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Global Needle-Type Contact Sensor Market Growth 2025-2031

https://marketpublishers.com/r/G114C4249BF0EN.html
Date: May 2025
Pages: 94
Price: US$ 3,660.00 (Single User License)
ID: G114C4249BF0EN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

The global Automotive Active Grille Shutters market size is predicted to grow from US$ 1755 million in 2025 to US$ 2722 million in 2031; it is expected to grow at a CAGR of 7.6% from 2025 to 2031.

Automotive active grille shutters are a system of automatically controlled louvers or vanes positioned in front of a vehicle's radiator. These shutters open and close to regulate airflow to the engine compartment. When cooling is needed, the shutters open to allow air to flow through the radiator. When cooling is not required, such as during warm-up or highway cruising, the shutters close to improve aerodynamics, reducing drag and improving fuel efficiency.

The trend in active grille shutter technology is focused on improving performance, expanding functionality, and reducing complexity. Key trends include: enhanced control algorithms that consider a wider range of parameters, such as engine temperature, vehicle speed, ambient temperature, and even driving style, for more precise airflow management; improved actuator designs for faster opening and closing times, as well as increased durability and reliability in harsh environments; integration with other vehicle systems, such as the climate control system and engine management system, for optimized overall vehicle performance; the use of lighter-weight materials, such as plastics and composites, to reduce weight and improve fuel efficiency; and the development of more compact designs to allow for greater styling flexibility. Furthermore, there's a growing emphasis on predictive control strategies that anticipate cooling needs based on navigation data or traffic conditions, enabling proactive shutter adjustments. The trend is also towards more sophisticated diagnostic capabilities,

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allowing for early detection of potential issues. This aligns with the automotive industry's focus on improving fuel economy, reducing emissions, and enhancing vehicle performance and aerodynamics.

The Automotive Active Grille Shutters (AGS) market is part of the larger trend toward increasing vehicle fuel efficiency, aerodynamics, and reducing emissions. Active grille shutters are a key component in improving the overall performance and efficiency of modern vehicles by optimizing airflow to the engine and cooling systems. These shutters adjust automatically depending on driving conditions, contributing to better fuel economy and reduced environmental impact. As the automotive industry focuses on innovation, fuel efficiency, and emission standards, the active grille shutters market is witnessing significant growth.

Fuel efficiency and CO2 emission reduction are among the top priorities for automakers due to stringent government regulations, especially in regions like the European Union, North America, and China.

Active grille shutters improve aerodynamics by controlling airflow to the engine and cooling systems, reducing drag and fuel consumption, particularly at high speeds. By optimizing airflow, they enhance vehicle performance and contribute to meeting emission reduction standards.

Regulatory frameworks such as Euro 6, CAFE (Corporate Average Fuel Economy) standards, and fuel economy regulations in various countries continue to encourage the adoption of AGS to improve vehicle efficiency.

LP Information, Inc. (LPI) ' newest research report, the “Automotive Active Grille Shutters Industry Forecast” looks at past sales and reviews total world Automotive Active Grille Shutters sales in 2024, providing a comprehensive analysis by region and market sector of projected Automotive Active Grille Shutters sales for 2025 through 2031. With Automotive Active Grille Shutters sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Automotive Active Grille Shutters industry.

This Insight Report provides a comprehensive analysis of the global Automotive Active Grille Shutters 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 Automotive Active Grille Shutters portfolios and capabilities, market entry strategies,

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market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automotive Active Grille Shutters market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Active Grille Shutters and breaks down the forecast by Type, 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 Automotive Active Grille Shutters.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive Active Grille Shutters market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Visible Type

Non-Visible Type

Segmentation by Application:

Commercial Vehicle

Passenger Vehicle

This report also splits the market by region:

Americas

United States

Canada

Mexico

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- 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

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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.

Rochling

Valeo

Magna International

Wirthwein

SRG Global

Batz

HBPO GmbH

Techniplas

Brose Fahrzeugteile

STARLITE

Mirror Controls International

Huatong Automotive Molding

Tong Yang Group

Sonceboz

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Active Grille Shutters market?

