

# Global Non-Contact Temperature Sensors Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Non-Contact Temperature Sensors market size is expected to reach \$ 3606 million by 2032, rising at a market growth of 12.5% CAGR during the forecast period (2026-2032).

Non-contact temperature sensors are devices that determine surface temperatures without physical contact with the target object. They operate by capturing signals such as infrared radiation, laser reflection, or microwave scattering, and calculate temperature based on principles including blackbody radiation, pyroelectricity, or TDLAS. Their core value lies in ensuring safe, rapid, and precise temperature measurement under extreme, hazardous, or dynamic conditions, while preventing contamination or damage to the target. Mainstream measurement ranges span -50°C to 3000°C, with response times ranging from microsecond to millisecond levels and accuracy reaching 0.1°C. These sensors are suitable for diverse sectors including industrial, medical, and consumer electronics applications.

Global sales of non-contact temperature sensors are projected to reach 443.93 million units by 2025, with an average price of US\$3.46 per unit.

### Core Development Trends

**High Precision and Resolution:** Utilising MEMS processes, quantum detectors, and AI algorithms to enhance accuracy to 0.05°C, with infrared array resolutions reaching 640×480 pixels, suitable for low-temperature (-50°C and below) and minute temperature differential measurements.

**Intelligent Integration with IoT:** Incorporating edge computing, wireless communication, and cloud platforms to support remote monitoring, data traceability, and predictive maintenance such as thermal fault warning systems for industrial equipment.

**Miniaturisation and Integration:** MEMS technology reduces size to the millimetre scale, integrating signal processing and communication modules for compact applications like smartphones, VR/AR devices, and wearables.

**Green Low Power Consumption:** Utilises low-power MCUs and efficient power management, reducing standby power consumption to the microwatt level, suitable for battery-powered portable and wireless applications.

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

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

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

Global Non-Contact Temperature Sensors total production and demand, 2021-2032, (K Units)

Global Non-Contact Temperature Sensors total production value, 2021-2032, (USD Million)

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

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

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

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

Global Non-Contact Temperature Sensors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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

This report profiles key players in the global Non-Contact Temperature Sensors 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 FLUKE, Accurate Sensors, OMRON, IFM Electronic, Turck, Micro-Epsilon, OMEGA, Advanced Energy, Calex Electronics, Melexis, 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 Temperature Sensors market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (K Units) and average price (USD/Unit) by manufacturer, by Type, 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 Temperature Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Non-Contact Temperature Sensors Market, Segmentation by Type:

Infrared Temperature Sensors

Fiber Optic Temperature Sensors

Global Non-Contact Temperature Sensors Market, Segmentation by Detection Principle:

Thermopile

Pyroelectric

Microbolometer

## Global Non-Contact Temperature Sensors Market, Segmentation by Sales Channels:

Direct Sales

Distribution

## Global Non-Contact Temperature Sensors Market, Segmentation by Application:

Industrial Automation

Healthcare

Consumer Electronics

Aerospace / Defence

Other

## Companies Profiled:

FLUKE

Accurate Sensors

OMRON

IFM Electronic

Turck

Micro-Epsilon

OMEGA

Advanced Energy

Calex Electronics

Melexis

Keyence

OPTEX Group

Pasco

Process-Sensors

Proxitron

Banner

HTM

Eluox Automation

FSG Sensing

**Key Questions Answered:**

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

## Contents

### 1 SUPPLY SUMMARY

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

### 2 DEMAND SUMMARY

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

- 2.7 South Korea Non-Contact Temperature Sensors Consumption (2021-2032)
- 2.8 ASEAN Non-Contact Temperature Sensors Consumption (2021-2032)
- 2.9 India Non-Contact Temperature Sensors Consumption (2021-2032)

