

Global Surface Mounted Knock Sensor Market Research Report 2026(Status and Outlook)

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Abstracts

The Surface Mounted Knock Sensor is a type of knock sensor designed to be mounted directly onto the surface of an engine or component. It detects abnormal vibrations or knocking caused by premature combustion within the engine cylinders. This sensor helps optimize engine performance, reduce emissions, and prevent engine damage.

The global Surface Mounted Knock Sensor market size was estimated at USD 2844.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 4.80% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Surface Mounted Knock Sensor market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Surface Mounted Knock Sensor market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Surface Mounted Knock Sensor market.

Global Surface Mounted Knock Sensor Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Continental
Delphi
Denso Corporation
Bosch
Inzi Controls
Hyundai Kefico
NGK Spark Plug
FACET
Walker Products
Tridon

Market Segmentation (by Type)

Magnetic Induction Knock Sensor
Piezoelectric Knock Sensor

Market Segmentation (by Application)

OEM

Aftermarket

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Surface Mounted Knock Sensor Market

Overview of the regional outlook of the Surface Mounted Knock Sensor Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Surface Mounted Knock Sensor Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Surface Mounted Knock Sensor, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Surface Mounted Knock Sensor

1.2 Key Market Segments

1.2.1 Surface Mounted Knock Sensor Segment by Type

1.2.2 Surface Mounted Knock Sensor Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 SURFACE MOUNTED KNOCK SENSOR MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Surface Mounted Knock Sensor Market Size (M USD) Estimates and Forecasts (2020-2035)

2.1.2 Global Surface Mounted Knock Sensor Sales Estimates and Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 SURFACE MOUNTED KNOCK SENSOR MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Surface Mounted Knock Sensor Product Life Cycle

3.3 Global Surface Mounted Knock Sensor Sales by Manufacturers (2020-2025)

3.4 Global Surface Mounted Knock Sensor Revenue Market Share by Manufacturers (2020-2025)

3.5 Surface Mounted Knock Sensor Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Surface Mounted Knock Sensor Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Surface Mounted Knock Sensor Market Competitive Situation and Trends

3.8.1 Surface Mounted Knock Sensor Market Concentration Rate

3.8.2 Global 5 and 10 Largest Surface Mounted Knock Sensor Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 SURFACE MOUNTED KNOCK SENSOR INDUSTRY CHAIN ANALYSIS

4.1 Surface Mounted Knock Sensor Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF SURFACE MOUNTED KNOCK SENSOR MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Surface Mounted Knock Sensor Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Surface Mounted Knock Sensor Market

5.7 ESG Ratings of Leading Companies

6 SURFACE MOUNTED KNOCK SENSOR MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Surface Mounted Knock Sensor Sales Market Share by Type (2020-2025)

6.3 Global Surface Mounted Knock Sensor Market Size by Type (2020-2025)

6.4 Global Surface Mounted Knock Sensor Price by Type (2020-2025)

7 SURFACE MOUNTED KNOCK SENSOR MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Surface Mounted Knock Sensor Market Sales by Application (2020-2025)

7.3 Global Surface Mounted Knock Sensor Market Size (M USD) by Application (2020-2025)

7.4 Global Surface Mounted Knock Sensor Sales Growth Rate by Application (2020-2025)

8 SURFACE MOUNTED KNOCK SENSOR MARKET SALES BY REGION

8.1 Global Surface Mounted Knock Sensor Sales by Region

8.1.1 Global Surface Mounted Knock Sensor Sales by Region

8.1.2 Global Surface Mounted Knock Sensor Sales Market Share by Region

8.2 Global Surface Mounted Knock Sensor Market Size by Region

8.2.1 Global Surface Mounted Knock Sensor Market Size by Region

8.2.2 Global Surface Mounted Knock Sensor Market Size by Region

8.3 North America

8.3.1 North America Surface Mounted Knock Sensor Sales by Country

8.3.2 North America Surface Mounted Knock Sensor Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Surface Mounted Knock Sensor Sales by Country

8.4.2 Europe Surface Mounted Knock Sensor Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Surface Mounted Knock Sensor Sales by Region

