

# Global Single-turn Optical Encoder Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Single-turn Optical Encoder market size is expected to reach \$ 503 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032).

A single-turn optical encoder is an optical motion sensor that reports the absolute angular position within one full revolution (0°-360°) of a rotating shaft. 'Single-turn' means the encoder tells you where you are within the current turn, but it does not keep a separate count of how many full turns have happened. If the shaft keeps rotating past 360°, the position pattern repeats in the next turn (so an angle like 361° is treated the same as 1° in many single-turn systems). This 'within one revolution' idea is the core of the definition: single-turn encoders measure position across 360° and repeat the output every revolution, while multi-turn encoders add the ability to track the number of revolutions.

A single-turn optical encoder is an absolute encoder that gives a unique position code for angles within 0°-360°, but it can also be used in systems that output incremental signals derived from optical sensing (for speed/direction) while still being 'single-turn' in the sense of measurement range. In industrial language, 'single-turn' is mainly used when discussing absolute encoders: single-turn absolute encoders track position within one revolution; multi-turn absolute encoders track position within one revolution and the number of revolutions.

In 2025, global Optical Encoders production reached approximately 3881 K Units, with an average global market price of around US\$ 88.5 per unit. The global single-line production capacity ranges from 150 to 300 K Units per year. The industry's gross profit margin is approximately 30%-40%.

One clear trend is the steady shift from incremental feedback toward absolute feedback in many machine designs. The reason is simple: absolute feedback reduces commissioning time and improves recovery after power interruptions. HEIDENHAIN

emphasizes that with the absolute measuring method, the position value is available immediately upon switch-on and there is no need to search for a reference position. IFM similarly points out that absolute encoders keep the absolute position value available even after power loss and don't need a homing run after a power failure. As factories become more automated and less tolerant of downtime, this 'no homing, faster restart' advantage becomes more valuable. In that environment, single-turn absolute encoders are often the simplest way to get the benefit of absolute position without paying for multi-turn capability that the application does not need.

A second trend is wider adoption in compact and integrated systems, especially motors and actuators that come as complete modules. Many OEMs want to buy a motor or joint module that already includes position sensing, rather than designing the sensing from scratch. Single-turn encoders are often enough for joints, pivot mechanisms, and wheels where the range of motion is limited or where the system can manage turn counting elsewhere if needed. The HEIDENHAIN examples (AGV drive wheels, blood pumps, entry-level motors) reflect exactly the types of compact systems where single-turn is attractive.

A third trend is the movement toward more digital connectivity and richer data, not only position. Modern controls want diagnostics, configuration, and sometimes additional sensor data delivered through the same connection. HEIDENHAIN notes that absolute interfaces allow the position value to be requested at any time and that some interfaces provide incremental signals as well; they also discuss additional data transfer and operating modes where encoders can be parameterized and used flexibly. This trend pushes encoder suppliers to offer more interface options, better EMC robustness, and smarter data handling because the encoder is increasingly treated as an intelligent node in a motion network, not a passive sensor.

This report studies the global Single-turn Optical Encoder production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single-turn Optical 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 Single-turn Optical Encoder that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Single-turn Optical Encoder total production and demand, 2021-2032, (K Units)

Global Single-turn Optical Encoder total production value, 2021-2032, (USD Million)

Global Single-turn Optical Encoder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Single-turn Optical Encoder consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Single-turn Optical Encoder domestic production, consumption, key domestic manufacturers and share

Global Single-turn Optical Encoder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Single-turn Optical Encoder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Single-turn Optical Encoder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Single-turn Optical 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 Broadcom, BEI Sensors, Renishaw, Dynapar, Baumer Group, TAMAGAWA SEIKI, CTS, Allied Motion, EPC, US Digital, 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 Single-turn Optical 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 Single-turn Optical Encoder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Single-turn Optical Encoder Market, Segmentation by Type:

Linear Encoder

Rotary Encoder

Global Single-turn Optical Encoder Market, Segmentation by Sales Channel:

Online

Offline

Global Single-turn Optical Encoder Market, Segmentation by Mechanical Construction:

Shaft Encoders

Hollow-Shaft Encoders

Ring Encoders

Others

Global Single-turn Optical Encoder Market, Segmentation by Optical Principle:

Transmissive

Reflective

Interferential

Global Single-turn Optical Encoder Market, Segmentation by Application:

Automated Industry

CNC Machine Tool

Robot

Precision Measuring Equipment

Others

### **Companies Profiled:**

Broadcom

BEI Sensors

Renishaw

Dynapar

Baumer Group

TAMAGAWA SEIKI

CTS

Allied Motion

EPC

US Digital

CUI

OMRON Corporation

HEIDENHAIN

Bourns

Grayhill

Gurley Precision Instruments

HONEYWELL INTERNATIONAL INC

Graduate Honest Sensor Corp

HONTKO

Yuheng Optics

Inovance Technology

**Key Questions Answered:**

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

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