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

- 3.1 World Non-Contact Temperature Sensors Production Value by Manufacturer (2021-2026)
- 3.2 World Non-Contact Temperature Sensors Production by Manufacturer (2021-2026)
- 3.3 World Non-Contact Temperature Sensors Average Price by Manufacturer (2021-2026)
- 3.4 Non-Contact Temperature Sensors Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Non-Contact Temperature Sensors Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Non-Contact Temperature Sensors in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Non-Contact Temperature Sensors in 2025
- 3.6 Non-Contact Temperature Sensors Market: Overall Company Footprint Analysis
  - 3.6.1 Non-Contact Temperature Sensors Market: Region Footprint
  - 3.6.2 Non-Contact Temperature Sensors Market: Company Product Type Footprint
  - 3.6.3 Non-Contact Temperature Sensors 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 Temperature Sensors Production Value Comparison
  - 4.1.1 United States VS China: Non-Contact Temperature Sensors Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Non-Contact Temperature Sensors Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Non-Contact Temperature Sensors Production

## Comparison

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

4.2.2 United States VS China: Non-Contact Temperature Sensors Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Non-Contact Temperature Sensors Consumption Comparison

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

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

4.4 United States Based Non-Contact Temperature Sensors Manufacturers and Market Share, 2021-2026

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

4.4.2 United States Based Manufacturers Non-Contact Temperature Sensors Production Value (2021-2026)

4.4.3 United States Based Manufacturers Non-Contact Temperature Sensors Production (2021-2026)

4.5 China Based Non-Contact Temperature Sensors Manufacturers and Market Share

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

4.5.2 China Based Manufacturers Non-Contact Temperature Sensors Production Value (2021-2026)

4.5.3 China Based Manufacturers Non-Contact Temperature Sensors Production (2021-2026)

4.6 Rest of World Based Non-Contact Temperature Sensors Manufacturers and Market Share, 2021-2026

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

4.6.2 Rest of World Based Manufacturers Non-Contact Temperature Sensors Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Non-Contact Temperature Sensors Production (2021-2026)

## 5 MARKET ANALYSIS BY TYPE

5.1 World Non-Contact Temperature Sensors Market Size Overview by Type: 2021 VS 2025 VS 2032

## 5.2 Segment Introduction by Type

5.2.1 Infrared Temperature Sensors

5.2.2 Fiber Optic Temperature Sensors

## 5.3 Market Segment by Type

5.3.1 World Non-Contact Temperature Sensors Production by Type (2021-2032)

5.3.2 World Non-Contact Temperature Sensors Production Value by Type (2021-2032)

5.3.3 World Non-Contact Temperature Sensors Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY DETECTION PRINCIPLE**

6.1 World Non-Contact Temperature Sensors Market Size Overview by Detection Principle: 2021 VS 2025 VS 2032

### 6.2 Segment Introduction by Detection Principle

6.2.1 Thermopile

6.2.2 Pyroelectric

6.2.3 Microbolometer

### 6.3 Market Segment by Detection Principle

6.3.1 World Non-Contact Temperature Sensors Production by Detection Principle (2021-2032)

6.3.2 World Non-Contact Temperature Sensors Production Value by Detection Principle (2021-2032)

6.3.3 World Non-Contact Temperature Sensors Average Price by Detection Principle (2021-2032)

## **7 MARKET ANALYSIS BY SALES CHANNELS**

7.1 World Non-Contact Temperature Sensors Market Size Overview by Sales Channels: 2021 VS 2025 VS 2032

### 7.2 Segment Introduction by Sales Channels

7.2.1 Direct Sales

7.2.2 Distribution

### 7.3 Market Segment by Sales Channels

7.3.1 World Non-Contact Temperature Sensors Production by Sales Channels (2021-2032)

7.3.2 World Non-Contact Temperature Sensors Production Value by Sales Channels (2021-2032)

7.3.3 World Non-Contact Temperature Sensors Average Price by Sales Channels (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Non-Contact Temperature Sensors Market Size Overview by Application:  
2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Industrial Automation

8.2.2 Healthcare

8.2.3 Consumer Electronics

8.2.4 Aerospace / Defence

8.2.5 Other

8.3 Market Segment by Application

8.3.1 World Non-Contact Temperature Sensors Production by Application (2021-2032)

8.3.2 World Non-Contact Temperature Sensors Production Value by Application  
(2021-2032)

8.3.3 World Non-Contact Temperature Sensors Average Price by Application  
(2021-2032)

## **9 COMPANY PROFILES**

9.1 FLUKE

9.1.1 FLUKE Details

9.1.2 FLUKE Major Business

9.1.3 FLUKE Non-Contact Temperature Sensors Product and Services

9.1.4 FLUKE Non-Contact Temperature Sensors Production, Price, Value, Gross  
Margin and Market Share (2021-2026)

9.1.5 FLUKE Recent Developments/Updates

9.1.6 FLUKE Competitive Strengths & Weaknesses

9.2 Accurate Sensors

9.2.1 Accurate Sensors Details

9.2.2 Accurate Sensors Major Business

9.2.3 Accurate Sensors Non-Contact Temperature Sensors Product and Services

9.2.4 Accurate Sensors Non-Contact Temperature Sensors Production, Price, Value,  
Gross Margin and Market Share (2021-2026)

