

Global Magnetostrictive Position Sensors Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Magnetostrictive Position Sensors market size will reach 228.19 Million USD in 2025 and is projected to reach 356.47 Million USD by 2032, with a CAGR of 6.58% (2025-2032). Notably, the China Magnetostrictive Position Sensors 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

Magnetostrictive position sensors are devices that use the principle of magnetostriction to measure and determine the position of an object. Magnetostriction refers to the phenomenon where certain materials undergo dimensional changes when subjected to a magnetic field. In magnetostrictive position sensors, a wire or rod made from a magnetostrictive material, such as Terfenol-D or nickel, is used. The sensor consists of a magnetostrictive element, a position magnet, and a sensing coil. An electrical pulse is sent through the wire, generating a magnetic field that propagates along its length. When the position magnet is placed near the wire, it creates a local magnetic field where their fields interact. Variation in the position of the magnet alters the time delay for the return of the magnetic field, which is detected by the sensing coil. By measuring the time of flight, the position of the magnet, and hence the object being measured, can be accurately determined. Magnetostrictive position sensors are known for their high accuracy, fast response times, and durability, making them suitable for industrial automation, robotics, machine tools, and other applications where precise position control is crucial.

The major global manufacturers of Magnetostrictive Position Sensors include MTS Sensors, BALLUFF, ASM Sensor, MEGATRON, TURCK, AMETEK Gemco, TSM SENSORS SRL, GEFTRAN, 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 Magnetostrictive Position Sensors. 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 Magnetostrictive Position Sensors 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 Magnetostrictive Position Sensors 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 Magnetostrictive Position Sensors 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 Magnetostrictive Position Sensors Include:

MTS Sensors

BALLUFF

ASM Sensor

MEGATRON

TURCK

AMETEK Gemco

TSM SENSORS SRL

GEFRAN

Magnetostrictive Position Sensors Product Segment Include:

Analog Type

Digital Type

Magnetostrictive Position Sensors Product Application Include:

Petroleum Industry

Chemical Industry

Pharmaceutical Industry

Food Industry

Other Industries

Chapter Scope

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