8.5.2 Asia Pacific Surface Mounted Knock Sensor Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

- 8.5.5 South Korea Market Overview
- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Surface Mounted Knock Sensor Sales by Country
 - 8.6.2 South America Surface Mounted Knock Sensor Market Size by Country
 - 8.6.3 Brazil Market Overview
 - 8.6.4 Argentina Market Overview
 - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Surface Mounted Knock Sensor Sales by Region
 - 8.7.2 Middle East and Africa Surface Mounted Knock Sensor Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 SURFACE MOUNTED KNOCK SENSOR MARKET PRODUCTION BY REGION

- 9.1 Global Production of Surface Mounted Knock Sensor by Region(2020-2025)
- 9.2 Global Surface Mounted Knock Sensor Revenue Market Share by Region (2020-2025)
- 9.3 Global Surface Mounted Knock Sensor Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Surface Mounted Knock Sensor Production
 - 9.4.1 North America Surface Mounted Knock Sensor Production Growth Rate (2020-2025)
 - 9.4.2 North America Surface Mounted Knock Sensor Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Surface Mounted Knock Sensor Production
 - 9.5.1 Europe Surface Mounted Knock Sensor Production Growth Rate (2020-2025)
 - 9.5.2 Europe Surface Mounted Knock Sensor Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Surface Mounted Knock Sensor Production (2020-2025)
 - 9.6.1 Japan Surface Mounted Knock Sensor Production Growth Rate (2020-2025)
 - 9.6.2 Japan Surface Mounted Knock Sensor Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Surface Mounted Knock Sensor Production (2020-2025)

- 9.7.1 China Surface Mounted Knock Sensor Production Growth Rate (2020-2025)
- 9.7.2 China Surface Mounted Knock Sensor Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Continental

- 10.1.1 Continental Basic Information
- 10.1.2 Continental Surface Mounted Knock Sensor Product Overview
- 10.1.3 Continental Surface Mounted Knock Sensor Product Market Performance
- 10.1.4 Continental Business Overview
- 10.1.5 Continental SWOT Analysis
- 10.1.6 Continental Recent Developments

10.2 Delphi

- 10.2.1 Delphi Basic Information
- 10.2.2 Delphi Surface Mounted Knock Sensor Product Overview
- 10.2.3 Delphi Surface Mounted Knock Sensor Product Market Performance
- 10.2.4 Delphi Business Overview
- 10.2.5 Delphi SWOT Analysis
- 10.2.6 Delphi Recent Developments

10.3 Denso Corporation

- 10.3.1 Denso Corporation Basic Information
- 10.3.2 Denso Corporation Surface Mounted Knock Sensor Product Overview
- 10.3.3 Denso Corporation Surface Mounted Knock Sensor Product Market Performance
- 10.3.4 Denso Corporation Business Overview
- 10.3.5 Denso Corporation SWOT Analysis
- 10.3.6 Denso Corporation Recent Developments

10.4 Bosch

- 10.4.1 Bosch Basic Information
- 10.4.2 Bosch Surface Mounted Knock Sensor Product Overview
- 10.4.3 Bosch Surface Mounted Knock Sensor Product Market Performance
- 10.4.4 Bosch Business Overview
- 10.4.5 Bosch Recent Developments

10.5 Inzi Controls

- 10.5.1 Inzi Controls Basic Information
- 10.5.2 Inzi Controls Surface Mounted Knock Sensor Product Overview
- 10.5.3 Inzi Controls Surface Mounted Knock Sensor Product Market Performance
- 10.5.4 Inzi Controls Business Overview