9.2.5 Accurate Sensors Recent Developments/Updates

9.2.6 Accurate Sensors Competitive Strengths & Weaknesses

9.3 OMRON

9.3.1 OMRON Details

9.3.2 OMRON Major Business

9.3.3 OMRON Non-Contact Temperature Sensors Product and Services

9.3.4 OMRON Non-Contact Temperature Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 OMRON Recent Developments/Updates

9.3.6 OMRON Competitive Strengths & Weaknesses

9.4 IFM Electronic

9.4.1 IFM Electronic Details

9.4.2 IFM Electronic Major Business

9.4.3 IFM Electronic Non-Contact Temperature Sensors Product and Services

9.4.4 IFM Electronic Non-Contact Temperature Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 IFM Electronic Recent Developments/Updates

9.4.6 IFM Electronic Competitive Strengths & Weaknesses

9.5 Turck

9.5.1 Turck Details

9.5.2 Turck Major Business

9.5.3 Turck Non-Contact Temperature Sensors Product and Services

9.5.4 Turck Non-Contact Temperature Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Turck Recent Developments/Updates

9.5.6 Turck Competitive Strengths & Weaknesses

9.6 Micro-Epsilon

9.6.1 Micro-Epsilon Details

9.6.2 Micro-Epsilon Major Business

9.6.3 Micro-Epsilon Non-Contact Temperature Sensors Product and Services

9.6.4 Micro-Epsilon Non-Contact Temperature Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Micro-Epsilon Recent Developments/Updates

9.6.6 Micro-Epsilon Competitive Strengths & Weaknesses

9.7 OMEGA

9.7.1 OMEGA Details

9.7.2 OMEGA Major Business

9.7.3 OMEGA Non-Contact Temperature Sensors Product and Services

9.7.4 OMEGA Non-Contact Temperature Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 OMEGA Recent Developments/Updates

9.7.6 OMEGA Competitive Strengths & Weaknesses

9.8 Advanced Energy

9.8.1 Advanced Energy Details

9.8.2 Advanced Energy Major Business

- 9.8.3 Advanced Energy Non-Contact Temperature Sensors Product and Services
- 9.8.4 Advanced Energy Non-Contact Temperature Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.8.5 Advanced Energy Recent Developments/Updates
- 9.8.6 Advanced Energy Competitive Strengths & Weaknesses
- 9.9 Calex Electronics
  - 9.9.1 Calex Electronics Details
  - 9.9.2 Calex Electronics Major Business
  - 9.9.3 Calex Electronics Non-Contact Temperature Sensors Product and Services
  - 9.9.4 Calex Electronics Non-Contact Temperature Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 Calex Electronics Recent Developments/Updates
  - 9.9.6 Calex Electronics Competitive Strengths & Weaknesses
- 9.10 Melexis
  - 9.10.1 Melexis Details
  - 9.10.2 Melexis Major Business
  - 9.10.3 Melexis Non-Contact Temperature Sensors Product and Services
  - 9.10.4 Melexis Non-Contact Temperature Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.10.5 Melexis Recent Developments/Updates
  - 9.10.6 Melexis Competitive Strengths & Weaknesses
- 9.11 Keyence
  - 9.11.1 Keyence Details
  - 9.11.2 Keyence Major Business
  - 9.11.3 Keyence Non-Contact Temperature Sensors Product and Services
  - 9.11.4 Keyence Non-Contact Temperature Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.11.5 Keyence Recent Developments/Updates
  - 9.11.6 Keyence Competitive Strengths & Weaknesses
- 9.12 OPTEX Group
  - 9.12.1 OPTEX Group Details
  - 9.12.2 OPTEX Group Major Business
  - 9.12.3 OPTEX Group Non-Contact Temperature Sensors Product and Services
  - 9.12.4 OPTEX Group Non-Contact Temperature Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.12.5 OPTEX Group Recent Developments/Updates
  - 9.12.6 OPTEX Group Competitive Strengths & Weaknesses
- 9.13 Pasco
  - 9.13.1 Pasco Details