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What factors are driving Automotive Active Grille Shutters market growth, globally and by region?

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

How do Automotive Active Grille Shutters market opportunities vary by end market size?

How does Automotive Active Grille Shutters break out by Type, by Application?

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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 Needle-Type Contact Sensor Annual Sales 2020-2031
  2.1.2 World Current & Future Analysis for Needle-Type Contact Sensor by Geographic Region, 2020, 2024 & 2031
  2.1.3 World Current & Future Analysis for Needle-Type Contact Sensor by Country/Region, 2020, 2024 & 2031
2.2 Needle-Type Contact Sensor Segment by Type
  2.2.1 NPN Normally Open Type
  2.2.2 NPN Normally Closed Type
2.3 Needle-Type Contact Sensor Sales by Type
  2.3.1 Global Needle-Type Contact Sensor Sales Market Share by Type (2020-2025)
  2.3.2 Global Needle-Type Contact Sensor Revenue and Market Share by Type (2020-2025)
  2.3.3 Global Needle-Type Contact Sensor Sale Price by Type (2020-2025)
2.4 Needle-Type Contact Sensor Segment by Application
  2.4.1 Precision Measurement
  2.4.2 Electronic Manufacturing
  2.4.3 Automated Testing
  2.4.4 Robotics
  2.4.5 Surface Profile Detection
2.5 Needle-Type Contact Sensor Sales by Application
  2.5.1 Global Needle-Type Contact Sensor Sale Market Share by Application (2020-2025)
  2.5.2 Global Needle-Type Contact Sensor Revenue and Market Share by Application

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info@marketpublishers.com

(2020-2025)
2.5.3 Global Needle-Type Contact Sensor Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global Needle-Type Contact Sensor Breakdown Data by Company
3.1.1 Global Needle-Type Contact Sensor Annual Sales by Company (2020-2025)
3.1.2 Global Needle-Type Contact Sensor Sales Market Share by Company (2020-2025)
3.2 Global Needle-Type Contact Sensor Annual Revenue by Company (2020-2025)
3.2.1 Global Needle-Type Contact Sensor Revenue by Company (2020-2025)
3.2.2 Global Needle-Type Contact Sensor Revenue Market Share by Company (2020-2025)
3.3 Global Needle-Type Contact Sensor Sale Price by Company
3.4 Key Manufacturers Needle-Type Contact Sensor Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Needle-Type Contact Sensor Product Location Distribution
3.4.2 Players Needle-Type Contact Sensor Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR NEEDLE-TYPE CONTACT SENSOR BY GEOGRAPHIC REGION

4.1 World Historic Needle-Type Contact Sensor Market Size by Geographic Region (2020-2025)
4.1.1 Global Needle-Type Contact Sensor Annual Sales by Geographic Region (2020-2025)
4.1.2 Global Needle-Type Contact Sensor Annual Revenue by Geographic Region (2020-2025)
4.2 World Historic Needle-Type Contact Sensor Market Size by Country/Region (2020-2025)
4.2.1 Global Needle-Type Contact Sensor Annual Sales by Country/Region (2020-2025)
4.2.2 Global Needle-Type Contact Sensor Annual Revenue by Country/Region (2020-2025)

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info@marketpublishers.com

4.3 Americas Needle-Type Contact Sensor Sales Growth
4.4 APAC Needle-Type Contact Sensor Sales Growth
4.5 Europe Needle-Type Contact Sensor Sales Growth
4.6 Middle East & Africa Needle-Type Contact Sensor Sales Growth

5 AMERICAS

5.1 Americas Needle-Type Contact Sensor Sales by Country
  5.1.1 Americas Needle-Type Contact Sensor Sales by Country (2020-2025)
  5.1.2 Americas Needle-Type Contact Sensor Revenue by Country (2020-2025)
5.2 Americas Needle-Type Contact Sensor Sales by Type (2020-2025)
5.3 Americas Needle-Type Contact Sensor Sales by Application (2020-2025)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Needle-Type Contact Sensor Sales by Region
  6.1.1 APAC Needle-Type Contact Sensor Sales by Region (2020-2025)
  6.1.2 APAC Needle-Type Contact Sensor Revenue by Region (2020-2025)
6.2 APAC Needle-Type Contact Sensor Sales by Type (2020-2025)
6.3 APAC Needle-Type Contact Sensor Sales by Application (2020-2025)
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 Needle-Type Contact Sensor by Country
  7.1.1 Europe Needle-Type Contact Sensor Sales by Country (2020-2025)
  7.1.2 Europe Needle-Type Contact Sensor Revenue by Country (2020-2025)
7.2 Europe Needle-Type Contact Sensor Sales by Type (2020-2025)
7.3 Europe Needle-Type Contact Sensor Sales by Application (2020-2025)

