

# Global Non-Contact Capacitive Encoders Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Non-Contact Capacitive Encoders market size is expected to reach \$ 2339 million by 2032, rising at a market growth of 8.9% CAGR during the forecast period (2026-2032).

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 ?, 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.

This report studies the global Non-Contact Capacitive Encoders production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Non-Contact Capacitive Encoders 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 Capacitive Encoders that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Non-Contact Capacitive Encoders total production and demand, 2021-2032, (K Units)

Global Non-Contact Capacitive Encoders total production value, 2021-2032, (USD Million)

Global Non-Contact Capacitive Encoders production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Non-Contact Capacitive Encoders consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Non-Contact Capacitive Encoders domestic production, consumption, key domestic manufacturers and share

Global Non-Contact Capacitive Encoders production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Non-Contact Capacitive Encoders production by Maximum Speed, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Non-Contact Capacitive Encoders production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Non-Contact Capacitive Encoders 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 Kappasense, Same Sky, Netzer, TR Electronic, Heidenhain, PoLabs, Posital-Fraba, Hengstler, Bourns, SICK, 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 Capacitive Encoders 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 Maximum Speed, 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 Capacitive Encoders Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Non-Contact Capacitive Encoders Market, Segmentation by Maximum Speed:

7500 RPM

8000 RPM

10000 RPM

Others

Global Non-Contact Capacitive Encoders Market, Segmentation by Input Voltage:

3.6V

4.5V

Others

## Global Non-Contact Capacitive Encoders Market, Segmentation by Orientation:

Axial

Radial

## Global Non-Contact Capacitive Encoders Market, Segmentation by Application:

Industrial Automation

Aerospace

Medical

Others

## **Companies Profiled:**

Kappasense

Same Sky

Netzer

TR Electronic

Heidenhain

PoLabs

Posital-Fraba

Hengstler

Bourns

SICK

Georg Schlegel

Micro-Epsilon

**Key Questions Answered:**

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

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Non-Contact Capacitive Encoders Introduction
- 1.2 World Non-Contact Capacitive Encoders Supply & Forecast
  - 1.2.1 World Non-Contact Capacitive Encoders Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Non-Contact Capacitive Encoders Production (2021-2032)
  - 1.2.3 World Non-Contact Capacitive Encoders Pricing Trends (2021-2032)
- 1.3 World Non-Contact Capacitive Encoders Production by Region (Based on Production Site)
  - 1.3.1 World Non-Contact Capacitive Encoders Production Value by Region (2021-2032)
  - 1.3.2 World Non-Contact Capacitive Encoders Production by Region (2021-2032)
  - 1.3.3 World Non-Contact Capacitive Encoders Average Price by Region (2021-2032)
  - 1.3.4 North America Non-Contact Capacitive Encoders Production (2021-2032)
  - 1.3.5 Europe Non-Contact Capacitive Encoders Production (2021-2032)
  - 1.3.6 China Non-Contact Capacitive Encoders Production (2021-2032)
  - 1.3.7 Japan Non-Contact Capacitive Encoders Production (2021-2032)
  - 1.3.8 South Korea Non-Contact Capacitive Encoders Production (2021-2032)
  - 1.3.9 Southeast Asia Non-Contact Capacitive Encoders Production (2021-2032)
  - 1.3.10 China Taiwan Non-Contact Capacitive Encoders Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Non-Contact Capacitive Encoders Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Non-Contact Capacitive Encoders Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Non-Contact Capacitive Encoders Demand (2021-2032)
- 2.2 World Non-Contact Capacitive Encoders Consumption by Region
  - 2.2.1 World Non-Contact Capacitive Encoders Consumption by Region (2021-2026)
  - 2.2.2 World Non-Contact Capacitive Encoders Consumption Forecast by Region (2027-2032)
- 2.3 United States Non-Contact Capacitive Encoders Consumption (2021-2032)
- 2.4 China Non-Contact Capacitive Encoders Consumption (2021-2032)
- 2.5 Europe Non-Contact Capacitive Encoders Consumption (2021-2032)
- 2.6 Japan Non-Contact Capacitive Encoders Consumption (2021-2032)
- 2.7 South Korea Non-Contact Capacitive Encoders Consumption (2021-2032)