- 9.13.2 Pasco Major Business
- 9.13.3 Pasco Non-Contact Temperature Sensors Product and Services
- 9.13.4 Pasco Non-Contact Temperature Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.13.5 Pasco Recent Developments/Updates
- 9.13.6 Pasco Competitive Strengths & Weaknesses
- 9.14 Process-Sensors
  - 9.14.1 Process-Sensors Details
  - 9.14.2 Process-Sensors Major Business
  - 9.14.3 Process-Sensors Non-Contact Temperature Sensors Product and Services
  - 9.14.4 Process-Sensors Non-Contact Temperature Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.14.5 Process-Sensors Recent Developments/Updates
  - 9.14.6 Process-Sensors Competitive Strengths & Weaknesses
- 9.15 Proxitron
  - 9.15.1 Proxitron Details
  - 9.15.2 Proxitron Major Business
  - 9.15.3 Proxitron Non-Contact Temperature Sensors Product and Services
  - 9.15.4 Proxitron Non-Contact Temperature Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.15.5 Proxitron Recent Developments/Updates
  - 9.15.6 Proxitron Competitive Strengths & Weaknesses
- 9.16 Banner
  - 9.16.1 Banner Details
  - 9.16.2 Banner Major Business
  - 9.16.3 Banner Non-Contact Temperature Sensors Product and Services
  - 9.16.4 Banner Non-Contact Temperature Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.16.5 Banner Recent Developments/Updates
  - 9.16.6 Banner Competitive Strengths & Weaknesses
- 9.17 HTM
  - 9.17.1 HTM Details
  - 9.17.2 HTM Major Business
  - 9.17.3 HTM Non-Contact Temperature Sensors Product and Services
  - 9.17.4 HTM Non-Contact Temperature Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.17.5 HTM Recent Developments/Updates
  - 9.17.6 HTM Competitive Strengths & Weaknesses
- 9.18 Eluox Automation

- 9.18.1 Eluox Automation Details
- 9.18.2 Eluox Automation Major Business
- 9.18.3 Eluox Automation Non-Contact Temperature Sensors Product and Services
- 9.18.4 Eluox Automation Non-Contact Temperature Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.18.5 Eluox Automation Recent Developments/Updates
- 9.18.6 Eluox Automation Competitive Strengths & Weaknesses
- 9.19 FSG Sensing
  - 9.19.1 FSG Sensing Details
  - 9.19.2 FSG Sensing Major Business
  - 9.19.3 FSG Sensing Non-Contact Temperature Sensors Product and Services
  - 9.19.4 FSG Sensing Non-Contact Temperature Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.19.5 FSG Sensing Recent Developments/Updates
  - 9.19.6 FSG Sensing Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 Non-Contact Temperature Sensors Industry Chain
- 10.2 Non-Contact Temperature Sensors Upstream Analysis
  - 10.2.1 Non-Contact Temperature Sensors Core Raw Materials
  - 10.2.2 Main Manufacturers of Non-Contact Temperature Sensors Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Non-Contact Temperature Sensors Production Mode
- 10.6 Non-Contact Temperature Sensors Procurement Model
- 10.7 Non-Contact Temperature Sensors Industry Sales Model and Sales Channels
  - 10.7.1 Non-Contact Temperature Sensors Sales Model
  - 10.7.2 Non-Contact Temperature Sensors 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 Temperature Sensors Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Non-Contact Temperature Sensors Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Non-Contact Temperature Sensors Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Non-Contact Temperature Sensors Production Value Market Share by Region (2021-2026)
- Table 5. World Non-Contact Temperature Sensors Production Value Market Share by Region (2027-2032)
- Table 6. World Non-Contact Temperature Sensors Production by Region (2021-2026) & (K Units)
- Table 7. World Non-Contact Temperature Sensors Production by Region (2027-2032) & (K Units)
- Table 8. World Non-Contact Temperature Sensors Production Market Share by Region (2021-2026)
- Table 9. World Non-Contact Temperature Sensors Production Market Share by Region (2027-2032)
- Table 10. World Non-Contact Temperature Sensors Average Price by Region (2021-2026) & (USD/Unit)
- Table 11. World Non-Contact Temperature Sensors Average Price by Region (2027-2032) & (USD/Unit)
- Table 12. Non-Contact Temperature Sensors Major Market Trends
- Table 13. World Non-Contact Temperature Sensors Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
- Table 14. World Non-Contact Temperature Sensors Consumption by Region (2021-2026) & (K Units)
- Table 15. World Non-Contact Temperature Sensors Consumption Forecast by Region (2027-2032) & (K Units)
- Table 16. World Non-Contact Temperature Sensors Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Non-Contact Temperature Sensors Producers in 2025
- Table 18. World Non-Contact Temperature Sensors Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Non-Contact Temperature Sensors Producers in 2025

