

# Global Pyroelectric Infrared Flame Sensor Market Growth 2026-2032

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## Abstracts

The global Pyroelectric Infrared Flame Sensor market size is predicted to grow from US\$ 155 million in 2025 to US\$ 244 million in 2032; it is expected to grow at a CAGR of 6.4% from 2026 to 2032.

In 2025, global Pyroelectric Infrared Flame Sensor production reached approximately 3,000 K units, with an average global market price of around 52.8 USD/unit.

Pyroelectric Infrared Flame Sensor is a flame detection device that utilizes the pyroelectric effect of piezoelectric materials to respond to specific infrared radiation bands emitted by combustion flames, converts transient infrared thermal energy into measurable electrical signals, identifies flame characteristics through signal processing, and triggers alarm or control actions, featuring rapid response, high sensitivity and anti-interference capabilities for open flame monitoring.

Demand for Pyroelectric Infrared Flame Sensor is driven by stringent industrial fire safety regulations, expansion of petrochemical, energy and manufacturing critical facilities, and rising requirements for early fire warning in commercial and civil buildings, with growing preference for high anti-interference, fast response and multi-band detection products; business opportunities lie in the miniaturization and low-power optimization of sensing elements, integration with intelligent fire alarm systems, mass production for industrial safety upgrades and civil fire protection markets, and customized products for harsh working environments, while the development of smart fire protection and IoT fire monitoring systems creates incremental market space for high-performance pyroelectric infrared flame sensors.

LP Information, Inc. (LPI) ' newest research report, the "Pyroelectric Infrared Flame

Sensor Industry Forecast” looks at past sales and reviews total world Pyroelectric Infrared Flame Sensor sales in 2025, providing a comprehensive analysis by region and market sector of projected Pyroelectric Infrared Flame Sensor sales for 2026 through 2032. With Pyroelectric Infrared Flame Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Pyroelectric Infrared Flame Sensor industry.

This Insight Report provides a comprehensive analysis of the global Pyroelectric Infrared Flame Sensor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Pyroelectric Infrared Flame Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Pyroelectric Infrared Flame Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Pyroelectric Infrared Flame Sensor and breaks down the forecast by Sensing Element Material, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Pyroelectric Infrared Flame Sensor.

This report presents a comprehensive overview, market shares, and growth opportunities of Pyroelectric Infrared Flame Sensor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Sensing Element Material:

Single Crystal Pyroelectric Materials

Ceramic Pyroelectric Materials

Polymer Pyroelectric Materials

Segmentation by Detection Infrared Band:

Broadband Infrared Detection Sensors

Narrowband Infrared Detection Sensors

Dual-Band Infrared Detection Sensors

Segmentation by Output Signal Type:

Analog Signal Output Sensors

Digital Signal Output Sensors

Switch Signal Output Sensors

Segmentation by Application:

Petrochemical Facility Monitoring

Industrial Production Fire Detection

Power Equipment Safety Monitoring

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

## APAC

China

Japan

Korea

Southeast Asia

India

Australia

## Europe

Germany

France

UK

Italy

Russia

## Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

InfraTec

Kemet (Yageo)

Laser Components

HJP Technology

Broadcom

Winsen Electronics

Met-sensor

ICC

Micro-Hybrid

SaiyaSensor

Senba Sensing Technology

Anysafe

Vertex

Sensortiot

#### Key Questions Addressed in this Report

What is the 10-year outlook for the global Pyroelectric Infrared Flame Sensor market?

What factors are driving Pyroelectric Infrared Flame Sensor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Pyroelectric Infrared Flame Sensor market opportunities vary by end market

size?

How does Pyroelectric Infrared Flame Sensor break out by Sensing Element Material,  
by Application?

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