- 10.5.5 Inzi Controls Recent Developments
- 10.6 Hyundai Kefico
 - 10.6.1 Hyundai Kefico Basic Information
 - 10.6.2 Hyundai Kefico Surface Mounted Knock Sensor Product Overview
 - 10.6.3 Hyundai Kefico Surface Mounted Knock Sensor Product Market Performance
 - 10.6.4 Hyundai Kefico Business Overview
 - 10.6.5 Hyundai Kefico Recent Developments
- 10.7 NGK Spark Plug
 - 10.7.1 NGK Spark Plug Basic Information
 - 10.7.2 NGK Spark Plug Surface Mounted Knock Sensor Product Overview
 - 10.7.3 NGK Spark Plug Surface Mounted Knock Sensor Product Market Performance
 - 10.7.4 NGK Spark Plug Business Overview
 - 10.7.5 NGK Spark Plug Recent Developments
- 10.8 FACET
 - 10.8.1 FACET Basic Information
 - 10.8.2 FACET Surface Mounted Knock Sensor Product Overview
 - 10.8.3 FACET Surface Mounted Knock Sensor Product Market Performance
 - 10.8.4 FACET Business Overview
 - 10.8.5 FACET Recent Developments
- 10.9 Walker Products
 - 10.9.1 Walker Products Basic Information
 - 10.9.2 Walker Products Surface Mounted Knock Sensor Product Overview
 - 10.9.3 Walker Products Surface Mounted Knock Sensor Product Market Performance
 - 10.9.4 Walker Products Business Overview
 - 10.9.5 Walker Products Recent Developments
- 10.10 Tridon
 - 10.10.1 Tridon Basic Information
 - 10.10.2 Tridon Surface Mounted Knock Sensor Product Overview
 - 10.10.3 Tridon Surface Mounted Knock Sensor Product Market Performance
 - 10.10.4 Tridon Business Overview
 - 10.10.5 Tridon Recent Developments

11 SURFACE MOUNTED KNOCK SENSOR MARKET FORECAST BY REGION

- 11.1 Global Surface Mounted Knock Sensor Market Size Forecast
- 11.2 Global Surface Mounted Knock Sensor Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe Surface Mounted Knock Sensor Market Size Forecast by Country
 - 11.2.3 Asia Pacific Surface Mounted Knock Sensor Market Size Forecast by Region

11.2.4 South America Surface Mounted Knock Sensor Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Surface Mounted Knock Sensor by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Surface Mounted Knock Sensor Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Surface Mounted Knock Sensor by Type (2026-2035)

12.1.2 Global Surface Mounted Knock Sensor Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Surface Mounted Knock Sensor by Type (2026-2035)

12.2 Global Surface Mounted Knock Sensor Market Forecast by Application (2026-2035)

12.2.1 Global Surface Mounted Knock Sensor Sales (K Units) Forecast by Application

12.2.2 Global Surface Mounted Knock Sensor Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

- Table 1. Introduction of the Type
- Table 2. Introduction of the Application
- Table 3. Global Surface Mounted Knock Sensor Market Size by Type (M USD)
- Table 4. Global Surface Mounted Knock Sensor Market Size by Application
- Table 5. Surface Mounted Knock Sensor Market Size Comparison by Region (M USD)
- Table 6. Global Surface Mounted Knock Sensor Sales (K Units) by Manufacturers (2020-2025)
- Table 7. Global Surface Mounted Knock Sensor Sales Market Share by Manufacturers (2020-2025)
- Table 8. Global Surface Mounted Knock Sensor Revenue (M USD) by Manufacturers (2020-2025)
- Table 9. Global Surface Mounted Knock Sensor Revenue Share by Manufacturers (2020-2025)
- Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Surface Mounted Knock Sensor as of 2025)
- Table 11. Global Market Surface Mounted Knock Sensor Average Price (USD/Unit) of Key Manufacturers (2020-2025)
- Table 12. Manufacturers? Manufacturing Sites, Areas Served
- Table 13. Manufacturers? Product Type
- Table 14. Global Surface Mounted Knock Sensor Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 15. Mergers & Acquisitions, Expansion Plans
- Table 16. Market Overview of Key Raw Materials
- Table 17. Midstream Market Analysis
- Table 18. Downstream Customer Analysis
- Table 19. Key Development Trends
- Table 20. Driving Factors
- Table 21. Surface Mounted Knock Sensor Market Challenges
- Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026
- Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027
- Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026
- Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
- Table 26. Global Surface Mounted Knock Sensor Sales by Type (K Units)
- Table 27. Global Surface Mounted Knock Sensor Market Size by Type (M USD)