+357 96 030922
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7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Needle-Type Contact Sensor by Country
  8.1.1 Middle East & Africa Needle-Type Contact Sensor Sales by Country (2020-2025)
  8.1.2 Middle East & Africa Needle-Type Contact Sensor Revenue by Country (2020-2025)
8.2 Middle East & Africa Needle-Type Contact Sensor Sales by Type (2020-2025)
8.3 Middle East & Africa Needle-Type Contact Sensor Sales by Application (2020-2025)
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 Needle-Type Contact Sensor
10.3 Manufacturing Process Analysis of Needle-Type Contact Sensor
10.4 Industry Chain Structure of Needle-Type Contact Sensor

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 Needle-Type Contact Sensor Distributors

+357 96 030922
info@marketpublishers.com

11.3 Needle-Type Contact Sensor Customer

12 WORLD FORECAST REVIEW FOR NEEDLE-TYPE CONTACT SENSOR BY GEOGRAPHIC REGION

12.1 Global Needle-Type Contact Sensor Market Size Forecast by Region
  12.1.1 Global Needle-Type Contact Sensor Forecast by Region (2026-2031)
  12.1.2 Global Needle-Type Contact Sensor Annual Revenue Forecast by Region (2026-2031)
12.2 Americas Forecast by Country (2026-2031)
12.3 APAC Forecast by Region (2026-2031)
12.4 Europe Forecast by Country (2026-2031)
12.5 Middle East & Africa Forecast by Country (2026-2031)
12.6 Global Needle-Type Contact Sensor Forecast by Type (2026-2031)
12.7 Global Needle-Type Contact Sensor Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 Acmeto Technology Group
  13.1.1 Acmeto Technology Group Company Information
  13.1.2 Acmeto Technology Group Needle-Type Contact Sensor Product Portfolios and Specifications
  13.1.3 Acmeto Technology Group Needle-Type Contact Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
  13.1.4 Acmeto Technology Group Main Business Overview
  13.1.5 Acmeto Technology Group Latest Developments
13.2 Panasonics
  13.2.1 Panasonics Company Information
  13.2.2 Panasonics Needle-Type Contact Sensor Product Portfolios and Specifications
  13.2.3 Panasonics Needle-Type Contact Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
  13.2.4 Panasonics Main Business Overview
  13.2.5 Panasonics Latest Developments
13.3 Keyence
  13.3.1 Keyence Company Information
  13.3.2 Keyence Needle-Type Contact Sensor Product Portfolios and Specifications
  13.3.3 Keyence Needle-Type Contact Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
  13.3.4 Keyence Main Business Overview

+357 96 030922
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13.3.5 Keyence Latest Developments
13.4 Sugawara Laboratories
13.4.1 Sugawara Laboratories Company Information
13.4.2 Sugawara Laboratories Needle-Type Contact Sensor Product Portfolios and Specifications
13.4.3 Sugawara Laboratories Needle-Type Contact Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
13.4.4 Sugawara Laboratories Main Business Overview
13.4.5 Sugawara Laboratories Latest Developments
13.5 Unipulse
13.5.1 Unipulse Company Information
13.5.2 Unipulse Needle-Type Contact Sensor Product Portfolios and Specifications
13.5.3 Unipulse Needle-Type Contact Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
13.5.4 Unipulse Main Business Overview
13.5.5 Unipulse Latest Developments
13.6 Janpos
13.6.1 Janpos Company Information
13.6.2 Janpos Needle-Type Contact Sensor Product Portfolios and Specifications
13.6.3 Janpos Needle-Type Contact Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
13.6.4 Janpos Main Business Overview
13.6.5 Janpos Latest Developments
13.7 Metrol
13.7.1 Metrol Company Information
13.7.2 Metrol Needle-Type Contact Sensor Product Portfolios and Specifications
13.7.3 Metrol Needle-Type Contact Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
13.7.4 Metrol Main Business Overview
13.7.5 Metrol Latest Developments
13.8 Sugiden
13.8.1 Sugiden Company Information
13.8.2 Sugiden Needle-Type Contact Sensor Product Portfolios and Specifications
13.8.3 Sugiden Needle-Type Contact Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
13.8.4 Sugiden Main Business Overview
13.8.5 Sugiden Latest Developments
13.9 CCP Contact Probes
13.9.1 CCP Contact Probes Company Information