2.8 ASEAN Non-Contact Capacitive Encoders Consumption (2021-2032)

2.9 India Non-Contact Capacitive Encoders Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

3.1 World Non-Contact Capacitive Encoders Production Value by Manufacturer (2021-2026)

3.2 World Non-Contact Capacitive Encoders Production by Manufacturer (2021-2026)

3.3 World Non-Contact Capacitive Encoders Average Price by Manufacturer (2021-2026)

3.4 Non-Contact Capacitive Encoders Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Non-Contact Capacitive Encoders Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Non-Contact Capacitive Encoders in 2025

3.5.3 Global Concentration Ratios (CR8) for Non-Contact Capacitive Encoders in 2025

3.6 Non-Contact Capacitive Encoders Market: Overall Company Footprint Analysis

3.6.1 Non-Contact Capacitive Encoders Market: Region Footprint

3.6.2 Non-Contact Capacitive Encoders Market: Company Product Type Footprint

3.6.3 Non-Contact Capacitive Encoders Market: Company Product Application

Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

### **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

4.1 United States VS China: Non-Contact Capacitive Encoders Production Value Comparison

4.1.1 United States VS China: Non-Contact Capacitive Encoders Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Non-Contact Capacitive Encoders Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Non-Contact Capacitive Encoders Production Comparison

4.2.1 United States VS China: Non-Contact Capacitive Encoders Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Non-Contact Capacitive Encoders Production Market

Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Non-Contact Capacitive Encoders Consumption Comparison

4.3.1 United States VS China: Non-Contact Capacitive Encoders Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Non-Contact Capacitive Encoders Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Non-Contact Capacitive Encoders Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Non-Contact Capacitive Encoders Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Non-Contact Capacitive Encoders Production Value (2021-2026)

4.4.3 United States Based Manufacturers Non-Contact Capacitive Encoders Production (2021-2026)

4.5 China Based Non-Contact Capacitive Encoders Manufacturers and Market Share

4.5.1 China Based Non-Contact Capacitive Encoders Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Non-Contact Capacitive Encoders Production Value (2021-2026)

4.5.3 China Based Manufacturers Non-Contact Capacitive Encoders Production (2021-2026)

4.6 Rest of World Based Non-Contact Capacitive Encoders Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Non-Contact Capacitive Encoders Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Non-Contact Capacitive Encoders Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Non-Contact Capacitive Encoders Production (2021-2026)

## **5 MARKET ANALYSIS BY MAXIMUM SPEED**

5.1 World Non-Contact Capacitive Encoders Market Size Overview by Maximum Speed: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Maximum Speed

5.2.1 7500 RPM

5.2.2 8000 RPM

5.2.3 10000 RPM

#### 5.2.4 Others

### 5.3 Market Segment by Maximum Speed

5.3.1 World Non-Contact Capacitive Encoders Production by Maximum Speed  
(2021-2032)

5.3.2 World Non-Contact Capacitive Encoders Production Value by Maximum Speed  
(2021-2032)

5.3.3 World Non-Contact Capacitive Encoders Average Price by Maximum Speed  
(2021-2032)

## 6 MARKET ANALYSIS BY INPUT VOLTAGE

6.1 World Non-Contact Capacitive Encoders Market Size Overview by Input Voltage:  
2021 VS 2025 VS 2032

### 6.2 Segment Introduction by Input Voltage

6.2.1 3.6V

6.2.2 4.5V

6.2.3 Others

### 6.3 Market Segment by Input Voltage

6.3.1 World Non-Contact Capacitive Encoders Production by Input Voltage  
(2021-2032)

6.3.2 World Non-Contact Capacitive Encoders Production Value by Input Voltage  
(2021-2032)

6.3.3 World Non-Contact Capacitive Encoders Average Price by Input Voltage  
(2021-2032)

## 7 MARKET ANALYSIS BY ORIENTATION

7.1 World Non-Contact Capacitive Encoders Market Size Overview by Orientation: 2021  
VS 2025 VS 2032

### 7.2 Segment Introduction by Orientation

7.2.1 Axial

7.2.2 Radial

### 7.3 Market Segment by Orientation

7.3.1 World Non-Contact Capacitive Encoders Production by Orientation (2021-2032)

7.3.2 World Non-Contact Capacitive Encoders Production Value by Orientation  
(2021-2032)

7.3.3 World Non-Contact Capacitive Encoders Average Price by Orientation  
(2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Non-Contact Capacitive Encoders Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Industrial Automation

8.2.2 Aerospace

8.2.3 Medical

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Non-Contact Capacitive Encoders Production by Application (2021-2032)