- Table 28. Global Surface Mounted Knock Sensor Sales (K Units) by Type (2020-2025)
- Table 29. Global Surface Mounted Knock Sensor Sales Market Share by Type (2020-2025)
- Table 30. Global Surface Mounted Knock Sensor Market Size (M USD) by Type (2020-2025)
- Table 31. Global Surface Mounted Knock Sensor Market Share by Type (2020-2025)
- Table 32. Global Surface Mounted Knock Sensor Price (USD/Unit) by Type (2020-2025)
- Table 33. Global Surface Mounted Knock Sensor Sales (K Units) by Application
- Table 34. Global Surface Mounted Knock Sensor Market Size by Application
- Table 35. Global Surface Mounted Knock Sensor Sales by Application (2020-2025) & (K Units)
- Table 36. Global Surface Mounted Knock Sensor Sales Market Share by Application (2020-2025)
- Table 37. Global Surface Mounted Knock Sensor Market Size by Application (2020-2025) & (M USD)
- Table 38. Global Surface Mounted Knock Sensor Market Share by Application (2020-2025)
- Table 39. Global Surface Mounted Knock Sensor Sales Growth Rate by Application (2020-2025)
- Table 40. Global Surface Mounted Knock Sensor Sales by Region (2020-2025) & (K Units)
- Table 41. Global Surface Mounted Knock Sensor Sales Market Share by Region (2020-2025)
- Table 42. Global Surface Mounted Knock Sensor Market Size by Region (2020-2025) & (M USD)
- Table 43. Global Surface Mounted Knock Sensor Market Size by Region (2020-2025)
- Table 44. North America Surface Mounted Knock Sensor Sales by Country (2020-2025) & (K Units)
- Table 45. North America Surface Mounted Knock Sensor Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe Surface Mounted Knock Sensor Sales by Country (2020-2025) & (K Units)
- Table 47. Europe Surface Mounted Knock Sensor Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific Surface Mounted Knock Sensor Sales by Region (2020-2025) & (K Units)
- Table 49. Asia Pacific Surface Mounted Knock Sensor Market Size by Region (2020-2025) & (M USD)
- Table 50. South America Surface Mounted Knock Sensor Sales by Country

(2020-2025) & (K Units)

Table 51. South America Surface Mounted Knock Sensor Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa Surface Mounted Knock Sensor Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa Surface Mounted Knock Sensor Market Size by Region (2020-2025) & (M USD)

Table 54. Global Surface Mounted Knock Sensor Production (K Units) by Region(2020-2025)

Table 55. Global Surface Mounted Knock Sensor Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Surface Mounted Knock Sensor Revenue Market Share by Region (2020-2025)

Table 57. Global Surface Mounted Knock Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Surface Mounted Knock Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Surface Mounted Knock Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Surface Mounted Knock Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Surface Mounted Knock Sensor Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. Continental Basic Information

Table 63. Continental Surface Mounted Knock Sensor Product Overview

Table 64. Continental Surface Mounted Knock Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Continental Business Overview

Table 66. Continental SWOT Analysis

Table 67. Continental Recent Developments

Table 68. Delphi Basic Information

Table 69. Delphi Surface Mounted Knock Sensor Product Overview

Table 70. Delphi Surface Mounted Knock Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. Delphi Business Overview

Table 72. Delphi SWOT Analysis

Table 73. Delphi Recent Developments

Table 74. Denso Corporation Basic Information

Table 75. Denso Corporation Surface Mounted Knock Sensor Product Overview

- Table 76. Denso Corporation Surface Mounted Knock Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 77. Denso Corporation Business Overview
- Table 78. Denso Corporation SWOT Analysis
- Table 79. Denso Corporation Recent Developments
- Table 80. Bosch Basic Information
- Table 81. Bosch Surface Mounted Knock Sensor Product Overview
- Table 82. Bosch Surface Mounted Knock Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 83. Bosch Business Overview
- Table 84. Bosch Recent Developments
- Table 85. Inzi Controls Basic Information
- Table 86. Inzi Controls Surface Mounted Knock Sensor Product Overview
- Table 87. Inzi Controls Surface Mounted Knock Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. Inzi Controls Business Overview
- Table 89. Inzi Controls Recent Developments
- Table 90. Hyundai Kefico Basic Information
- Table 91. Hyundai Kefico Surface Mounted Knock Sensor Product Overview
- Table 92. Hyundai Kefico Surface Mounted Knock Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. Hyundai Kefico Business Overview
- Table 94. Hyundai Kefico Recent Developments
- Table 95. NGK Spark Plug Basic Information
- Table 96. NGK Spark Plug Surface Mounted Knock Sensor Product Overview
- Table 97. NGK Spark Plug Surface Mounted Knock Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. NGK Spark Plug Business Overview
- Table 99. NGK Spark Plug Recent Developments
- Table 100. FACET Basic Information
- Table 101. FACET Surface Mounted Knock Sensor Product Overview
- Table 102. FACET Surface Mounted Knock Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 103. FACET Business Overview
- Table 104. FACET Recent Developments
- Table 105. Walker Products Basic Information
- Table 106. Walker Products Surface Mounted Knock Sensor Product Overview
- Table 107. Walker Products Surface Mounted Knock Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 108. Walker Products Business Overview

