its Competitors

Table 125. Hengstler Non-Contact Capacitive Modulation Encoders Product Portfolios and Specifications

Table 126. Hengstler Non-Contact Capacitive Modulation Encoders Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 127. Hengstler Main Business

Table 128. Hengstler Latest Developments

Table 129. Bourns Basic Information, Non-Contact Capacitive Modulation Encoders Manufacturing Base, Sales Area and Its Competitors

Table 130. Bourns Non-Contact Capacitive Modulation Encoders Product Portfolios and Specifications

Table 131. Bourns Non-Contact Capacitive Modulation Encoders Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 132. Bourns Main Business

Table 133. Bourns Latest Developments

Table 134. SICK Basic Information, Non-Contact Capacitive Modulation Encoders Manufacturing Base, Sales Area and Its Competitors

Table 135. SICK Non-Contact Capacitive Modulation Encoders Product Portfolios and Specifications

Table 136. SICK Non-Contact Capacitive Modulation Encoders Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 137. SICK Main Business

Table 138. SICK Latest Developments

Table 139. Georg Schlegel Basic Information, Non-Contact Capacitive Modulation Encoders Manufacturing Base, Sales Area and Its Competitors

Table 140. Georg Schlegel Non-Contact Capacitive Modulation Encoders Product Portfolios and Specifications

Table 141. Georg Schlegel Non-Contact Capacitive Modulation Encoders Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 142. Georg Schlegel Main Business

Table 143. Georg Schlegel Latest Developments

Table 144. Micro-Epsilon Basic Information, Non-Contact Capacitive Modulation Encoders Manufacturing Base, Sales Area and Its Competitors

Table 145. Micro-Epsilon Non-Contact Capacitive Modulation Encoders Product Portfolios and Specifications

Table 146. Micro-Epsilon Non-Contact Capacitive Modulation Encoders Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 147. Micro-Epsilon Main Business

Table 148. Micro-Epsilon Latest Developments

## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of Non-Contact Capacitive Modulation Encoders
- Figure 2. Non-Contact Capacitive Modulation Encoders Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Non-Contact Capacitive Modulation Encoders Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Non-Contact Capacitive Modulation Encoders Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Non-Contact Capacitive Modulation Encoders Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Non-Contact Capacitive Modulation Encoders Sales Market Share by Country/Region (2025)
- Figure 10. Non-Contact Capacitive Modulation Encoders Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of 7500 RPM
- Figure 12. Product Picture of 8000 RPM
- Figure 13. Product Picture of 10000 RPM
- Figure 14. Product Picture of Others
- Figure 15. Global Non-Contact Capacitive Modulation Encoders Sales Market Share by Maximum Speed in 2026
- Figure 16. Global Non-Contact Capacitive Modulation Encoders Revenue Market Share by Maximum Speed (2021-2026)
- Figure 17. Product Picture of 3.6V
- Figure 18. Product Picture of 4.5V
- Figure 19. Product Picture of Others
- Figure 20. Global Non-Contact Capacitive Modulation Encoders Sales Market Share by Input Voltage in 2026
- Figure 21. Global Non-Contact Capacitive Modulation Encoders Revenue Market Share by Input Voltage (2021-2026)
- Figure 22. Product Picture of Axial
- Figure 23. Product Picture of Radial
- Figure 24. Global Non-Contact Capacitive Modulation Encoders Sales Market Share by Orientation in 2026
- Figure 25. Global Non-Contact Capacitive Modulation Encoders Revenue Market Share

by Orientation (2021-2026)

Figure 26. Non-Contact Capacitive Modulation Encoders Consumed in Industrial Automation

Figure 27. Global Non-Contact Capacitive Modulation Encoders Market: Industrial Automation (2021-2026) & (K Units)

Figure 28. Non-Contact Capacitive Modulation Encoders Consumed in Aerospace

Figure 29. Global Non-Contact Capacitive Modulation Encoders Market: Aerospace (2021-2026) & (K Units)