Table 20. World Non-Contact Temperature Sensors Average Price by Manufacturer (2021-2026) & (USD/Unit)

Table 21. Global Non-Contact Temperature Sensors Company Evaluation Quadrant

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

Table 23. Head Office and Non-Contact Temperature Sensors Production Site of Key Manufacturer

Table 24. Non-Contact Temperature Sensors Market: Company Product Type Footprint

Table 25. Non-Contact Temperature Sensors Market: Company Product Application Footprint

Table 26. Non-Contact Temperature Sensors Competitive Factors

Table 27. Non-Contact Temperature Sensors New Entrant and Capacity Expansion Plans

Table 28. Non-Contact Temperature Sensors Mergers & Acquisitions Activity

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

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

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

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

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

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

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

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

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

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

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

Table 40. China Based Manufacturers Non-Contact Temperature Sensors Production,

(2021-2026) & (K Units)

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

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

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

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

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

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

Table 47. World Non-Contact Temperature Sensors Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Non-Contact Temperature Sensors Production by Type (2021-2026) & (K Units)

Table 49. World Non-Contact Temperature Sensors Production by Type (2027-2032) & (K Units)

Table 50. World Non-Contact Temperature Sensors Production Value by Type (2021-2026) & (USD Million)

Table 51. World Non-Contact Temperature Sensors Production Value by Type (2027-2032) & (USD Million)

Table 52. World Non-Contact Temperature Sensors Average Price by Type (2021-2026) & (USD/Unit)

Table 53. World Non-Contact Temperature Sensors Average Price by Type (2027-2032) & (USD/Unit)

Table 54. World Non-Contact Temperature Sensors Production Value by Detection Principle, (USD Million), 2021 & 2025 & 2032

Table 55. World Non-Contact Temperature Sensors Production by Detection Principle (2021-2026) & (K Units)

Table 56. World Non-Contact Temperature Sensors Production by Detection Principle (2027-2032) & (K Units)

Table 57. World Non-Contact Temperature Sensors Production Value by Detection Principle (2021-2026) & (USD Million)

Table 58. World Non-Contact Temperature Sensors Production Value by Detection Principle (2027-2032) & (USD Million)

Table 59. World Non-Contact Temperature Sensors Average Price by Detection Principle (2021-2026) & (USD/Unit)

Table 60. World Non-Contact Temperature Sensors Average Price by Detection Principle (2027-2032) & (USD/Unit)

Table 61. World Non-Contact Temperature Sensors Production Value by Sales Channels, (USD Million), 2021 & 2025 & 2032

Table 62. World Non-Contact Temperature Sensors Production by Sales Channels (2021-2026) & (K Units)

Table 63. World Non-Contact Temperature Sensors Production by Sales Channels (2027-2032) & (K Units)

Table 64. World Non-Contact Temperature Sensors Production Value by Sales Channels (2021-2026) & (USD Million)

Table 65. World Non-Contact Temperature Sensors Production Value by Sales Channels (2027-2032) & (USD Million)

Table 66. World Non-Contact Temperature Sensors Average Price by Sales Channels (2021-2026) & (USD/Unit)

Table 67. World Non-Contact Temperature Sensors Average Price by Sales Channels (2027-2032) & (USD/Unit)

