Automation & Sensing

Priority business measures

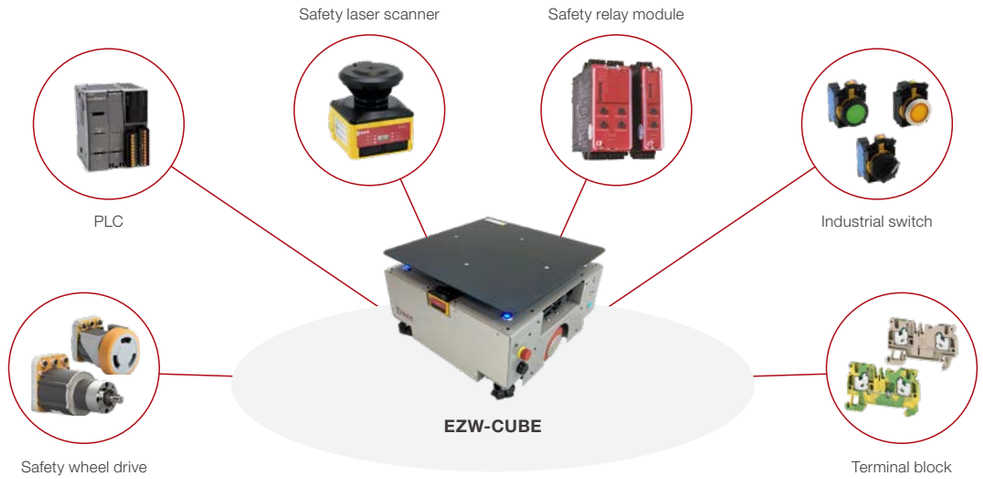
Offering optimum solutions matching the era of IoT and Industry 4.0

With the working population on the decline and the advance of IoT and other technologies, there is a growing demand for products that not only provide remote monitoring and operation, but also improve task efficiency or promote automation. As IDEC has stepped up its sales of solutions that can help customers to solve various issues they face, we are also working to enhance our line-up of automation and sensing devices that represent the key devices in this field.

We promote the automation and streamlining of production through a wide range of solutions, from programmable logic controllers (PLCs) that control machinery and production lines, sensors that detect state changes and objects, and automatic identification devices such as code readers that are experiencing growing demand for traceability applications.

To strengthen the solution business, we newly launched the EZW-CUBE, a development kit for AGVs and AMRs. This product was designed to enable actual use of the main function of ez-Wheel safety wheel drives. We also offer a package together with IDEC's HMI and safety-related products can be customized based on the customer's application.

Going forward we will help customers overcome their issues with an extensive product line-up and wide variety of solutions.



Strengthening the line-up of sensors to meet growing demand

IDEC is expanding its line-up of sensors to meet a diverse range of needs. We launched the "1A1M series" multi-use mmWave radar sensors developed by IDEC ALPS Technologies Co., Ltd. in 2023, achieving excellent detection and ranging performance even under poor conditions by applying technologies cultivated in the consumer and automotive markets to industrial equipment. We added new high-sensitivity model and new functions such as a moving object detection in 2024.

We also released the "SA1N series" miniature photoelectric sensor with built-in amplifier. The "SA1N series" is more compact than conventional photoelectric sensors, saving on space, cost and labor while contributing to the downsizing and increased functionality of equipment.

Multi-use mmWave radar sensor "1A1M series"

High-sensitivity model "1A1M-1A41/1D41"

Miniature photoelectric sensors with built-in amplifier "SA1N series"

Proposing optimum solutions with IoT-enabled products and functions

In recent years, with information being consolidated in higher-level controllers by connecting devices over networks and control panel equipment layouts becoming more decentralized, there has been a growing demand for remote I/O systems. To meet these needs, we released the bus coupler module "SX8R series", a key component of system construction. It is now possible to build a remote I/O system using the extensive range of I/O modules for the PLC "FC6A series" via the host controllers and industrial networks.

We have also released the "FT2J series", which integrates an operator interface and PLC and helps achieve IoT automation systems that take up less space, save on labor and are environmentally friendly.

Bus coupler module "SX8R series"

Controller with operator interface "FT2J series"

Manager's Message

Software development to meet customer needs in China

Junfeng Zhao General Manager, IDEC ELECTRONICS TECHNOLOGY (SHANGHAI) CORPORATION

Our company was in charge of software development for "FT2J series". Taking into consideration the convenience of customers, particularly customer needs in China who prioritize speed and cost, continuous improvements were made to reduce the software boot time in milliseconds.

Furthermore, various technological solutions were evaluated to ensure smooth and high-speed communication between the integrated operator interface and PLC, leading to the realization of the optimum solution. On the cost front, efforts are being made to clearly define specifications for the local market, pursue cost advantages, and shorten the development delivery time.