

# Global General-purpose Inductive Encoder Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G88A0C8EA26CEN.html>

Date: June 2026

Pages: 117

Price: US\$ 4,480.00 (Single User License)

ID: G88A0C8EA26CEN

## Abstracts

The global General-purpose Inductive Encoder market size is expected to reach \$ 457 million by 2032, rising at a market growth of 14.0% CAGR during the forecast period (2026-2032).

A general-purpose inductive encoder is a non-contact position feedback device that converts rotary angle, linear displacement, or shaft position into electrical or digital position signals by using electromagnetic induction, eddy-current sensing, or transformer-like coupling. A typical system consists of a stator or readhead, a rotor or metallic target, PCB coils, signal-conditioning electronics, output interfaces, and mechanical mounting components. Compared with optical encoders, inductive encoders are less sensitive to dust, oil, moisture, vibration, and shock; compared with magnetic encoders, they often require no permanent magnet and offer stronger immunity to stray magnetic fields. 2025, global general-purpose inductive encoder production reached approximately 855.24 K Units. The value chain of general-purpose inductive encoders starts from PCB substrates, flexible circuits, copper foils, coil fabrication, signal-conditioning ASICs, MCUs, connectors, housings, bearings, metallic targets, potting compounds, and shielding materials. The key technical barriers lie in coil-pattern design, excitation and receiving circuits, demodulation algorithms, interpolation, temperature compensation, EMC design, and mechanical tolerance control. Downstream demand mainly comes from servo motors, industrial robots, collaborative robots, CNC machine tools, semiconductor equipment, medical devices, aerospace, and harsh-environment machinery.

General-purpose inductive encoders represent a fast-growing but still relatively specialized technology within the broader encoder market. Their key advantages include non-contact operation, robustness against contamination, vibration and shock,

strong immunity to stray magnetic fields, and easy PCB-based integration. Historically, inductive encoders were mainly used in harsh-environment and high-reliability applications, but demand is expanding with the growth of servo motors, robot joints, compact actuators, and functional-safety applications. Although optical and magnetic encoders still dominate the overall encoder market, inductive encoders are expected to gain share in hollow-shaft, thin-profile, magnet-free, high-EMC, and high-reliability position feedback applications.

This report studies the global General-purpose Inductive Encoder production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for General-purpose Inductive Encoder and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of General-purpose Inductive Encoder that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global General-purpose Inductive Encoder total production and demand, 2021-2032, (K Units)

Global General-purpose Inductive Encoder total production value, 2021-2032, (USD Million)

Global General-purpose Inductive Encoder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global General-purpose Inductive Encoder consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: General-purpose Inductive Encoder domestic production, consumption, key domestic manufacturers and share

Global General-purpose Inductive Encoder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global General-purpose Inductive Encoder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global General-purpose Inductive Encoder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global General-purpose Inductive Encoder market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Heidenhain, Renishaw, Sensata

Technologies, Turck, Novanta (Celera Motion), Kubler, Reagles Sensor, Gongwang Electronics, Flux GmbH, NSD Corporation, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World General-purpose Inductive Encoder market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global General-purpose Inductive Encoder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global General-purpose Inductive Encoder Market, Segmentation by Type:

Rotary/Angle

Linear

Global General-purpose Inductive Encoder Market, Segmentation by Output:

Absolute

Incremental

Global General-purpose Inductive Encoder Market, Segmentation by Interface:

Digital

Analog

Global General-purpose Inductive Encoder Market, Segmentation by Integration Point:

Motor Feedback

Output-side

Global General-purpose Inductive Encoder Market, Segmentation by Application:

Robots

CNC Machine Tools

Servo Motors & Industrial Motion Control

Others

Companies Profiled:

Heidenhain

Renishaw

Sensata Technologies

Turck

Novanta (Celera Motion)

Kubler

Reagles Sensor

Gongwang Electronics

Flux GmbH

NSD Corporation

SensnaTech

#### Key Questions Answered:

1. How big is the global General-purpose Inductive Encoder market?
2. What is the demand of the global General-purpose Inductive Encoder market?
3. What is the year over year growth of the global General-purpose Inductive Encoder market?
4. What is the production and production value of the global General-purpose Inductive Encoder market?
5. Who are the key producers in the global General-purpose Inductive Encoder market?
6. What are the growth factors driving the market demand?

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