

Global Pin-type Zero-sequence Current Transformer Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Pin-type Zero-sequence Current Transformer market size is expected to reach \$ 236 million by 2032, rising at a market growth of 5.9% CAGR during the forecast period (2026-2032).

In 2025, global Pin-type Zero-sequence Current Transformer production reached approximately 46.27 M Units. The average price is approximately \$3.40. Pin-type Zero-sequence Current Transformer is a passive magnetic sensing component designed for direct through-hole installation on a printed circuit board by means of solder pins, DIP terminals, or equivalent rigid leads.

Pin-type Zero-sequence Current Transformer market is a mature but highly specialized segment of the magnetic-component industry. Its addressable scope should not be equated with the broader market for zero-sequence or core-balance current transformers used in switchgear, cable protection, motor protection, and medium-voltage distribution. The relevant products are compact passive toroidal devices mounted directly on a control board and incorporated into residual-current protective devices, ground-fault interrupters, appliance leakage interrupters, household appliances, charging equipment, and industrial safety circuits. Their commercial value is determined not merely by transformation ratio, but by sensitivity at milliampere-level residual current, output consistency, balance-current noise, temperature drift, recovery after DC impulse or saturation, dielectric strength, shielding, aperture geometry, and compatibility with automated PCB assembly. A meaningful portion of global demand is supplied through customer-specific designs that are never shown in public catalogues. Consequently, the number of visible branded suppliers is lower than the actual number of manufacturing entities, while public revenue data significantly understates the role of regional private OEMs.

The traditional passive supply base is concentrated in China, Japan, South Korea, and Taiwan. Chinese manufacturers benefit from an integrated ecosystem covering high-permeability cores, winding, plastic molding, shielding, encapsulation, PCB components, and high-volume assembly. Japanese suppliers generally compete through consistency, thermal performance, low balance noise, and long-standing qualification with appliance and industrial customers. Korean suppliers are closely linked to domestic manufacturers of leakage-protection devices, appliances, energy systems, and charging equipment, while Taiwanese suppliers combine electronic-component distribution reach with customized magnetic-device manufacturing. The broader supplier universe also includes European companies specializing in AC/DC-sensitive residual-current sensors based on fluxgate, ASIC, and active electronic architectures. Those active products are important for understanding competitive substitution but are not included in the narrow passive-component revenue model. Public product information from KEMET, Kohshin Electric, and Taehwatrans confirms that standardized pin or horizontal PCB-mounted ZCT products remain commercially available alongside custom OEM products.

Demand remains anchored by RCDs, RCCBs, RCBOs, ELCBs, GFCIs, ALCIs, appliances, smart plugs, water heaters, air conditioners, power tools, and other safety-critical electrical products. Additional growth is being created by AC charging equipment, portable charging cords, energy storage, photovoltaic inverters, uninterruptible power supplies, and increasingly intelligent distribution electronics. However, electric-vehicle charging represents both an opportunity and a substitution risk. IEC 62955 applies to residual direct-current detecting devices used in permanently connected Mode 3 AC charging stations, while UL 2231 addresses personnel-protection systems for EV supply circuits in North America. These requirements have accelerated the use of sensors capable of detecting smooth DC and mixed-frequency AC/DC residual currents. Passive PCB ZCTs will continue to serve conventional AC residual-current detection and cost-sensitive protection circuits, but higher-end Type B and DC-sensitive systems are increasingly adopting active fluxgate or integrated sensor modules. The industry outlook is therefore moderately positive rather than uniformly high growth: volume will expand, yet price pressure and architecture substitution will limit revenue growth for conventional products.

This report studies the global Pin-type Zero-sequence Current Transformer production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Pin-type

Zero-sequence Current Transformer 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 Pin-type Zero-sequence Current Transformer that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Pin-type Zero-sequence Current Transformer total production and demand, 2021-2032, (K Units)

Global Pin-type Zero-sequence Current Transformer total production value, 2021-2032, (USD Million)

Global Pin-type Zero-sequence Current Transformer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Pin-type Zero-sequence Current Transformer consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Pin-type Zero-sequence Current Transformer domestic production, consumption, key domestic manufacturers and share

Global Pin-type Zero-sequence Current Transformer production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Pin-type Zero-sequence Current Transformer production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Pin-type Zero-sequence Current Transformer production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Pin-type Zero-sequence Current Transformer 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 YAGEO, Xiamen ZTC, Kohshin Electric, Taehwatrans, Shenzhen Deheng, Dechang Electronic Co., Ltd., Tianjin Carel Tech Co., Ltd., Wuxi Liou Electronics Co., Ltd., Shaanxi Shinhom Enterprise Co., Ltd., Thousand Hundred Industrial Co., Ltd., 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 Pin-type Zero-sequence Current Transformer 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 Pin-type Zero-sequence Current Transformer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Pin-type Zero-sequence Current Transformer Market, Segmentation by Type:

Single Sensing Winding

Sensing and Test Windings

Multi-Winding or Dual-Sensor Architecture

Others

Global Pin-type Zero-sequence Current Transformer Market, Segmentation by Rated

Primary Current:

Up to 30 A

Above 30 A to 63 A

Above 63 A to 125 A

Above 125 A

Global Pin-type Zero-sequence Current Transformer Market, Segmentation by Pin Configuration:

Two-pin plug-in Type

Four-pin plug-in Type

Multi-pin plug-in Type

Global Pin-type Zero-sequence Current Transformer Market, Segmentation by Application:

Smart Distribution Networks

New Energy Sector

Industrial Automation

Others

Companies Profiled:

YAGEO

Xiamen ZTC

Kohshin Electric

Taehwatrans

Shenzhen Deheng

Dechang Electronic Co., Ltd.

Tianjin Carel Tech Co., Ltd.

Wuxi Liou Electronics Co., Ltd.

Shaanxi Shinhom Enterprise Co., Ltd.

Thousand Hundred Industrial Co., Ltd.

SUNGHAN TRANSTEK CO., LTD.

Nippon Kyosenka Co., Ltd

Shivani Transformers

Key Questions Answered:

1. How big is the global Pin-type Zero-sequence Current Transformer market?
2. What is the demand of the global Pin-type Zero-sequence Current Transformer market?
3. What is the year over year growth of the global Pin-type Zero-sequence Current Transformer market?
4. What is the production and production value of the global Pin-type Zero-sequence Current Transformer market?
5. Who are the key producers in the global Pin-type Zero-sequence Current Transformer market?
6. What are the growth factors driving the market demand?

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