

# Global Arc Fault Detection Devices (AFDD) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Arc Fault Detection Devices (AFDD) market size was valued at US\$ 2096 million in 2025 and is forecast to a readjusted size of US\$ 3477 million by 2032 with a CAGR of 7.4% during review period.

AFDDs are protective devices installed in consumer units to provide protection from arc faults. They use microprocessor technology to analyse the waveform of the electricity being used to detect any unusual signatures which would signify an arc on the circuit. This will cut off power to the affected circuit and could prevent a fire. They are far more sensitive to arcs than conventional circuit protective devices. Like a Residual Current Circuit Breaker (RCCB) or Residual Current Breaker with Overcurrent protection (RCBO), AFDDs usually incorporate a test button which can be operated by the end-user to prove the mechanical operation of the device. In terms of physical size, at present AFDDs are typically twice the size of a circuit-breaker and will require a larger consumer unit to accommodate. It is unlikely that AFDDs can be installed in an existing consumer unit due to spare physical space and the existing busbar connection arrangement, AFDDs require a busbar with live and neutral connections.

Upstream includes MCU/ASIC + signal acquisition (current/voltage), trip mechanism and plastics; midstream LV protection makers integrate arc-signature detection into MCB/RCBO platforms and certify to IEC/EN 62606 (or UL 1699 for North American AFCIs). Downstream demand is driven by residential/public buildings via electricians, panel builders and electrical wholesalers; UK wiring rules (18th Edition Amd.2) accelerated adoption from 28 Sep 2022 for specific premises/circuits.

As a key safety device for preventing electrical fires, the development and popularization of Arc Fault Detection Devices (AFDD) have always kept up with the demand upgrade in the field of electrical safety, and multiple core factors jointly drive the continuous progress of the industry. The rigid demand for electrical fire prevention and control is the primary driving force. With the continuous improvement of building electrification level, arc faults caused by line aging, poor contact, equipment failure and other factors have become one of the main causes of electrical fires. Traditional overload and short-circuit protection equipment is difficult to identify such hidden faults. However, AFDD can accurately capture arc signals and quickly cut off the power supply, effectively filling the gap in electrical safety protection. At the same time, the increasingly strict electrical safety standards in various countries provide important support for its market expansion. Many countries and regions have successively included AFDD in the scope of mandatory installation, covering residential buildings, commercial buildings, industrial plants and other scenarios. Policy dividends have directly driven the market demand for products. In addition, the integration of the Internet of Things and intelligent sensing technology has injected new impetus into its function upgrade. Modern AFDD has gradually got rid of the single protection function. By integrating intelligent features such as data collection, remote monitoring and fault early warning, it realizes the full-process control of electrical safety status, meeting the intelligent demand for safety protection in smart buildings and intelligent industry.

Despite the increasing application value of AFDD, their development and application still face many challenges that need to be overcome. The problem of detection accuracy in complex environments is particularly prominent. There are many factors such as non-linear loads and electromagnetic interference in actual electrical scenarios. These interferences are easy to be confused with real arc signals, leading to false alarms or missed alarms of the device. Especially in the environment of industrial high-frequency equipment operation and complex wiring, the stability of detection accuracy is difficult to guarantee. Insufficient product compatibility and adaptability also restrict its popularization. Electrical equipment of different brands and specifications have differences in voltage level and wiring mode, while the adaptation range of existing AFDD is limited. Some old lines or special types of equipment are difficult to match the corresponding protection devices, which affects the comprehensiveness of the protection system. In addition, the dual constraints of cost and awareness cannot be ignored. The R&D and manufacturing costs of high-end intelligent devices are relatively high, leading to high product prices, which limits their promotion in small and medium-sized businesses, old residential areas and other scenarios. At the same time, some users have insufficient understanding of the harmfulness of arc faults and the protection value of detection devices, and their willingness to install them actively is low, which

also brings certain resistance to the development of the industry.

This report is a detailed and comprehensive analysis for global Arc Fault Detection Devices (AFDD) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Arc Fault Detection Devices (AFDD) market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Arc Fault Detection Devices (AFDD) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Arc Fault Detection Devices (AFDD) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Arc Fault Detection Devices (AFDD) market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Arc Fault Detection Devices (AFDD)

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Arc Fault Detection Devices (AFDD) market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Schneider Electric, ABB, Eaton, Siemens, Hager Group, OEZ s.r.o., ETI, Schrack Technik, Legrand, Doepke, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## **Market Segmentation**

Arc Fault Detection Devices (AFDD) market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

1 Module

2 Module

3 Module

4 Module

### Market segment by Integrated Form

AFDD

Integrated MCB

Integrated RCBO

### Market segment by Application Scenarios

Output Circuit

Bypass Circuit

#### Market segment by Application

Residential

Business

Industrial

#### Major players covered

Schneider Electric

ABB

Eaton

Siemens

Hager Group

OEZ s.r.o.

ETI

Schrack Technik

Legrand

Doepke

NHP

GEYA

Littelfuse

Tengen Electric

DELIXI

ETEK

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Arc Fault Detection Devices (AFDD) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Arc Fault Detection Devices (AFDD), with price, sales quantity, revenue, and global market share of Arc Fault Detection Devices (AFDD) from 2021 to 2026.

Chapter 3, the Arc Fault Detection Devices (AFDD) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Arc Fault Detection Devices (AFDD) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions,

from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Arc Fault Detection Devices (AFDD) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Arc Fault Detection Devices (AFDD).

Chapter 14 and 15, to describe Arc Fault Detection Devices (AFDD) sales channel, distributors, customers, research findings and conclusion.

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