+357 96 030922
info@marketpublishers.com

13.9.2 CCP Contact Probes Needle-Type Contact Sensor Product Portfolios and Specifications
13.9.3 CCP Contact Probes Needle-Type Contact Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
13.9.4 CCP Contact Probes Main Business Overview
13.9.5 CCP Contact Probes Latest Developments
13.10 Amphenol
13.10.1 Amphenol Company Information
13.10.2 Amphenol Needle-Type Contact Sensor Product Portfolios and Specifications
13.10.3 Amphenol Needle-Type Contact Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
13.10.4 Amphenol Main Business Overview
13.10.5 Amphenol Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Needle-Type Contact Sensor Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & ($ millions)
Table 2. Needle-Type Contact Sensor Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & ($ millions)
Table 3. Major Players of NPN Normally Open Type
Table 4. Major Players of NPN Normally Closed Type
Table 5. Global Needle-Type Contact Sensor Sales by Type (2020-2025) & (K Units)
Table 6. Global Needle-Type Contact Sensor Sales Market Share by Type (2020-2025)
Table 7. Global Needle-Type Contact Sensor Revenue by Type (2020-2025) & ($ million)
Table 8. Global Needle-Type Contact Sensor Revenue Market Share by Type (2020-2025)
Table 9. Global Needle-Type Contact Sensor Sale Price by Type (2020-2025) & (US$/Unit)
Table 10. Global Needle-Type Contact Sensor Sale by Application (2020-2025) & (K Units)
Table 11. Global Needle-Type Contact Sensor Sale Market Share by Application (2020-2025)
Table 12. Global Needle-Type Contact Sensor Revenue by Application (2020-2025) & ($ million)
Table 13. Global Needle-Type Contact Sensor Revenue Market Share by Application (2020-2025)
Table 14. Global Needle-Type Contact Sensor Sale Price by Application (2020-2025) & (US$/Unit)
Table 15. Global Needle-Type Contact Sensor Sales by Company (2020-2025) & (K Units)
Table 16. Global Needle-Type Contact Sensor Sales Market Share by Company (2020-2025)
Table 17. Global Needle-Type Contact Sensor Revenue by Company (2020-2025) & ($ millions)
Table 18. Global Needle-Type Contact Sensor Revenue Market Share by Company (2020-2025)
Table 19. Global Needle-Type Contact Sensor Sale Price by Company (2020-2025) & (US$/Unit)
Table 20. Key Manufacturers Needle-Type Contact Sensor Producing Area Distribution

