

# **Fire Protection Systems Market–Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Product (Fire Detection System {Fire Detectors, Fire Alarm System, Others}, Fire Sprinkler System, Fire Suppression, Fire Response, Fire Analysis), By Type (Active Fire Protection Systems, Passive Fire Protection Systems), By Application (Industrial, Commercial, Residential), By Service (Installation, Engineering and Design Services, Maintenance Services, Managed Services, Others), By Region**

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## **Abstracts**

Global Fire Protection Systems Market is expected to grow at a steady pace during the forecast period, 2024-2028, owing to the growing incidence of fire fatalities, property damage, and public safety worries during fire occurrences, globally. The growth of the market is also significantly impacted by the expansion of the corporate sector and an increase in construction investment. The market for fire prevention systems globally is expanding, but this is being slowed down by fluctuating raw material prices. India Fire Protection Systems Market stood at USD 1,457.35 million in 2022 and is expected to register a CAGR of 10.91% by 2031.

In order to prevent fires from spreading, certified devices called fire prevention systems are created in accordance with the requirements set by regulatory and governmental organizations. These items are employed in the detection and suppression of fire. These systems include equipment that helps with fire emergencies, such as smoke and

flame detectors. Sprinkler systems and alarm valves are two of the most popular fire safety devices.

Due to a lack of raw materials and supply chain disruptions caused by the Russia-Ukraine war, the market for fire protective materials suffered. The compounds that are frequently used to defend against fire, sealants, are produced in large quantities in both nations. The geopolitical unrest also had an impact on the export of sealants, which slowed the expansion of the sector. However, it is anticipated that the global government effort to put an end to the war would help to moderate the growth of the market for fire protective materials.

### Commercial Application to Dominate the Market

Fire protection materials are advantageous for many commercial buildings for security reasons. Fire protection features are used in commercial buildings to maintain 'compartmentation,' making sure that a fire in one area won't spread to another. To provide the highest level of safety, passive fire prevention materials can be applied to floors, ceilings, roofs, and walls. According to the European Public Real Estate Association, the largest commercial real estate markets, valued at around USD 4.8 trillion as of December 2022, are found in Germany, the United Kingdom, and France. In 2022, Germany held a sizable portion of the market for commercial real estate in Europe, accounting for over 1.8 trillion USD in total value, followed by the UK and France. For a long period, the Asia-Pacific region saw large investments in the business sector. The National Bureau of Statistics of China reports that throughout the course of 2021, Chinese real estate developers spent CNY 597.4 billion (about USD 93 billion) on office buildings, a decrease of about CNY 52 billion (almost USD 8 billion) from the year before.

### Increasing Importance of Code Compliance

The fire code of compliance is an absolute need in order to lessen the consequences and damage brought on by fire. The process of ensuring conformity with all codes, rules, regulations, and ordinances is known as 'code of compliance.' Thus, the fire code of compliance is a fundamental requirement to stop fire-related damage. This may result in more fire inspections and raise security and safety standards. Building inspectors with the necessary training or independent organizations can conduct a fire inspection. Buildings must therefore have fire protection systems installed in order to comply with the fire code. The best and safest way to protect locals and visitors from a fire is using fire protection systems. As a result, it is expected that demand for fire prevention

systems would increase nationwide during the forecast period.

#### Fire Protection 4.0:

In order to improve the global industrial sector, the government has devised a framework for fire protection 4.0, also known as the fourth evolution of the fire protection system. The goal of the policy is to incorporate automation and cutting-edge technologies into both the nation's current industrial infrastructure and its potential future industrial growth. The internet and Artificial Intelligence (AI) are significantly changing how fire prevention systems operate or may operate. The strategy promotes stable growth in the industrial sector through the use of robotics, AI, and digitization. Fire detection systems are crucial in industrial settings because of the multiple heat-emitting activities and the presence of hazardous materials. As a result, fire protection 4.0 is anticipated to boost the global market. Several intelligent subsystems are integrated on the information loop by a Fire & Gas (F&G) safety system. These supporting systems connect equipment that has been certified to adhere to various safety standards for flame and gas applications. Traditional fire panels, on the other hand, are not authorized for process monitoring. Depending on the use and region, different F&G safety systems have different certifications. They might consist of but are not restricted to: SIL 2 certified and in compliance with IEC-61508 and 61511, FM; Flame & Gas Safety Instrumented Function (SIF) approved; Compliant with FM 6130/6320, Compliant with FM 6130/6320. Owners and operators of high hazard facilities can increase operational effectiveness and react to occurrences more quickly thanks to Industry 4.0. Wherever the operator is located, information can be relayed in real time, without fail, by compliant fire and gas safety systems that detect flames and gases, activate notification and suppression devices, and check equipment for maintenance issues. Technologies related to Industry 4.0 can offer the resources needed to meet those demands. A fault-tolerant, redundant, and bi-directional topology of 'smart' fire, gas, flame, and smoke detectors makes up the architecture of an Industry 4.0 fire and gas safety system. Officials at the plant can integrate with the process control system thanks to these connected technologies, increasing the likelihood that they will survive an incident.

