

New Products

Page 1 of 2

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wenglor Expands Product Portfolio with Industrial RFID

Industrial RFID Readers for Reliable Identification Solutions

With the release of the new industrial RFID readers, the wenglor sensoric group has expanded its product portfolio to include RFID systems. The RFID readers enable reliable and quick identification solutions at close range. Thanks to contactless communication between an RFID reader and an RFID transponder, production processes can be controlled, objects traced and inventory information gathered. Parameters can be changed easily and process data can be transmitted efficiently via the integrated IO-Link interface.

Industrial RFID readers emit electromagnetic waves that are picked up by a transponder. The signal returned is interpreted by the RFID reader and the information is processed. RFID systems make contactless data transfer and assignment completely reliable – thanks to a high degree of protection and temperature resistance even in challenging process environments. The portfolio also includes a selection of transponders.

High Process Reliability Thanks to Robust Design and Variable Functions

The robust design of the industrial RFID readers with a high degree of protection up to IP69K and temperature resistance of -25 °C to $+80\text{ °C}$ ensures high process reliability even in challenging process environments. The range includes cubic and metric designs for various applications. RFID readers enable secure data transfer by parameterizing RSSI values. The flexible configuration of alarm modes makes individual application solutions possible, while LED displays visible around them provide user-friendly visualization.

Wide Range of Applications for Industry 4.0

The RFID portfolio impresses when reading, comparing and writing data for applications in close range with ranges of up to 78 mm. There are many possible uses for identification solutions with RFID technology. An RFID transponder on the workpiece carrier always contains the current status of a component and thus enables intelligent production control. RFID systems are used, for example, in special machine construction, as they enable production-relevant data to be saved for each workpiece on the relevant workpiece carrier, enabling an efficient and workpiece-specific production process. In the food industry, RFID readers capture and collect production data throughout the production process to ensure batch traceability at all times. RFID systems are also used to monitor the internal flow of materials by enabling data collection of current inventories.

New Products

Page 2 of 2

The Highlights at a Glance:

- Reading, comparing and writing data for near-field applications with ranges of up to 78 mm
- High data transfer speed when writing and reading transponders
- Clear assignment of data for reliable identification solutions
- Parameterization of the RSSI value for secure data transfer
- Configuration of alarm modes for high process reliability
- User-friendly visualization thanks to LED displays visible all round
- High degree of protection up to IP69K and high temperature resistance of RFID readers for reliable use in the temperature range from -25 °C to $+80\text{ °C}$
- Simple operation through parametrization via IO-Link

Approximately 2,800 characters

Text: wenglor Public Relations Office

Image: wenglor

Captions

For reliable identification solutions: Industrial RFID readers from the wenglor sensoric group for unique assignment, tracking and identification of tagged objects.

About the wenglor sensoric group

The wenglor sensoric group develops innovative sensors, safety systems and machine vision products with intelligent interfaces and software for industry all over the world. Founded in 1983, wenglor is one of the world's key high-tech providers for the automated industry. The solutions of the wenglor sensoric group enable the trends of Industry 4.0 as well as the Internet of Things, 3D technologies, robotics and artificial intelligence (AI). In doing so, they conserve resources and increase the quality and safety of the manufactured products. The second-generation owner-managed family business is represented worldwide with 28 subsidiaries in 53 countries. In addition to the company headquarters in Tett nang, the group of companies with over 1,100 employees also develops and produces its multi-patented products in Munich, Berlin, Sibiu (Romania), Perth (Scotland), La Chevrolière (France) and Belgrade (Serbia).