+357 96 030922
info@marketpublishers.com

and Sales Area
Table 21. Players Needle-Type Contact Sensor Products Offered
Table 22. Needle-Type Contact Sensor Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
Table 23. New Products and Potential Entrants
Table 24. Market M&A Activity & Strategy
Table 25. Global Needle-Type Contact Sensor Sales by Geographic Region (2020-2025) & (K Units)
Table 26. Global Needle-Type Contact Sensor Sales Market Share Geographic Region (2020-2025)
Table 27. Global Needle-Type Contact Sensor Revenue by Geographic Region (2020-2025) & ($ millions)
Table 28. Global Needle-Type Contact Sensor Revenue Market Share by Geographic Region (2020-2025)
Table 29. Global Needle-Type Contact Sensor Sales by Country/Region (2020-2025) & (K Units)
Table 30. Global Needle-Type Contact Sensor Sales Market Share by Country/Region (2020-2025)
Table 31. Global Needle-Type Contact Sensor Revenue by Country/Region (2020-2025) & ($ millions)
Table 32. Global Needle-Type Contact Sensor Revenue Market Share by Country/Region (2020-2025)
Table 33. Americas Needle-Type Contact Sensor Sales by Country (2020-2025) & (K Units)
Table 34. Americas Needle-Type Contact Sensor Sales Market Share by Country (2020-2025)
Table 35. Americas Needle-Type Contact Sensor Revenue by Country (2020-2025) & ($ millions)
Table 36. Americas Needle-Type Contact Sensor Sales by Type (2020-2025) & (K Units)
Table 37. Americas Needle-Type Contact Sensor Sales by Application (2020-2025) & (K Units)
Table 38. APAC Needle-Type Contact Sensor Sales by Region (2020-2025) & (K Units)
Table 39. APAC Needle-Type Contact Sensor Sales Market Share by Region (2020-2025)
Table 40. APAC Needle-Type Contact Sensor Revenue by Region (2020-2025) & ($ millions)
Table 41. APAC Needle-Type Contact Sensor Sales by Type (2020-2025) & (K Units)
Table 42. APAC Needle-Type Contact Sensor Sales by Application (2020-2025) & (K

+357 96 030922
info@marketpublishers.com

Units)
Table 43. Europe Needle-Type Contact Sensor Sales by Country (2020-2025) & (K Units)
Table 44. Europe Needle-Type Contact Sensor Revenue by Country (2020-2025) & ($ millions)
Table 45. Europe Needle-Type Contact Sensor Sales by Type (2020-2025) & (K Units)
Table 46. Europe Needle-Type Contact Sensor Sales by Application (2020-2025) & (K Units)
Table 47. Middle East & Africa Needle-Type Contact Sensor Sales by Country (2020-2025) & (K Units)
Table 48. Middle East & Africa Needle-Type Contact Sensor Revenue Market Share by Country (2020-2025)
Table 49. Middle East & Africa Needle-Type Contact Sensor Sales by Type (2020-2025) & (K Units)
Table 50. Middle East & Africa Needle-Type Contact Sensor Sales by Application (2020-2025) & (K Units)
Table 51. Key Market Drivers & Growth Opportunities of Needle-Type Contact Sensor
Table 52. Key Market Challenges & Risks of Needle-Type Contact Sensor
Table 53. Key Industry Trends of Needle-Type Contact Sensor
Table 54. Needle-Type Contact Sensor Raw Material
Table 55. Key Suppliers of Raw Materials
Table 56. Needle-Type Contact Sensor Distributors List
Table 57. Needle-Type Contact Sensor Customer List
Table 58. Global Needle-Type Contact Sensor Sales Forecast by Region (2026-2031) & (K Units)
Table 59. Global Needle-Type Contact Sensor Revenue Forecast by Region (2026-2031) & ($ millions)
Table 60. Americas Needle-Type Contact Sensor Sales Forecast by Country (2026-2031) & (K Units)
Table 61. Americas Needle-Type Contact Sensor Annual Revenue Forecast by Country (2026-2031) & ($ millions)
Table 62. APAC Needle-Type Contact Sensor Sales Forecast by Region (2026-2031) & (K Units)
Table 63. APAC Needle-Type Contact Sensor Annual Revenue Forecast by Region (2026-2031) & ($ millions)
Table 64. Europe Needle-Type Contact Sensor Sales Forecast by Country (2026-2031) & (K Units)
Table 65. Europe Needle-Type Contact Sensor Revenue Forecast by Country (2026-2031) & ($ millions)