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

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

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

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

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

Table 73. World Non-Contact Temperature Sensors Average Price by Application (2021-2026) & (USD/Unit)

Table 74. World Non-Contact Temperature Sensors Average Price by Application (2027-2032) & (USD/Unit)

Table 75. FLUKE Basic Information, Manufacturing Base and Competitors

Table 76. FLUKE Major Business

Table 77. FLUKE Non-Contact Temperature Sensors Product and Services

Table 78. FLUKE Non-Contact Temperature Sensors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. FLUKE Recent Developments/Updates

Table 80. FLUKE Competitive Strengths & Weaknesses

Table 81. Accurate Sensors Basic Information, Manufacturing Base and Competitors

Table 82. Accurate Sensors Major Business

Table 83. Accurate Sensors Non-Contact Temperature Sensors Product and Services

Table 84. Accurate Sensors Non-Contact Temperature Sensors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Accurate Sensors Recent Developments/Updates

Table 86. Accurate Sensors Competitive Strengths & Weaknesses

Table 87. OMRON Basic Information, Manufacturing Base and Competitors

Table 88. OMRON Major Business

Table 89. OMRON Non-Contact Temperature Sensors Product and Services

Table 90. OMRON Non-Contact Temperature Sensors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. OMRON Recent Developments/Updates

Table 92. OMRON Competitive Strengths & Weaknesses

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

Table 94. IFM Electronic Major Business

Table 95. IFM Electronic Non-Contact Temperature Sensors Product and Services

Table 96. IFM Electronic Non-Contact Temperature Sensors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. IFM Electronic Recent Developments/Updates

Table 98. IFM Electronic Competitive Strengths & Weaknesses

Table 99. Turck Basic Information, Manufacturing Base and Competitors

Table 100. Turck Major Business

Table 101. Turck Non-Contact Temperature Sensors Product and Services

Table 102. Turck Non-Contact Temperature Sensors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Turck Recent Developments/Updates

Table 104. Turck Competitive Strengths & Weaknesses

Table 105. Micro-Epsilon Basic Information, Manufacturing Base and Competitors

Table 106. Micro-Epsilon Major Business

Table 107. Micro-Epsilon Non-Contact Temperature Sensors Product and Services

Table 108. Micro-Epsilon Non-Contact Temperature Sensors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Micro-Epsilon Recent Developments/Updates

Table 110. Micro-Epsilon Competitive Strengths & Weaknesses

- Table 111. OMEGA Basic Information, Manufacturing Base and Competitors
- Table 112. OMEGA Major Business
- Table 113. OMEGA Non-Contact Temperature Sensors Product and Services
- Table 114. OMEGA Non-Contact Temperature Sensors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. OMEGA Recent Developments/Updates
- Table 116. OMEGA Competitive Strengths & Weaknesses
- Table 117. Advanced Energy Basic Information, Manufacturing Base and Competitors
- Table 118. Advanced Energy Major Business
- Table 119. Advanced Energy Non-Contact Temperature Sensors Product and Services
- Table 120. Advanced Energy Non-Contact Temperature Sensors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Advanced Energy Recent Developments/Updates
- Table 122. Advanced Energy Competitive Strengths & Weaknesses
- Table 123. Calnex Electronics Basic Information, Manufacturing Base and Competitors
- Table 124. Calnex Electronics Major Business
- Table 125. Calnex Electronics Non-Contact Temperature Sensors Product and Services
- Table 126. Calnex Electronics Non-Contact Temperature Sensors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Calnex Electronics Recent Developments/Updates
- Table 128. Calnex Electronics Competitive Strengths & Weaknesses
- Table 129. Melexis Basic Information, Manufacturing Base and Competitors
- Table 130. Melexis Major Business
- Table 131. Melexis Non-Contact Temperature Sensors Product and Services
- Table 132. Melexis Non-Contact Temperature Sensors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Melexis Recent Developments/Updates
- Table 134. Melexis Competitive Strengths & Weaknesses
- Table 135. Keyence Basic Information, Manufacturing Base and Competitors
- Table 136. Keyence Major Business
- Table 137. Keyence Non-Contact Temperature Sensors Product and Services
- Table 138. Keyence Non-Contact Temperature Sensors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Keyence Recent Developments/Updates

