Press release

March 25, 2022

**Process-reliable profile identification**

The PS-30 profile sensor from di-soric stands for uncomplicated, precise measurement and inspection tasks

**With the new opto-electronic PS-30 profile sensor, di-soric is expanding its Machine Vision product range: The sensor is ready to use within just a few steps and can identify a variety of parts with its laser line scan. Up to ten target profiles make it possible to quickly and flexibly inspect and measure changing objects on one production line. Users profit from consistent product quality, high production efficiency and a reduced rejection rate.**

System operators depend on the fact that their products meet the required quality standards when it comes to assembly, handling, packaging, measurement and inspection processes. Faulty parts need to be detected early on and sorted out. Automatic inspection processes provide support in helping increase the overall efficiency of production processes. They provide timely indications of quality deviations and ensure that only OK parts are processed further.

The flexible, opto-electronic PS-30 profile sensor from di-soric can make precise measurements and handle inspection tasks in nearly all industries. The sensor is quickly ready to use right out of the box. The easy set-up is performed either via the teach keys and display on the sensor or via IO-Link. The bidirectional interface offers an attractive range of parameter and diagnostic options, including transparent status messages as well as simplified error analysis.

By means of the light section method, the PS-30 reliably detects the profile of objects and determines differences from 0.5 mm. However, the profile sensor doesn’t just check for the presence of an object: It also determines whether the actually intended workpiece is used and correctly mounted. The comparison of the actual height profile with the predefined height profile makes it possible to provide information about the correct assembly, use, orientation and processing of a component.

Two examples: A journal and ring must be subjected to a type verification and position determination prior to final assembly. After teaching the journal profile, both tasks can be handled by the PS-30. When a supplier wants to ensure that welded-on nuts are in the correct location and position on a profile carrier, the profile sensor checks for the presence of the nuts as well as checks their position in the x and z directions. The results are transmitted as an OK/NOK result via IO-Link or via the digital IO interface.

This versatile profile sensor can be quickly set to variable detection tasks. The PS-30 is also highly immune to ambient light, and requires neither shielding nor external illumination. The distance- and color-independent measurement enables high tolerances for object positioning. As with all other sensors of the Machine Vision series from di-soric, the PS-30 profile sensor can handle even the toughest customer requirements.

Characters: 2965

Images:

Ein Bild, das drinnen enthält.

Automatisch generierte Beschreibung  
Image 1: Welding nuts inspection with the PS-30: The di-soric profile sensor checks for the presence of the nuts and compares their position in the x and y directions with a previously learned pattern.

Ein Bild, das Text, Anzeige, Parkplatz, Elektronik enthält.

Automatisch generierte Beschreibung

Image 2: The opto-electronic PS-30 profile sensor is ready to use right out of the box. The set-up is performed either via the teach keys and display on the sensor or via IO-Link.

**More information:** www.di-soric.com

Our family-run company group has been an established manufacturer in the area of industrial automation for almost 40 years now. We develop, manufacture and sell a broad spectrum of innovative sensors, high-performance image processing components, high-quality LED machines and signal lighting, as well as products from the area of security technology. Our wide range of products is rounded off with our flexibility for customer-specific solutions.

Our products are primarily used in the areas of assembly & handling, robotic systems, packaging, machine tools and measurement & testing. And here we focus on the automotive, food & beverage, pharma & cosmetic and electronics industries.

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