+357 96 030922
info@marketpublishers.com

Table 66. Middle East & Africa Needle-Type Contact Sensor Sales Forecast by Country (2026-2031) & (K Units)
Table 67. Middle East & Africa Needle-Type Contact Sensor Revenue Forecast by Country (2026-2031) & ($ millions)
Table 68. Global Needle-Type Contact Sensor Sales Forecast by Type (2026-2031) & (K Units)
Table 69. Global Needle-Type Contact Sensor Revenue Forecast by Type (2026-2031) & ($ millions)
Table 70. Global Needle-Type Contact Sensor Sales Forecast by Application (2026-2031) & (K Units)
Table 71. Global Needle-Type Contact Sensor Revenue Forecast by Application (2026-2031) & ($ millions)
Table 72. Acmeto Technology Group Basic Information, Needle-Type Contact Sensor Manufacturing Base, Sales Area and Its Competitors
Table 73. Acmeto Technology Group Needle-Type Contact Sensor Product Portfolios and Specifications
Table 74. Acmeto Technology Group Needle-Type Contact Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 75. Acmeto Technology Group Main Business
Table 76. Acmeto Technology Group Latest Developments
Table 77. Panasonics Basic Information, Needle-Type Contact Sensor Manufacturing Base, Sales Area and Its Competitors
Table 78. Panasonics Needle-Type Contact Sensor Product Portfolios and Specifications
Table 79. Panasonics Needle-Type Contact Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 80. Panasonics Main Business
Table 81. Panasonics Latest Developments
Table 82. Keyence Basic Information, Needle-Type Contact Sensor Manufacturing Base, Sales Area and Its Competitors
Table 83. Keyence Needle-Type Contact Sensor Product Portfolios and Specifications
Table 84. Keyence Needle-Type Contact Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 85. Keyence Main Business
Table 86. Keyence Latest Developments
Table 87. Sugawara Laboratories Basic Information, Needle-Type Contact Sensor Manufacturing Base, Sales Area and Its Competitors
Table 88. Sugawara Laboratories Needle-Type Contact Sensor Product Portfolios and Specifications

+357 96 030922
info@marketpublishers.com

Table 89. Sugawara Laboratories Needle-Type Contact Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 90. Sugawara Laboratories Main Business
Table 91. Sugawara Laboratories Latest Developments
Table 92. Unipulse Basic Information, Needle-Type Contact Sensor Manufacturing Base, Sales Area and Its Competitors
Table 93. Unipulse Needle-Type Contact Sensor Product Portfolios and Specifications
Table 94. Unipulse Needle-Type Contact Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 95. Unipulse Main Business
Table 96. Unipulse Latest Developments
Table 97. Janpos Basic Information, Needle-Type Contact Sensor Manufacturing Base, Sales Area and Its Competitors
Table 98. Janpos Needle-Type Contact Sensor Product Portfolios and Specifications
Table 99. Janpos Needle-Type Contact Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 100. Janpos Main Business
Table 101. Janpos Latest Developments
Table 102. Metrol Basic Information, Needle-Type Contact Sensor Manufacturing Base, Sales Area and Its Competitors
Table 103. Metrol Needle-Type Contact Sensor Product Portfolios and Specifications
Table 104. Metrol Needle-Type Contact Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 105. Metrol Main Business
Table 106. Metrol Latest Developments
Table 107. Sugiden Basic Information, Needle-Type Contact Sensor Manufacturing Base, Sales Area and Its Competitors
Table 108. Sugiden Needle-Type Contact Sensor Product Portfolios and Specifications
Table 109. Sugiden Needle-Type Contact Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 110. Sugiden Main Business
Table 111. Sugiden Latest Developments
Table 112. CCP Contact Probes Basic Information, Needle-Type Contact Sensor Manufacturing Base, Sales Area and Its Competitors
Table 113. CCP Contact Probes Needle-Type Contact Sensor Product Portfolios and Specifications
Table 114. CCP Contact Probes Needle-Type Contact Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 115. CCP Contact Probes Main Business

+357 96 030922
info@marketpublishers.com

Table 116. CCP Contact Probes Latest Developments
Table 117. Amphenol Basic Information, Needle-Type Contact Sensor Manufacturing Base, Sales Area and Its Competitors
Table 118. Amphenol Needle-Type Contact Sensor Product Portfolios and Specifications
Table 119. Amphenol Needle-Type Contact Sensor Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2020-2025)
Table 120. Amphenol Main Business
Table 121. Amphenol Latest Developments

