

Safety & Explosion Protection

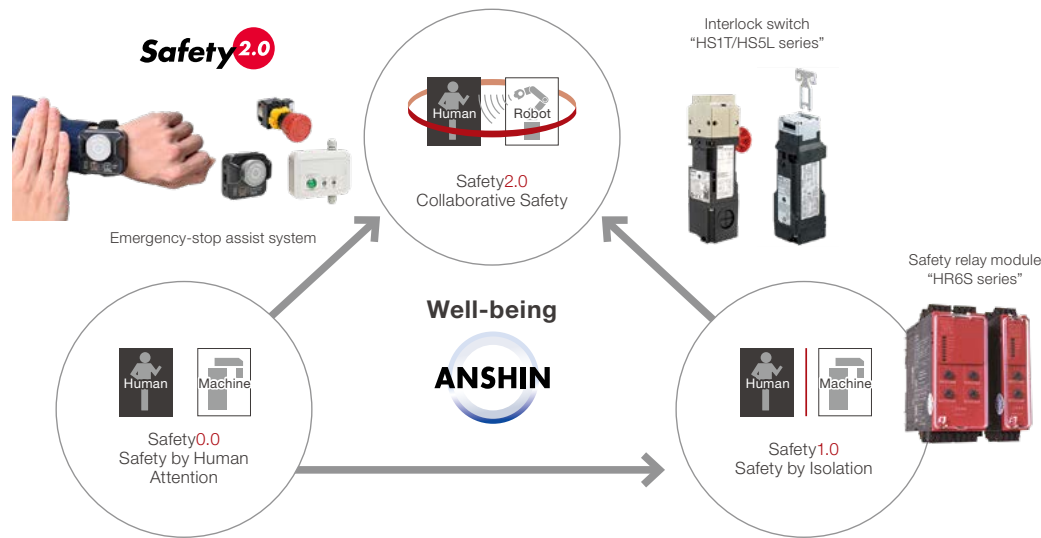
Priority business measures

Providing solutions that enhance safety and productivity

Since the founding, we have provided diverse products and services aimed at creating an optimum environment for humans and machines. At the same time, we have developed and supplied safety-related products that reduce the risks of using machinery, and explosion protection products that can be safely used in the presence of flammable gas and liquids. In so doing, we help customers to achieve both safer operations and greater productivity. As a developer and supplier of products that protect people's lives, we equip society with a variety of products and services for realizing safety and ANSHIN. Our goal is to pursue and achieve the world's highest level of safety, ANSHIN, and well-being.

A leader in collaborative safety (Safety2.0)

The concept of safety has evolved over the years. It started with the idea of achieving better safety through human attention and discernment, referred to as Safety0.0, which focused on making changes to machinery to protect workers, such as adding physical separation and stopping mechanisms. Now society has entered the era of collaborative safety (Safety2.0), where both safety and productivity are realized through collaborative relationships between humans and machines. The products we develop are designed to provide not only safety, but also ANSHIN. We strive to improve the well-being of society as a whole so that industrial workers and everyone else can live healthy, happy, and vigorous lives.



Pursuing safety and ANSHIN in the field

As the global market for safety-related products are expanding, particularly in China, due to the push for automation at manufacturing sites and increased awareness of occupational safety, we are investing in a wide range of new products.

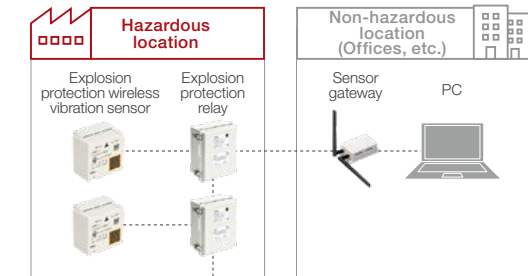
We released a short-body emergency-stop switch in December 2023 that employs IDEC's proprietary safety construction and conforms to the new ISO 13850 safety standard. We released an emergency-stop assist system in January 2024 which allows an emergency-stop to be triggered wirelessly via remote control even when the emergency-stop switch installed on an AGV, AMR or other equipment is not directly pressed. The ANSHIN sensor was also added to the line-up to support sites at which humans and robots work together.



Using IoT for predictive maintenance of facilities and equipment in explosion protection areas

The explosion protection areas of petroleum plants, chemical factories and other facilities face various issues. In addition to deteriorating equipment, it may not be possible to perform adequate maintenance due to personnel shortages or the decreasing number of skilled engineers. IDEC has a line-up of various products designed to improve on-site work efficiency with the use of IoT.

The wireless vibration sensor with an intrinsically safe explosion protected construction is designed to measure for predictive signs of equipment failure via a wireless network, thus enabling predictive maintenance. By using the sensor in combination with the explosion protection relay and sensor gateway, the time and man-hours taken for the maintenance and upkeep of equipment spread across a vast site can be significantly reduced and offer remote monitoring functions.



Team Member's Message



Expansion of the safety business in the Chinese market and the issues faced

Yoben Liu Strategic Sales Department, IDEC (SHANGHAI) CORPORATION

The Chinese industrial automation market faces issues with safety and the widespread adoption of explosion protection products, and customers' knowledge of these products is still insufficient. That's why we are implementing various activities such as stronger marketing campaigns to improve brand recognition, the provision of technical support and training, and appropriate pricing strategies. By optimizing our products and services in light of market needs and demand, we provide customers with more reliable and efficient safety and explosion protection solutions.