- Table 140. Keyence Competitive Strengths & Weaknesses
- Table 141. OPTEX Group Basic Information, Manufacturing Base and Competitors
- Table 142. OPTEX Group Major Business
- Table 143. OPTEX Group Non-Contact Temperature Sensors Product and Services
- Table 144. OPTEX Group Non-Contact Temperature Sensors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. OPTEX Group Recent Developments/Updates
- Table 146. OPTEX Group Competitive Strengths & Weaknesses
- Table 147. Pasco Basic Information, Manufacturing Base and Competitors
- Table 148. Pasco Major Business
- Table 149. Pasco Non-Contact Temperature Sensors Product and Services
- Table 150. Pasco Non-Contact Temperature Sensors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 151. Pasco Recent Developments/Updates
- Table 152. Pasco Competitive Strengths & Weaknesses
- Table 153. Process-Sensors Basic Information, Manufacturing Base and Competitors
- Table 154. Process-Sensors Major Business
- Table 155. Process-Sensors Non-Contact Temperature Sensors Product and Services
- Table 156. Process-Sensors Non-Contact Temperature Sensors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 157. Process-Sensors Recent Developments/Updates
- Table 158. Process-Sensors Competitive Strengths & Weaknesses
- Table 159. Proxitron Basic Information, Manufacturing Base and Competitors
- Table 160. Proxitron Major Business
- Table 161. Proxitron Non-Contact Temperature Sensors Product and Services
- Table 162. Proxitron Non-Contact Temperature Sensors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 163. Proxitron Recent Developments/Updates
- Table 164. Proxitron Competitive Strengths & Weaknesses
- Table 165. Banner Basic Information, Manufacturing Base and Competitors
- Table 166. Banner Major Business
- Table 167. Banner Non-Contact Temperature Sensors Product and Services
- Table 168. Banner Non-Contact Temperature Sensors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Banner Recent Developments/Updates

Table 170. Banner Competitive Strengths & Weaknesses

Table 171. HTM Basic Information, Manufacturing Base and Competitors

Table 172. HTM Major Business

Table 173. HTM Non-Contact Temperature Sensors Product and Services

Table 174. HTM Non-Contact Temperature Sensors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. HTM Recent Developments/Updates

Table 176. HTM Competitive Strengths & Weaknesses

Table 177. Eluox Automation Basic Information, Manufacturing Base and Competitors

Table 178. Eluox Automation Major Business

Table 179. Eluox Automation Non-Contact Temperature Sensors Product and Services

Table 180. Eluox Automation Non-Contact Temperature Sensors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Eluox Automation Recent Developments/Updates

Table 182. Eluox Automation Competitive Strengths & Weaknesses

Table 183. FSG Sensing Basic Information, Manufacturing Base and Competitors

Table 184. FSG Sensing Major Business

Table 185. FSG Sensing Non-Contact Temperature Sensors Product and Services

Table 186. FSG Sensing Non-Contact Temperature Sensors Production (K Units), Price (USD/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. FSG Sensing Recent Developments/Updates

Table 188. FSG Sensing Competitive Strengths & Weaknesses

Table 189. Global Key Players of Non-Contact Temperature Sensors Upstream (Raw Materials)

Table 190. Global Non-Contact Temperature Sensors Typical Customers

Table 191. Non-Contact Temperature Sensors Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Non-Contact Temperature Sensors Picture

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

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

Figure 4. World Non-Contact Temperature Sensors Production (2021-2032) & (K Units)

Figure 5. World Non-Contact Temperature Sensors Average Price (2021-2032) & (USD/Unit)

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

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

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

Figure 9. Europe Non-Contact Temperature Sensors Production (2021-2032) & (K Units)

Figure 10. Middle East and Africa Non-Contact Temperature Sensors Production (2021-2032) & (K Units)

Figure 11. China Non-Contact Temperature Sensors Production (2021-2032) & (K Units)

Figure 12. Japan Non-Contact Temperature Sensors Production (2021-2032) & (K Units)

Figure 13. India Non-Contact Temperature Sensors Production (2021-2032) & (K Units)

