New Products

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U2GT Full-Metal Ultrasonic Sensors in 316L Hygienic Design

Maximum Robustness for Food, Pharmaceutical and Chemical Applications

With the U2GT series of ultrasonic sensors, the wenglor sensoric group has developed a new hygiene product range specifically for the requirements of the food, pharmaceutical and chemical industries. The ultrasonic sensors presented in the high-grade stainless steel 316L housing have been specially optimized for measurement and detection tasks in hygienically demanding applications, as well as in washdown applications. The product series comprises a total of four ultrasonic sensors.

Both the housing and membrane of the U2GT series sensors are made of stainless steel, which makes them particularly resistant to aggressive cleaning agents, the use of high-pressure cleaners and complete rinsing processes.

Robust Housing for Certified Protection

Whether aggressive cleaning agents, harmful vapors from acids or direct contact with chemical media – the U2GT ultrasonic sensors are protected by their hermetically sealed stainless steel 316L housing (1.4404/V4A) and therefore have the highest protection classes IP68 and IP69K. This was made possible by numerous internal test series under extreme conditions as well as external certification procedures. All sensors in the series are also ECOLAB®* certified, which means they are resistant to cleaning agents, and meet all requirements of the US FDA** for the food industry.

Hard Shell, High-Performance Core

In addition to their extraordinary robustness, the sensors from the U2GT series also have impressive performance characteristics. While the distance sensors can map working ranges of up to 1,300 mm in reflex mode, distances of up to 2,600 mm are possible in through-beam mode. The sensors are available with switching or analog output. The U2GT series can be configured either via the IO-Link interface or via external teach-in. These features come into their own in the food, beverage, pharmaceutical and chemical industries, in particular for checking for presence, positioning, and continuous container level measurement.

The Highlights at a Glance

- Housing and membrane made completely of stainless steel 316L (1.4404/V4A)
- High IP68 and IP69K protection, high temperature resistance in the range of –30 °C to +60 °C, detergent-resistant thanks to ECOLAB® approval for reliable use in washdown areas and in harsh ambient conditions
- FDA compliant for use in the food industry
- IO-Link 1.1
- Large working range of up to 1,300 mm (reflex mode)
- Large working range of up to 2,600 mm (through-beam mode)

*ECOLAB®: International service provider for water, hygiene and infection prevention to protect people and vital resources. www.ecolab.com

** FDA: U.S. Food and Drug Administration. www.fda.gov

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Captions
Perfect for use in hygienically demanding industrial environments: The new U2GT full-metal ultrasonic sensors from the wenglor sensoric group in 316L hygienic design.

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 Tettnang, 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).

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