Figure 30. Non-Contact Capacitive Modulation Encoders Consumed in Medical

Figure 31. Global Non-Contact Capacitive Modulation Encoders Market: Medical (2021-2026) & (K Units)

Figure 32. Non-Contact Capacitive Modulation Encoders Consumed in Others

Figure 33. Global Non-Contact Capacitive Modulation Encoders Market: Others (2021-2026) & (K Units)

Figure 34. Global Non-Contact Capacitive Modulation Encoders Sale Market Share by Application (2025)

Figure 35. Global Non-Contact Capacitive Modulation Encoders Revenue Market Share by Application in 2026

Figure 36. Non-Contact Capacitive Modulation Encoders Sales by Company in 2026 (K Units)

Figure 37. Global Non-Contact Capacitive Modulation Encoders Sales Market Share by Company in 2026

Figure 38. Non-Contact Capacitive Modulation Encoders Revenue by Company in 2026 (\$ millions)

Figure 39. Global Non-Contact Capacitive Modulation Encoders Revenue Market Share by Company in 2026

Figure 40. Global Non-Contact Capacitive Modulation Encoders Sales Market Share by Geographic Region (2021-2026)

Figure 41. Global Non-Contact Capacitive Modulation Encoders Revenue Market Share by Geographic Region in 2026

Figure 42. Americas Non-Contact Capacitive Modulation Encoders Sales 2021-2026 (K Units)

Figure 43. Americas Non-Contact Capacitive Modulation Encoders Revenue 2021-2026 (\$ millions)

Figure 44. APAC Non-Contact Capacitive Modulation Encoders Sales 2021-2026 (K Units)

Figure 45. APAC Non-Contact Capacitive Modulation Encoders Revenue 2021-2026 (\$ millions)

Figure 46. Europe Non-Contact Capacitive Modulation Encoders Sales 2021-2026 (K

Units)

Figure 47. Europe Non-Contact Capacitive Modulation Encoders Revenue 2021-2026 (\$ millions)

Figure 48. Middle East & Africa Non-Contact Capacitive Modulation Encoders Sales 2021-2026 (K Units)

Figure 49. Middle East & Africa Non-Contact Capacitive Modulation Encoders Revenue 2021-2026 (\$ millions)

Figure 50. Americas Non-Contact Capacitive Modulation Encoders Sales Market Share by Country in 2026

Figure 51. Americas Non-Contact Capacitive Modulation Encoders Revenue Market Share by Country (2021-2026)

Figure 52. Americas Non-Contact Capacitive Modulation Encoders Sales Market Share by Maximum Speed (2021-2026)

Figure 53. Americas Non-Contact Capacitive Modulation Encoders Sales Market Share by Application (2021-2026)

Figure 54. United States Non-Contact Capacitive Modulation Encoders Revenue Growth 2021-2026 (\$ millions)

Figure 55. Canada Non-Contact Capacitive Modulation Encoders Revenue Growth 2021-2026 (\$ millions)

Figure 56. Mexico Non-Contact Capacitive Modulation Encoders Revenue Growth 2021-2026 (\$ millions)

Figure 57. Brazil Non-Contact Capacitive Modulation Encoders Revenue Growth 2021-2026 (\$ millions)

Figure 58. APAC Non-Contact Capacitive Modulation Encoders Sales Market Share by Region in 2026

Figure 59. APAC Non-Contact Capacitive Modulation Encoders Revenue Market Share by Region (2021-2026)

Figure 60. APAC Non-Contact Capacitive Modulation Encoders Sales Market Share by Maximum Speed (2021-2026)

Figure 61. APAC Non-Contact Capacitive Modulation Encoders Sales Market Share by Application (2021-2026)

Figure 62. China Non-Contact Capacitive Modulation Encoders Revenue Growth 2021-2026 (\$ millions)

Figure 63. Japan Non-Contact Capacitive Modulation Encoders Revenue Growth 2021-2026 (\$ millions)