8.3.2 World Non-Contact Capacitive Encoders Production Value by Application (2021-2032)

8.3.3 World Non-Contact Capacitive Encoders Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

9.1 Kappasense

9.1.1 Kappasense Details

9.1.2 Kappasense Major Business

9.1.3 Kappasense Non-Contact Capacitive Encoders Product and Services

9.1.4 Kappasense Non-Contact Capacitive Encoders Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Kappasense Recent Developments/Updates

9.1.6 Kappasense Competitive Strengths & Weaknesses

9.2 Same Sky

9.2.1 Same Sky Details

9.2.2 Same Sky Major Business

9.2.3 Same Sky Non-Contact Capacitive Encoders Product and Services

9.2.4 Same Sky Non-Contact Capacitive Encoders Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Same Sky Recent Developments/Updates

9.2.6 Same Sky Competitive Strengths & Weaknesses

9.3 Netzer

9.3.1 Netzer Details

9.3.2 Netzer Major Business

9.3.3 Netzer Non-Contact Capacitive Encoders Product and Services

9.3.4 Netzer Non-Contact Capacitive Encoders Production, Price, Value, Gross Margin

and Market Share (2021-2026)

9.3.5 Netzer Recent Developments/Updates

9.3.6 Netzer Competitive Strengths & Weaknesses

9.4 TR Electronic

9.4.1 TR Electronic Details

9.4.2 TR Electronic Major Business

9.4.3 TR Electronic Non-Contact Capacitive Encoders Product and Services

9.4.4 TR Electronic Non-Contact Capacitive Encoders Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 TR Electronic Recent Developments/Updates

9.4.6 TR Electronic Competitive Strengths & Weaknesses

9.5 Heidenhain

9.5.1 Heidenhain Details

9.5.2 Heidenhain Major Business

9.5.3 Heidenhain Non-Contact Capacitive Encoders Product and Services

9.5.4 Heidenhain Non-Contact Capacitive Encoders Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Heidenhain Recent Developments/Updates

9.5.6 Heidenhain Competitive Strengths & Weaknesses

9.6 PoLabs

9.6.1 PoLabs Details

9.6.2 PoLabs Major Business

9.6.3 PoLabs Non-Contact Capacitive Encoders Product and Services

9.6.4 PoLabs Non-Contact Capacitive Encoders Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 PoLabs Recent Developments/Updates

9.6.6 PoLabs Competitive Strengths & Weaknesses

9.7 Posital-Fraba

9.7.1 Posital-Fraba Details

9.7.2 Posital-Fraba Major Business

9.7.3 Posital-Fraba Non-Contact Capacitive Encoders Product and Services

9.7.4 Posital-Fraba Non-Contact Capacitive Encoders Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Posital-Fraba Recent Developments/Updates

9.7.6 Posital-Fraba Competitive Strengths & Weaknesses

9.8 Hengstler

9.8.1 Hengstler Details

9.8.2 Hengstler Major Business

9.8.3 Hengstler Non-Contact Capacitive Encoders Product and Services

9.8.4 Hengstler Non-Contact Capacitive Encoders Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Hengstler Recent Developments/Updates

9.8.6 Hengstler Competitive Strengths & Weaknesses

9.9 Bourns

9.9.1 Bourns Details

9.9.2 Bourns Major Business

9.9.3 Bourns Non-Contact Capacitive Encoders Product and Services

9.9.4 Bourns Non-Contact Capacitive Encoders Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Bourns Recent Developments/Updates

9.9.6 Bourns Competitive Strengths & Weaknesses

9.10 SICK

9.10.1 SICK Details

9.10.2 SICK Major Business

9.10.3 SICK Non-Contact Capacitive Encoders Product and Services

9.10.4 SICK Non-Contact Capacitive Encoders Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 SICK Recent Developments/Updates

9.10.6 SICK Competitive Strengths & Weaknesses

9.11 Georg Schlegel

9.11.1 Georg Schlegel Details

9.11.2 Georg Schlegel Major Business

9.11.3 Georg Schlegel Non-Contact Capacitive Encoders Product and Services

9.11.4 Georg Schlegel Non-Contact Capacitive Encoders Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Georg Schlegel Recent Developments/Updates