Figure 14. Non-Contact Temperature Sensors Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Non-Contact Temperature Sensors Consumption (2021-2032) & (K Units)

Figure 17. World Non-Contact Temperature Sensors Consumption Market Share by Region (2021-2032)

Figure 18. United States Non-Contact Temperature Sensors Consumption (2021-2032) & (K Units)

Figure 19. China Non-Contact Temperature Sensors Consumption (2021-2032) & (K Units)

Figure 20. Europe Non-Contact Temperature Sensors Consumption (2021-2032) & (K Units)

Figure 21. Japan Non-Contact Temperature Sensors Consumption (2021-2032) & (K Units)

Figure 22. South Korea Non-Contact Temperature Sensors Consumption (2021-2032) & (K Units)

Figure 23. ASEAN Non-Contact Temperature Sensors Consumption (2021-2032) & (K Units)

Figure 24. India Non-Contact Temperature Sensors Consumption (2021-2032) & (K Units)

Figure 25. Producer Shipments of Non-Contact Temperature Sensors by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Non-Contact Temperature Sensors Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Non-Contact Temperature Sensors Markets in 2025

Figure 28. United States VS China: Non-Contact Temperature Sensors Production Value Market Share Comparison (2021 & 2025 & 2032)

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

Figure 30. United States VS China: Non-Contact Temperature Sensors Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Non-Contact Temperature Sensors Production Market Share 2025

Figure 32. China Based Manufacturers Non-Contact Temperature Sensors Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Non-Contact Temperature Sensors Production Market Share 2025

Figure 34. World Non-Contact Temperature Sensors Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Non-Contact Temperature Sensors Production Value Market Share by Type in 2025

Figure 36. Infrared Temperature Sensors

Figure 37. Fiber Optic Temperature Sensors

Figure 38. World Non-Contact Temperature Sensors Production Market Share by Type (2021-2032)

Figure 39. World Non-Contact Temperature Sensors Production Value Market Share by Type (2021-2032)

Figure 40. World Non-Contact Temperature Sensors Average Price by Type (2021-2032) & (USD/Unit)

Figure 41. World Non-Contact Temperature Sensors Production Value by Detection

Principle, (USD Million), 2021 & 2025 & 2032

Figure 42. World Non-Contact Temperature Sensors Production Value Market Share by Detection Principle in 2025

Figure 43. Thermopile

Figure 44. Pyroelectric

Figure 45. Microbolometer

Figure 46. World Non-Contact Temperature Sensors Production Market Share by Detection Principle (2021-2032)

Figure 47. World Non-Contact Temperature Sensors Production Value Market Share by Detection Principle (2021-2032)

Figure 48. World Non-Contact Temperature Sensors Average Price by Detection Principle (2021-2032) & (USD/Unit)

Figure 49. World Non-Contact Temperature Sensors Production Value by Sales Channels, (USD Million), 2021 & 2025 & 2032

Figure 50. World Non-Contact Temperature Sensors Production Value Market Share by Sales Channels in 2025

Figure 51. Direct Sales

Figure 52. Distribution

Figure 53. World Non-Contact Temperature Sensors Production Market Share by Sales Channels (2021-2032)

Figure 54. World Non-Contact Temperature Sensors Production Value Market Share by Sales Channels (2021-2032)

Figure 55. World Non-Contact Temperature Sensors Average Price by Sales Channels (2021-2032) & (USD/Unit)

Figure 56. World Non-Contact Temperature Sensors Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Non-Contact Temperature Sensors Production Value Market Share by Application in 2025

Figure 58. Industrial Automation

Figure 59. Healthcare

Figure 60. Consumer Electronics

Figure 61. Aerospace / Defence

Figure 62. Other

Figure 63. World Non-Contact Temperature Sensors Production Market Share by Application (2021-2032)

Figure 64. World Non-Contact Temperature Sensors Production Value Market Share by Application (2021-2032)

Figure 65. World Non-Contact Temperature Sensors Average Price by Application (2021-2032) & (USD/Unit)

Figure 66. Non-Contact Temperature Sensors Industry Chain

Figure 67. Non-Contact Temperature Sensors Procurement Model

Figure 68. Non-Contact Temperature Sensors Sales Model

Figure 69. Non-Contact Temperature Sensors Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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