Table 109. Walker Products Recent Developments

Table 110. Tridon Basic Information

Table 111. Tridon Surface Mounted Knock Sensor Product Overview

Table 112. Tridon Surface Mounted Knock Sensor Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 113. Tridon Business Overview

Table 114. Tridon Recent Developments

Table 115. Global Surface Mounted Knock Sensor Sales Forecast by Region (2026-2035) & (K Units)

Table 116. Global Surface Mounted Knock Sensor Market Size Forecast by Region (2026-2035) & (M USD)

Table 117. North America Surface Mounted Knock Sensor Sales Forecast by Country (2026-2035) & (K Units)

Table 118. North America Surface Mounted Knock Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 119. Europe Surface Mounted Knock Sensor Sales Forecast by Country (2026-2035) & (K Units)

Table 120. Europe Surface Mounted Knock Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 121. Asia Pacific Surface Mounted Knock Sensor Sales Forecast by Region (2026-2035) & (K Units)

Table 122. Asia Pacific Surface Mounted Knock Sensor Market Size Forecast by Region (2026-2035) & (M USD)

Table 123. South America Surface Mounted Knock Sensor Sales Forecast by Country (2026-2035) & (K Units)

Table 124. South America Surface Mounted Knock Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 125. Middle East and Africa Surface Mounted Knock Sensor Sales Forecast by Country (2026-2035) & (Units)

Table 126. Middle East and Africa Surface Mounted Knock Sensor Market Size Forecast by Country (2026-2035) & (M USD)

Table 127. Global Surface Mounted Knock Sensor Sales Forecast by Type (2026-2035) & (K Units)

Table 128. Global Surface Mounted Knock Sensor Market Size Forecast by Type (2026-2035) & (M USD)

Table 129. Global Surface Mounted Knock Sensor Price Forecast by Type (2026-2035) & (USD/Unit)

Table 130. Global Surface Mounted Knock Sensor Sales (K Units) Forecast by

Application (2026-2035)

Table 131. Global Surface Mounted Knock Sensor Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

Figure 1. Product Picture of Surface Mounted Knock Sensor

Figure 2. Data Triangulation

Figure 3. Key Caveats

Figure 4. Global Surface Mounted Knock Sensor Market Size (M USD), 2025-2035

Figure 5. Global Surface Mounted Knock Sensor Market Size (M USD) (2020-2035)

Figure 6. Global Surface Mounted Knock Sensor Sales (K Units) & (2020-2035)

Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 9. Evaluation Matrix of Regional Market Development Potential

Figure 10. Surface Mounted Knock Sensor Market Size by Country (M USD)

Figure 11. Company Assessment Quadrant

Figure 12. Global Surface Mounted Knock Sensor Product Life Cycle

Figure 13. Surface Mounted Knock Sensor Sales Share by Manufacturers in 2025

Figure 14. Global Surface Mounted Knock Sensor Revenue Share by Manufacturers in 2025

Figure 15. Surface Mounted Knock Sensor Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025

Figure 16. Global Market Surface Mounted Knock Sensor Average Price (USD/Unit) of Key Manufacturers in 2025

Figure 17. The Global 5 and 10 Largest Players: Market Share by Surface Mounted Knock Sensor Revenue in 2025

Figure 18. Industry Chain Map of Surface Mounted Knock Sensor

Figure 19. Global Surface Mounted Knock Sensor Market PEST Analysis

Figure 20. Global Surface Mounted Knock Sensor Market Porter's Five Forces Analysis

Figure 21. Global Merchandise Trade as a Percentage Of GDP

Figure 22. US - Imports of Goods by Country

Figure 23. China Exports by Country

Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers

Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 26. Global Surface Mounted Knock Sensor Market Share by Type

Figure 27. Sales Market Share of Surface Mounted Knock Sensor by Type (2020-2025)