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

Figure 1. Picture of Needle-Type Contact Sensor
Figure 2. Needle-Type Contact Sensor Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Needle-Type Contact Sensor Sales Growth Rate 2020-2031 (K Units)
Figure 7. Global Needle-Type Contact Sensor Revenue Growth Rate 2020-2031 ($ millions)
Figure 8. Needle-Type Contact Sensor Sales by Geographic Region (2020, 2024 & 2031) & ($ millions)
Figure 9. Needle-Type Contact Sensor Sales Market Share by Country/Region (2024)
Figure 10. Needle-Type Contact Sensor Sales Market Share by Country/Region (2020, 2024 & 2031)
Figure 11. Product Picture of NPN Normally Open Type
Figure 12. Product Picture of NPN Normally Closed Type
Figure 13. Global Needle-Type Contact Sensor Sales Market Share by Type in 2025
Figure 14. Global Needle-Type Contact Sensor Revenue Market Share by Type (2020-2025)
Figure 15. Needle-Type Contact Sensor Consumed in Precision Measurement
Figure 16. Global Needle-Type Contact Sensor Market: Precision Measurement (2020-2025) & (K Units)
Figure 17. Needle-Type Contact Sensor Consumed in Electronic Manufacturing
Figure 18. Global Needle-Type Contact Sensor Market: Electronic Manufacturing (2020-2025) & (K Units)
Figure 19. Needle-Type Contact Sensor Consumed in Automated Testing
Figure 20. Global Needle-Type Contact Sensor Market: Automated Testing (2020-2025) & (K Units)
Figure 21. Needle-Type Contact Sensor Consumed in Robotics
Figure 22. Global Needle-Type Contact Sensor Market: Robotics (2020-2025) & (K Units)
Figure 23. Needle-Type Contact Sensor Consumed in Surface Profile Detection
Figure 24. Global Needle-Type Contact Sensor Market: Surface Profile Detection (2020-2025) & (K Units)
Figure 25. Global Needle-Type Contact Sensor Sale Market Share by Application (2024)

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Figure 26. Global Needle-Type Contact Sensor Revenue Market Share by Application in 2025
Figure 27. Needle-Type Contact Sensor Sales by Company in 2025 (K Units)
Figure 28. Global Needle-Type Contact Sensor Sales Market Share by Company in 2025
Figure 29. Needle-Type Contact Sensor Revenue by Company in 2025 ($ millions)
Figure 30. Global Needle-Type Contact Sensor Revenue Market Share by Company in 2025
Figure 31. Global Needle-Type Contact Sensor Sales Market Share by Geographic Region (2020-2025)
Figure 32. Global Needle-Type Contact Sensor Revenue Market Share by Geographic Region in 2025
Figure 33. Americas Needle-Type Contact Sensor Sales 2020-2025 (K Units)
Figure 34. Americas Needle-Type Contact Sensor Revenue 2020-2025 ($ millions)
Figure 35. APAC Needle-Type Contact Sensor Sales 2020-2025 (K Units)
Figure 36. APAC Needle-Type Contact Sensor Revenue 2020-2025 ($ millions)
Figure 37. Europe Needle-Type Contact Sensor Sales 2020-2025 (K Units)
Figure 38. Europe Needle-Type Contact Sensor Revenue 2020-2025 ($ millions)
Figure 39. Middle East & Africa Needle-Type Contact Sensor Sales 2020-2025 (K Units)
Figure 40. Middle East & Africa Needle-Type Contact Sensor Revenue 2020-2025 ($ millions)
Figure 41. Americas Needle-Type Contact Sensor Sales Market Share by Country in 2025
Figure 42. Americas Needle-Type Contact Sensor Revenue Market Share by Country (2020-2025)
Figure 43. Americas Needle-Type Contact Sensor Sales Market Share by Type (2020-2025)
Figure 44. Americas Needle-Type Contact Sensor Sales Market Share by Application (2020-2025)
Figure 45. United States Needle-Type Contact Sensor Revenue Growth 2020-2025 ($ millions)
Figure 46. Canada Needle-Type Contact Sensor Revenue Growth 2020-2025 ($ millions)
Figure 47. Mexico Needle-Type Contact Sensor Revenue Growth 2020-2025 ($ millions)
Figure 48. Brazil Needle-Type Contact Sensor Revenue Growth 2020-2025 ($ millions)
Figure 49. APAC Needle-Type Contact Sensor Sales Market Share by Region in 2025
Figure 50. APAC Needle-Type Contact Sensor Revenue Market Share by Region (2020-2025)