9.11.6 Georg Schlegel Competitive Strengths & Weaknesses

9.12 Micro-Epsilon

9.12.1 Micro-Epsilon Details

9.12.2 Micro-Epsilon Major Business

9.12.3 Micro-Epsilon Non-Contact Capacitive Encoders Product and Services

9.12.4 Micro-Epsilon Non-Contact Capacitive Encoders Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Micro-Epsilon Recent Developments/Updates

9.12.6 Micro-Epsilon Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 Non-Contact Capacitive Encoders Industry Chain
- 10.2 Non-Contact Capacitive Encoders Upstream Analysis
  - 10.2.1 Non-Contact Capacitive Encoders Core Raw Materials
  - 10.2.2 Main Manufacturers of Non-Contact Capacitive Encoders Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Non-Contact Capacitive Encoders Production Mode
- 10.6 Non-Contact Capacitive Encoders Procurement Model
- 10.7 Non-Contact Capacitive Encoders Industry Sales Model and Sales Channels
  - 10.7.1 Non-Contact Capacitive Encoders Sales Model
  - 10.7.2 Non-Contact Capacitive Encoders Typical Distributors

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Non-Contact Capacitive Encoders Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Non-Contact Capacitive Encoders Production Value by Region (2021-2026) & (USD Million)

Table 3. World Non-Contact Capacitive Encoders Production Value by Region (2027-2032) & (USD Million)

Table 4. World Non-Contact Capacitive Encoders Production Value Market Share by Region (2021-2026)

Table 5. World Non-Contact Capacitive Encoders Production Value Market Share by Region (2027-2032)

Table 6. World Non-Contact Capacitive Encoders Production by Region (2021-2026) & (K Units)

Table 7. World Non-Contact Capacitive Encoders Production by Region (2027-2032) & (K Units)

Table 8. World Non-Contact Capacitive Encoders Production Market Share by Region (2021-2026)

Table 9. World Non-Contact Capacitive Encoders Production Market Share by Region (2027-2032)

Table 10. World Non-Contact Capacitive Encoders Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Non-Contact Capacitive Encoders Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Non-Contact Capacitive Encoders Major Market Trends

Table 13. World Non-Contact Capacitive Encoders Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Non-Contact Capacitive Encoders Consumption by Region (2021-2026) & (K Units)

Table 15. World Non-Contact Capacitive Encoders Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Non-Contact Capacitive Encoders Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Non-Contact Capacitive Encoders Producers in 2025

Table 18. World Non-Contact Capacitive Encoders Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Non-Contact Capacitive Encoders Producers in 2025

Table 20. World Non-Contact Capacitive Encoders Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Non-Contact Capacitive Encoders Company Evaluation Quadrant

Table 22. World Non-Contact Capacitive Encoders Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Non-Contact Capacitive Encoders Production Site of Key Manufacturer

Table 24. Non-Contact Capacitive Encoders Market: Company Product Type Footprint

Table 25. Non-Contact Capacitive Encoders Market: Company Product Application Footprint

Table 26. Non-Contact Capacitive Encoders Competitive Factors

Table 27. Non-Contact Capacitive Encoders New Entrant and Capacity Expansion Plans

Table 28. Non-Contact Capacitive Encoders Mergers & Acquisitions Activity

Table 29. United States VS China Non-Contact Capacitive Encoders Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Non-Contact Capacitive Encoders Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Non-Contact Capacitive Encoders Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Non-Contact Capacitive Encoders Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Non-Contact Capacitive Encoders Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Non-Contact Capacitive Encoders Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Non-Contact Capacitive Encoders Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Non-Contact Capacitive Encoders Production Market Share (2021-2026)

Table 37. China Based Non-Contact Capacitive Encoders Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Non-Contact Capacitive Encoders Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Non-Contact Capacitive Encoders Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Non-Contact Capacitive Encoders Production,

(2021-2026) & (K Units)

Table 41. China Based Manufacturers Non-Contact Capacitive Encoders Production Market Share (2021-2026)

Table 42. Rest of World Based Non-Contact Capacitive Encoders Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Non-Contact Capacitive Encoders Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Non-Contact Capacitive Encoders Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Non-Contact Capacitive Encoders Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Non-Contact Capacitive Encoders Production Market Share (2021-2026)

Table 47. World Non-Contact Capacitive Encoders Production Value by Maximum Speed, (USD Million), 2021 & 2025 & 2032

Table 48. World Non-Contact Capacitive Encoders Production by Maximum Speed (2021-2026) & (K Units)

Table 49. World Non-Contact Capacitive Encoders Production by Maximum Speed (2027-2032) & (K Units)

