

About Us

Tianjin Sentinel Electronics Co., Ltd. (SENTINEL) was founded in 2008 and has been deeply engaged in China's industrial automation control field for over a decade. As a research-driven high-tech enterprise, SENTINEL has consistently focused on the development and production of industrial network distributed I/O and sensor products. It is one of the few domestic manufacturers dedicated to the research and development of Industrial Ethernet and fieldbus products.

We adhere to the business philosophy of "Innovation Drives Intelligent Manufacturing, Service Builds Trust," taking customer needs as our guide. Through continuous product refinement and technological upgrades, we strive to provide users with superior products, enhanced application experiences, and high-quality services.

Faster, more flexible, and more efficient production requires seamless communication from sensors to the Internet. SENTINEL offers a wide range of high-quality product options and comprehensive solutions. Our products are widely used in metallurgy, metal processing, construction machinery, machine tools, logistics and packaging, automotive and components manufacturing, and the new energy industry. With reliable product quality and attentive service, we have earned the trust and recognition of a broad customer base.

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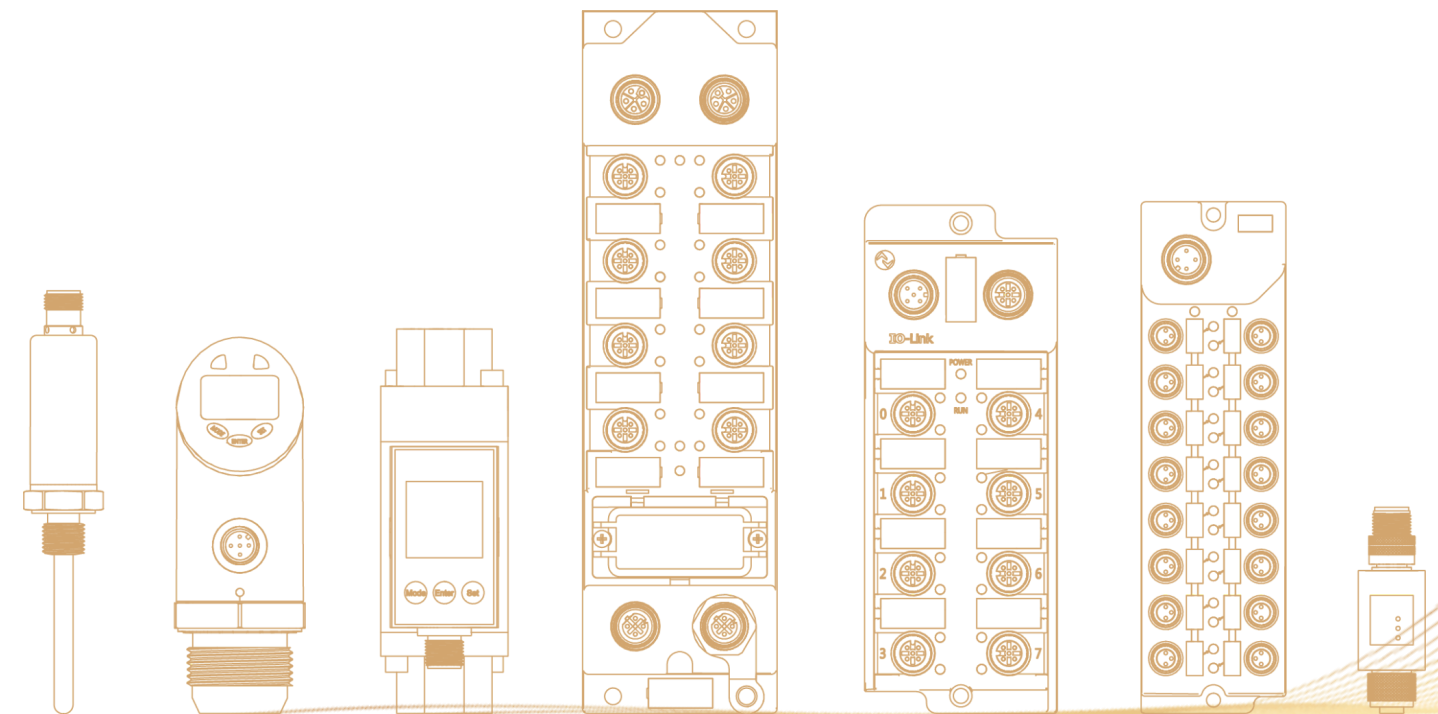
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*The appearance of the product is subject to actual product, Sentinel® has all right of the technical changes.