Figure 64. South Korea Non-Contact Capacitive Modulation Encoders Revenue Growth 2021-2026 (\$ millions)

Figure 65. Southeast Asia Non-Contact Capacitive Modulation Encoders Revenue Growth 2021-2026 (\$ millions)

Figure 66. India Non-Contact Capacitive Modulation Encoders Revenue Growth 2021-2026 (\$ millions)

Figure 67. Australia Non-Contact Capacitive Modulation Encoders Revenue Growth 2021-2026 (\$ millions)

Figure 68. China Taiwan Non-Contact Capacitive Modulation Encoders Revenue Growth 2021-2026 (\$ millions)

Figure 69. Europe Non-Contact Capacitive Modulation Encoders Sales Market Share by Country in 2026

Figure 70. Europe Non-Contact Capacitive Modulation Encoders Revenue Market Share by Country (2021-2026)

Figure 71. Europe Non-Contact Capacitive Modulation Encoders Sales Market Share by Maximum Speed (2021-2026)

Figure 72. Europe Non-Contact Capacitive Modulation Encoders Sales Market Share by Application (2021-2026)

Figure 73. Germany Non-Contact Capacitive Modulation Encoders Revenue Growth 2021-2026 (\$ millions)

Figure 74. France Non-Contact Capacitive Modulation Encoders Revenue Growth 2021-2026 (\$ millions)

Figure 75. UK Non-Contact Capacitive Modulation Encoders Revenue Growth 2021-2026 (\$ millions)

Figure 76. Italy Non-Contact Capacitive Modulation Encoders Revenue Growth 2021-2026 (\$ millions)

Figure 77. Russia Non-Contact Capacitive Modulation Encoders Revenue Growth 2021-2026 (\$ millions)

Figure 78. Middle East & Africa Non-Contact Capacitive Modulation Encoders Sales Market Share by Country (2021-2026)

Figure 79. Middle East & Africa Non-Contact Capacitive Modulation Encoders Sales Market Share by Maximum Speed (2021-2026)

Figure 80. Middle East & Africa Non-Contact Capacitive Modulation Encoders Sales Market Share by Application (2021-2026)

Figure 81. Egypt Non-Contact Capacitive Modulation Encoders Revenue Growth 2021-2026 (\$ millions)

Figure 82. South Africa Non-Contact Capacitive Modulation Encoders Revenue Growth 2021-2026 (\$ millions)

Figure 83. Israel Non-Contact Capacitive Modulation Encoders Revenue Growth 2021-2026 (\$ millions)

Figure 84. Turkey Non-Contact Capacitive Modulation Encoders Revenue Growth 2021-2026 (\$ millions)

Figure 85. GCC Countries Non-Contact Capacitive Modulation Encoders Revenue

Growth 2021-2026 (\$ millions)

Figure 86. Manufacturing Cost Structure Analysis of Non-Contact Capacitive Modulation Encoders in 2026

Figure 87. Manufacturing Process Analysis of Non-Contact Capacitive Modulation Encoders

Figure 88. Industry Chain Structure of Non-Contact Capacitive Modulation Encoders

Figure 89. Channels of Distribution

Figure 90. Global Non-Contact Capacitive Modulation Encoders Sales Market Forecast by Region (2027-2032)

Figure 91. Global Non-Contact Capacitive Modulation Encoders Revenue Market Share Forecast by Region (2027-2032)

Figure 92. Global Non-Contact Capacitive Modulation Encoders Sales Market Share Forecast by Maximum Speed (2027-2032)

Figure 93. Global Non-Contact Capacitive Modulation Encoders Revenue Market Share Forecast by Maximum Speed (2027-2032)

Figure 94. Global Non-Contact Capacitive Modulation Encoders Sales Market Share Forecast by Application (2027-2032)

Figure 95. Global Non-Contact Capacitive Modulation Encoders Revenue Market Share Forecast by Application (2027-2032)

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