Table 50. World Non-Contact Capacitive Encoders Production Value by Maximum Speed (2021-2026) & (USD Million)

Table 51. World Non-Contact Capacitive Encoders Production Value by Maximum Speed (2027-2032) & (USD Million)

Table 52. World Non-Contact Capacitive Encoders Average Price by Maximum Speed (2021-2026) & (US\$/Unit)

Table 53. World Non-Contact Capacitive Encoders Average Price by Maximum Speed (2027-2032) & (US\$/Unit)

Table 54. World Non-Contact Capacitive Encoders Production Value by Input Voltage, (USD Million), 2021 & 2025 & 2032

Table 55. World Non-Contact Capacitive Encoders Production by Input Voltage (2021-2026) & (K Units)

Table 56. World Non-Contact Capacitive Encoders Production by Input Voltage (2027-2032) & (K Units)

Table 57. World Non-Contact Capacitive Encoders Production Value by Input Voltage (2021-2026) & (USD Million)

Table 58. World Non-Contact Capacitive Encoders Production Value by Input Voltage (2027-2032) & (USD Million)

Table 59. World Non-Contact Capacitive Encoders Average Price by Input Voltage (2021-2026) & (US\$/Unit)

Table 60. World Non-Contact Capacitive Encoders Average Price by Input Voltage (2027-2032) & (US\$/Unit)

Table 61. World Non-Contact Capacitive Encoders Production Value by Orientation, (USD Million), 2021 & 2025 & 2032

Table 62. World Non-Contact Capacitive Encoders Production by Orientation (2021-2026) & (K Units)

Table 63. World Non-Contact Capacitive Encoders Production by Orientation (2027-2032) & (K Units)

Table 64. World Non-Contact Capacitive Encoders Production Value by Orientation (2021-2026) & (USD Million)

Table 65. World Non-Contact Capacitive Encoders Production Value by Orientation (2027-2032) & (USD Million)

Table 66. World Non-Contact Capacitive Encoders Average Price by Orientation (2021-2026) & (US\$/Unit)

Table 67. World Non-Contact Capacitive Encoders Average Price by Orientation (2027-2032) & (US\$/Unit)

Table 68. World Non-Contact Capacitive Encoders Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Non-Contact Capacitive Encoders Production by Application (2021-2026) & (K Units)

Table 70. World Non-Contact Capacitive Encoders Production by Application (2027-2032) & (K Units)

Table 71. World Non-Contact Capacitive Encoders Production Value by Application (2021-2026) & (USD Million)

Table 72. World Non-Contact Capacitive Encoders Production Value by Application (2027-2032) & (USD Million)

Table 73. World Non-Contact Capacitive Encoders Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Non-Contact Capacitive Encoders Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Kappasense Basic Information, Manufacturing Base and Competitors

Table 76. Kappasense Major Business

Table 77. Kappasense Non-Contact Capacitive Encoders Product and Services

Table 78. Kappasense Non-Contact Capacitive Encoders Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Kappasense Recent Developments/Updates

Table 80. Kappasense Competitive Strengths & Weaknesses

Table 81. Same Sky Basic Information, Manufacturing Base and Competitors

Table 82. Same Sky Major Business

Table 83. Same Sky Non-Contact Capacitive Encoders Product and Services

Table 84. Same Sky Non-Contact Capacitive Encoders Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Same Sky Recent Developments/Updates

Table 86. Same Sky Competitive Strengths & Weaknesses

Table 87. Netzer Basic Information, Manufacturing Base and Competitors

Table 88. Netzer Major Business

Table 89. Netzer Non-Contact Capacitive Encoders Product and Services

Table 90. Netzer Non-Contact Capacitive Encoders Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Netzer Recent Developments/Updates

Table 92. Netzer Competitive Strengths & Weaknesses

Table 93. TR Electronic Basic Information, Manufacturing Base and Competitors

Table 94. TR Electronic Major Business

Table 95. TR Electronic Non-Contact Capacitive Encoders Product and Services

Table 96. TR Electronic Non-Contact Capacitive Encoders Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. TR Electronic Recent Developments/Updates

Table 98. TR Electronic Competitive Strengths & Weaknesses

Table 99. Heidenhain Basic Information, Manufacturing Base and Competitors

Table 100. Heidenhain Major Business

Table 101. Heidenhain Non-Contact Capacitive Encoders Product and Services

Table 102. Heidenhain Non-Contact Capacitive Encoders Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Heidenhain Recent Developments/Updates