#### Increased Concern for Employee Safety

One of the most crucial concerns in the commercial and industrial sectors is safeguarding the employees' safety and security. Equipment that can thwart dangers to human life and dangerous hazards must therefore be placed in industries. Due This can boost staff welfare, morale, and productivity because it increases worker safety and

allows them to focus more easily at work. The first persons who are vulnerable to the negative consequences of fire when it occurs in a commercial setting are the workers. So, it is the organization's primary responsibility to offer safety measures to safeguard employees' safety. The standards of employee safety have raised recently as a result of the government's strict regulations and rules-imposition. As a result of the use of contemporary safety instruments and methods, the number of workplace fatalities has been declining. Installation of fire prevention systems in workplaces and businesses is essential due to the serious threat and harm that fire poses. Several types of fire suppressors, such as fire extinguishers, fire pumps, dry compressors, and fire hydrants, are also included. These include heat and flame sensors, smoke detectors, emergency sirens, and other devices.

#### Surge In Residential & Non-residential Construction Activities:

Investments made in residential and commercial development are very important for the growth of the fire protection systems industry. Moreover, over the past few years, the governments has developed programs to design, construct, and run buildings in accordance with the green building idea, in which the building's annual energy usage is roughly equivalent to the renewable energy produced on-site. The expansion of the residential and commercial construction industries has boosted market expansion and is expected to keep driving up demand for fire prevention systems.

#### Market Segmentation

Global Fire Protection Systems market can be segmented into product, fire detection system type, application, service, and region. Based on product, the market is further divided into fire detection system, fire sprinkler system, fire suppression, fire response, and fire analysis. Based on fire detection system type, the market is further split into fire detectors, fire alarm system, and others. Based on type, the market is further bifurcated into active fire protection systems and passive fire protection systems. Based on application, the market is segmented into industrial, commercial, and residential. Based on service, the market is segmented into installation, engineering and design services, maintenance services, managed services, and others. Based on region, the market is segmented into North America, Asia-Pacific, Europe, South America, Middle East.

#### Market Players

Major market players in the Global Fire Protection System market are Johnson Controls International plc, Honeywell International, Inc., Raytheon Technologies Corporation,

GENTEX CORPORATION, Siemens AG, Robert Bosch GmbH, Halma plc, Eaton Corporation Plc, USG Corporation, and W. R. Grace & Co.

Report Scope:

In this report, the Global Fire Protection System has been segmented into following categories, in addition to the industry trends which have also been detailed below:

Fire Protection System Market, By Product:

Fire Detection System

Fire Detectors

Fire Alarm System

Others

Fire Sprinkler System

Fire Suppression

Fire Response

Fire Analysis

Fire Protection System Market, By Type:

Active Fire Protection Systems

Passive Fire Protection Systems

Fire Protection System Market, By Application:

Industrial

Commercial

Residential

## Fire Protection System Market, By Service:

Installation

Engineering and Design Services

Maintenance Services

Managed Services

Others

## Fire Protection System Market, By Region:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

Japan

South Korea

Indonesia

Europe

Germany

United Kingdom

France

Russia

Spain

South America

Brazil

Argentina

Middle East

Saudi Arabia

South Africa

Egypt

UAE

Israel

## Competitive Landscape

**Company Profiles:** Detailed analysis of the major companies present in the Global Fire Protection System market.

## Available Customizations:

With the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).



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