

Global Arc Detector Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Arc Detector market size will reach 144.19 Million USD in 2025 and is projected to reach 215.67 Million USD by 2032, with a CAGR of 5.92% (2025-2032). Notably, the China Arc Detector market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

An arc detector is a safety device designed to detect and respond to electrical arcs, which are high-intensity discharges of electricity caused by insulation breakdown, loose connections, or equipment faults. These arcs can generate extreme heat, leading to fire hazards, equipment damage, or power disruptions. Arc detectors utilize optical sensors, current monitoring, or a combination of technologies to identify the unique light and electrical patterns associated with arcs. Upon detection, the device triggers alarms, deactivates circuits, or activates suppression systems to mitigate risks. Widely used in electrical systems, power grids, and industrial applications, arc detectors are critical for ensuring safety, preventing costly downtime, and protecting personnel and assets from arc-related incidents.

The major global manufacturers of Arc Detector include Impedans, Inficon, AFT MICROWAVE, MKS Instruments, Profen, Narda-ATM, Unique Broadband Systems, Thermex-Thermatron, MicroStep-MIS, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises

that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Arc Detector. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Arc Detector market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Arc Detector market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Arc Detector industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Arc Detector Include:

Impedans

Inficon

AFT MICROWAVE

MKS Instruments

Profen

Narda-ATM

Unique Broadband Systems

Thermex-Thermatron

MicroStep-MIS

Arc Detector Product Segment Include:

RF Monitoring Type

Voltage and Current Monitoring Type

Photoelectric Monitoring Type

Arc Detector Product Application Include:

Semiconductor

Solar Battery

Medical Instruments

Optics

Others

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