Table 104. Heidenhain Competitive Strengths & Weaknesses

Table 105. PoLabs Basic Information, Manufacturing Base and Competitors

Table 106. PoLabs Major Business

Table 107. PoLabs Non-Contact Capacitive Encoders Product and Services

Table 108. PoLabs Non-Contact Capacitive Encoders Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. PoLabs Recent Developments/Updates

Table 110. PoLabs Competitive Strengths & Weaknesses

Table 111. Posital-Fraba Basic Information, Manufacturing Base and Competitors

Table 112. Posital-Fraba Major Business

Table 113. Posital-Fraba Non-Contact Capacitive Encoders Product and Services

Table 114. Posital-Fraba Non-Contact Capacitive Encoders Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Posital-Fraba Recent Developments/Updates

Table 116. Posital-Fraba Competitive Strengths & Weaknesses

Table 117. Hengstler Basic Information, Manufacturing Base and Competitors

Table 118. Hengstler Major Business

Table 119. Hengstler Non-Contact Capacitive Encoders Product and Services

Table 120. Hengstler Non-Contact Capacitive Encoders Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Hengstler Recent Developments/Updates

Table 122. Hengstler Competitive Strengths & Weaknesses

Table 123. Bourns Basic Information, Manufacturing Base and Competitors

Table 124. Bourns Major Business

Table 125. Bourns Non-Contact Capacitive Encoders Product and Services

Table 126. Bourns Non-Contact Capacitive Encoders Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Bourns Recent Developments/Updates

Table 128. Bourns Competitive Strengths & Weaknesses

Table 129. SICK Basic Information, Manufacturing Base and Competitors

Table 130. SICK Major Business

Table 131. SICK Non-Contact Capacitive Encoders Product and Services

Table 132. SICK Non-Contact Capacitive Encoders Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. SICK Recent Developments/Updates

Table 134. SICK Competitive Strengths & Weaknesses

Table 135. Georg Schlegel Basic Information, Manufacturing Base and Competitors

Table 136. Georg Schlegel Major Business

Table 137. Georg Schlegel Non-Contact Capacitive Encoders Product and Services

Table 138. Georg Schlegel Non-Contact Capacitive Encoders Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Georg Schlegel Recent Developments/Updates

Table 140. Georg Schlegel Competitive Strengths & Weaknesses

Table 141. Micro-Epsilon Basic Information, Manufacturing Base and Competitors

Table 142. Micro-Epsilon Major Business

Table 143. Micro-Epsilon Non-Contact Capacitive Encoders Product and Services

Table 144. Micro-Epsilon Non-Contact Capacitive Encoders Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Micro-Epsilon Recent Developments/Updates

Table 146. Micro-Epsilon Competitive Strengths & Weaknesses

Table 147. Global Key Players of Non-Contact Capacitive Encoders Upstream (Raw Materials)

Table 148. Global Non-Contact Capacitive Encoders Typical Customers

Table 149. Non-Contact Capacitive Encoders Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Non-Contact Capacitive Encoders Picture

Figure 2. World Non-Contact Capacitive Encoders Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Non-Contact Capacitive Encoders Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Non-Contact Capacitive Encoders Production (2021-2032) & (K Units)

Figure 5. World Non-Contact Capacitive Encoders Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Non-Contact Capacitive Encoders Production Value Market Share by Region (2021-2032)

Figure 7. World Non-Contact Capacitive Encoders Production Market Share by Region (2021-2032)

Figure 8. North America Non-Contact Capacitive Encoders Production (2021-2032) & (K Units)

Figure 9. Europe Non-Contact Capacitive Encoders Production (2021-2032) & (K Units)

Figure 10. China Non-Contact Capacitive Encoders Production (2021-2032) & (K Units)

Figure 11. Japan Non-Contact Capacitive Encoders Production (2021-2032) & (K Units)

Figure 12. South Korea Non-Contact Capacitive Encoders Production (2021-2032) & (K Units)

Figure 13. Southeast Asia Non-Contact Capacitive Encoders Production (2021-2032) & (K Units)

Figure 14. China Taiwan Non-Contact Capacitive Encoders Production (2021-2032) & (K Units)

Figure 15. Non-Contact Capacitive Encoders Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World Non-Contact Capacitive Encoders Consumption (2021-2032) & (K Units)

Figure 18. World Non-Contact Capacitive Encoders Consumption Market Share by Region (2021-2032)