Figure 28. Sales Market Share of Surface Mounted Knock Sensor by Type in 2025

Figure 29. Market Share of Surface Mounted Knock Sensor by Type (2020-2025)

Figure 30. Market Share of Surface Mounted Knock Sensor by Type in 2025

Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global Surface Mounted Knock Sensor Market Share by Application

Figure 33. Global Surface Mounted Knock Sensor Sales Market Share by Application (2020-2025)

Figure 34. Global Surface Mounted Knock Sensor Sales Market Share by Application in 2025

Figure 35. Global Surface Mounted Knock Sensor Market Share by Application (2020-2025)

Figure 36. Global Surface Mounted Knock Sensor Market Share by Application in 2025

Figure 37. Global Surface Mounted Knock Sensor Sales Growth Rate by Application (2020-2025)

Figure 38. Global Surface Mounted Knock Sensor Sales Market Share by Region (2020-2025)

Figure 39. Global Surface Mounted Knock Sensor Market Size by Region (2020-2025)

Figure 40. North America Surface Mounted Knock Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Surface Mounted Knock Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Surface Mounted Knock Sensor Sales Market Share by Country in 2024

Figure 43. North America Surface Mounted Knock Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Surface Mounted Knock Sensor Market Size by Country in 2024

Figure 45. U.S. Surface Mounted Knock Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Surface Mounted Knock Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Surface Mounted Knock Sensor Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Surface Mounted Knock Sensor Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Surface Mounted Knock Sensor Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Surface Mounted Knock Sensor Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Surface Mounted Knock Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Surface Mounted Knock Sensor Sales Market Share by Country in 2024

Figure 53. Europe Surface Mounted Knock Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Surface Mounted Knock Sensor Market Size by Country in 2024

Figure 55. Germany Surface Mounted Knock Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Surface Mounted Knock Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Surface Mounted Knock Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Surface Mounted Knock Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Surface Mounted Knock Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Surface Mounted Knock Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Surface Mounted Knock Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Surface Mounted Knock Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Surface Mounted Knock Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Surface Mounted Knock Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Surface Mounted Knock Sensor Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Surface Mounted Knock Sensor Sales Market Share by Region in 2024

Figure 67. Asia Pacific Surface Mounted Knock Sensor Market Size by Region in 2024

Figure 68. China Surface Mounted Knock Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Surface Mounted Knock Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Surface Mounted Knock Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Surface Mounted Knock Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Surface Mounted Knock Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Surface Mounted Knock Sensor Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 74. India Surface Mounted Knock Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Surface Mounted Knock Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Surface Mounted Knock Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Surface Mounted Knock Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Surface Mounted Knock Sensor Sales and Growth Rate (K Units)

Figure 79. South America Surface Mounted Knock Sensor Sales Market Share by Country in 2024

Figure 80. South America Surface Mounted Knock Sensor Market Size and Growth Rate (M USD)

Figure 81. South America Surface Mounted Knock Sensor Market Size by Country in 2024

Figure 82. Brazil Surface Mounted Knock Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Surface Mounted Knock Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Surface Mounted Knock Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Surface Mounted Knock Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Surface Mounted Knock Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Surface Mounted Knock Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Surface Mounted Knock Sensor Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Surface Mounted Knock Sensor Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Surface Mounted Knock Sensor Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Surface Mounted Knock Sensor Market Size by Region in 2024

Figure 92. Saudi Arabia Surface Mounted Knock Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Surface Mounted Knock Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Surface Mounted Knock Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Surface Mounted Knock Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Surface Mounted Knock Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Surface Mounted Knock Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Surface Mounted Knock Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Surface Mounted Knock Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Surface Mounted Knock Sensor Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Surface Mounted Knock Sensor Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Surface Mounted Knock Sensor Production Market Share by Region (2020-2025)

Figure 103. North America Surface Mounted Knock Sensor Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Surface Mounted Knock Sensor Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Surface Mounted Knock Sensor Production (K Units) Growth Rate (2020-2025)

Figure 106. China Surface Mounted Knock Sensor Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Surface Mounted Knock Sensor Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Surface Mounted Knock Sensor Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Surface Mounted Knock Sensor Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Surface Mounted Knock Sensor Market Share Forecast by Type (2026-2035)

Figure 111. Global Surface Mounted Knock Sensor Sales Forecast by Application (2026-2035)

Figure 112. Global Surface Mounted Knock Sensor Market Share Forecast by

Application (2026-2035)

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