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Figure 51. APAC Needle-Type Contact Sensor Sales Market Share by Type (2020-2025)
Figure 52. APAC Needle-Type Contact Sensor Sales Market Share by Application (2020-2025)
Figure 53. China Needle-Type Contact Sensor Revenue Growth 2020-2025 ($ millions)
Figure 54. Japan Needle-Type Contact Sensor Revenue Growth 2020-2025 ($ millions)
Figure 55. South Korea Needle-Type Contact Sensor Revenue Growth 2020-2025 ($ millions)
Figure 56. Southeast Asia Needle-Type Contact Sensor Revenue Growth 2020-2025 ($ millions)
Figure 57. India Needle-Type Contact Sensor Revenue Growth 2020-2025 ($ millions)
Figure 58. Australia Needle-Type Contact Sensor Revenue Growth 2020-2025 ($ millions)
Figure 59. China Taiwan Needle-Type Contact Sensor Revenue Growth 2020-2025 ($ millions)
Figure 60. Europe Needle-Type Contact Sensor Sales Market Share by Country in 2025
Figure 61. Europe Needle-Type Contact Sensor Revenue Market Share by Country (2020-2025)
Figure 62. Europe Needle-Type Contact Sensor Sales Market Share by Type (2020-2025)
Figure 63. Europe Needle-Type Contact Sensor Sales Market Share by Application (2020-2025)
Figure 64. Germany Needle-Type Contact Sensor Revenue Growth 2020-2025 ($ millions)
Figure 65. France Needle-Type Contact Sensor Revenue Growth 2020-2025 ($ millions)
Figure 66. UK Needle-Type Contact Sensor Revenue Growth 2020-2025 ($ millions)
Figure 67. Italy Needle-Type Contact Sensor Revenue Growth 2020-2025 ($ millions)
Figure 68. Russia Needle-Type Contact Sensor Revenue Growth 2020-2025 ($ millions)
Figure 69. Middle East & Africa Needle-Type Contact Sensor Sales Market Share by Country (2020-2025)
Figure 70. Middle East & Africa Needle-Type Contact Sensor Sales Market Share by Type (2020-2025)
Figure 71. Middle East & Africa Needle-Type Contact Sensor Sales Market Share by Application (2020-2025)
Figure 72. Egypt Needle-Type Contact Sensor Revenue Growth 2020-2025 ($ millions)
Figure 73. South Africa Needle-Type Contact Sensor Revenue Growth 2020-2025 ($ millions)
Figure 74. Israel Needle-Type Contact Sensor Revenue Growth 2020-2025 ($ millions)

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Figure 75. Turkey Needle-Type Contact Sensor Revenue Growth 2020-2025 ($ millions)
Figure 76. GCC Countries Needle-Type Contact Sensor Revenue Growth 2020-2025 ($ millions)
Figure 77. Manufacturing Cost Structure Analysis of Needle-Type Contact Sensor in 2025
Figure 78. Manufacturing Process Analysis of Needle-Type Contact Sensor
Figure 79. Industry Chain Structure of Needle-Type Contact Sensor
Figure 80. Channels of Distribution
Figure 81. Global Needle-Type Contact Sensor Sales Market Forecast by Region (2026-2031)
Figure 82. Global Needle-Type Contact Sensor Revenue Market Share Forecast by Region (2026-2031)
Figure 83. Global Needle-Type Contact Sensor Sales Market Share Forecast by Type (2026-2031)
Figure 84. Global Needle-Type Contact Sensor Revenue Market Share Forecast by Type (2026-2031)
Figure 85. Global Needle-Type Contact Sensor Sales Market Share Forecast by Application (2026-2031)
Figure 86. Global Needle-Type Contact Sensor Revenue Market Share Forecast by Application (2026-2031)

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