Figure 19. United States Non-Contact Capacitive Encoders Consumption (2021-2032) & (K Units)

Figure 20. China Non-Contact Capacitive Encoders Consumption (2021-2032) & (K Units)

Figure 21. Europe Non-Contact Capacitive Encoders Consumption (2021-2032) & (K Units)

Figure 22. Japan Non-Contact Capacitive Encoders Consumption (2021-2032) & (K Units)

Figure 23. South Korea Non-Contact Capacitive Encoders Consumption (2021-2032) & (K Units)

Figure 24. ASEAN Non-Contact Capacitive Encoders Consumption (2021-2032) & (K Units)

Figure 25. India Non-Contact Capacitive Encoders Consumption (2021-2032) & (K Units)

Figure 26. Producer Shipments of Non-Contact Capacitive Encoders by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for Non-Contact Capacitive Encoders Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for Non-Contact Capacitive Encoders Markets in 2025

Figure 29. United States VS China: Non-Contact Capacitive Encoders Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Non-Contact Capacitive Encoders Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: Non-Contact Capacitive Encoders Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers Non-Contact Capacitive Encoders Production Market Share 2025

Figure 33. China Based Manufacturers Non-Contact Capacitive Encoders Production Market Share 2025

Figure 34. Rest of World Based Manufacturers Non-Contact Capacitive Encoders Production Market Share 2025

Figure 35. World Non-Contact Capacitive Encoders Production Value by Maximum Speed, (USD Million), 2021 & 2025 & 2032

Figure 36. World Non-Contact Capacitive Encoders Production Value Market Share by Maximum Speed in 2025

Figure 37. 7500 RPM

Figure 38. 8000 RPM

Figure 39. 10000 RPM

Figure 40. Others

Figure 41. World Non-Contact Capacitive Encoders Production Market Share by Maximum Speed (2021-2032)

Figure 42. World Non-Contact Capacitive Encoders Production Value Market Share by Maximum Speed (2021-2032)

Figure 43. World Non-Contact Capacitive Encoders Average Price by Maximum Speed

(2021-2032) & (US\$/Unit)

Figure 44. World Non-Contact Capacitive Encoders Production Value by Input Voltage, (USD Million), 2021 & 2025 & 2032

Figure 45. World Non-Contact Capacitive Encoders Production Value Market Share by Input Voltage in 2025

Figure 46. 3.6V

Figure 47. 4.5V

Figure 48. Others

Figure 49. World Non-Contact Capacitive Encoders Production Market Share by Input Voltage (2021-2032)

Figure 50. World Non-Contact Capacitive Encoders Production Value Market Share by Input Voltage (2021-2032)

Figure 51. World Non-Contact Capacitive Encoders Average Price by Input Voltage (2021-2032) & (US\$/Unit)

Figure 52. World Non-Contact Capacitive Encoders Production Value by Orientation, (USD Million), 2021 & 2025 & 2032

Figure 53. World Non-Contact Capacitive Encoders Production Value Market Share by Orientation in 2025

Figure 54. Axial

Figure 55. Radial

Figure 56. World Non-Contact Capacitive Encoders Production Market Share by Orientation (2021-2032)

Figure 57. World Non-Contact Capacitive Encoders Production Value Market Share by Orientation (2021-2032)

Figure 58. World Non-Contact Capacitive Encoders Average Price by Orientation (2021-2032) & (US\$/Unit)

Figure 59. World Non-Contact Capacitive Encoders Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 60. World Non-Contact Capacitive Encoders Production Value Market Share by Application in 2025

Figure 61. Industrial Automation

Figure 62. Aerospace

Figure 63. Medical

Figure 64. Others

Figure 65. World Non-Contact Capacitive Encoders Production Market Share by Application (2021-2032)

Figure 66. World Non-Contact Capacitive Encoders Production Value Market Share by Application (2021-2032)

Figure 67. World Non-Contact Capacitive Encoders Average Price by Application

(2021-2032) & (US\$/Unit)

Figure 68. Non-Contact Capacitive Encoders Industry Chain

Figure 69. Non-Contact Capacitive Encoders Procurement Model

Figure 70. Non-Contact Capacitive Encoders Sales Model

Figure 71. Non-Contact Capacitive Encoders Sales Channels, Direct Sales, and Distribution

Figure 72. Methodology

Figure 73. Research Process and Data Source

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