APPLICATIONS

- Automotive
- Powder Metallurgy
- Food Industry
- Vacuum Coating



创新驱动智造，用心服务客户

SENSING YOUR MIND!

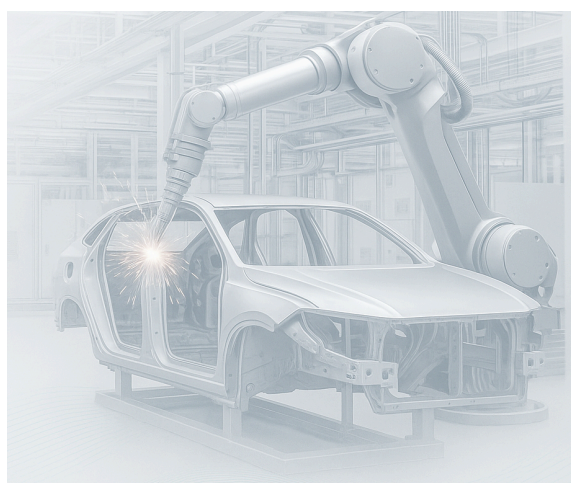
■ APPLICATIONS



Automotive



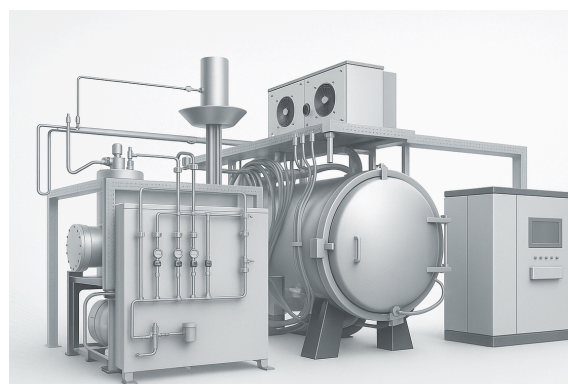
On automotive production lines, processes such as welding, painting, and assembly place extremely high demands on signal acquisition and real-time control. Sentinel, through IO-Link masters and sub-modules combined with a variety of industrial sensors, provides efficient and intelligent connectivity solutions for automotive manufacturing, helping enterprises enhance production stability, data transparency, and equipment efficiency.



Powder Metallurgy



The powder metallurgy industry places increasingly higher demands on the stability, efficiency, and intelligent management of sintering furnaces. To address these challenges, Sentinel Electronics offers a comprehensive solution through a series of sensors and signal acquisition systems, ensuring efficient operation and stable production of powder metallurgy furnaces.



Food Industry



The vacuum coating process demands strict environmental control—pressure fluctuations and cooling failures can compromise film quality. Sentinel's IO-Link-based intelligent solutions integrate pressure and flow monitoring to achieve real-time control of coolant and vacuum conditions, ensuring target stability and process reliability, thereby helping customers improve yield and production efficiency.



Vacuum Coating



In modern beer brewing, production automation and intelligence have become key means of improving quality and efficiency. From mashing, fermentation, and filtration to filling, each stage requires precise process control. Sentinel's IO-Link intelligent sensor series enables real-time data acquisition, remote monitoring, and smart adjustment, supporting breweries in building efficient and reliable automated production systems.

