

Press release

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Precise detection with the highest resolution

di-soric: multifunctional ring sensors optimize assembly process

The new inductive ring sensors in the IRSD series by di-soric can detect the smallest metal parts precisely and reliably. IP67 protection type industrial ring sensors are primarily used with supply tubes in wide parts within the assembly and handling technology. The sensors, which are available in eight sizes, can fit in almost any application. Users either set the multifunctional ring sensors directly on the device, via a teaching line, or remotely via an IO-Link. Furthermore, the digital interface provides the user access to the complete spectrum of digitized parameterization and diagnosis in ongoing operation.

The occasional supply of very small objects of low mass via tubes is now common practice in automated manufacturing processes. In the context of downstream working and assembly steps, parts must be detected and counted. Using optimized coil winding, the inductive ring sensors in the IRSD series by di-soric achieve above-average resolution. In the case of parts that are fed quickly, the integrated pulse stretching generates an output signal that can be easily analyzed. The effective shielding makes the robust ring sensors immune to external influences. Even in dirty environments, users can count on reliable results.

Without mutual influence, the innovative ring sensors with their switchable working frequencies, can also be installed directly next to each other. With 16 variants, 8 sizes and detection ranges between 6 mm and 50 mm, there are enough options for almost any feed application, even under narrow

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installation conditions. Users will find the familiar, user-friendly di-soric setting and teaching concept in the IRSD series.

Furthermore, the digital interfaces offer users a variety of process-optimizing parameterization and diagnostic options. The multifunctional ring sensors can be precisely and easily adapted to customer-specific tasks: For example, they make it possible to choose between NO/NC, static and dynamic switching principle, differential mode (push-pull), pnp and npn in a targeted manner. The autoteach/Intelliteach function enables teach-in of falling and quickly passing objects. The diagnostic function Stability, which displays when object detection is impaired by soiling, for example, is also helpful. The new inductive ring sensors in the IRSD series by di-soric offer a reliable and practical solution for almost any application case.

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Images:



Image 1: From large to very small: the robust, multifunctional inductive ring sensors in the IRSD series by di-soric are available in 8 sizes with detection ranges between 6 mm and 50 mm.



Image 2: The new inductive ring sensors in the IRSD series by di-soric can detect the smallest metal parts precisely and reliably—even at high speeds and in dirty conditions.

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More information: www.di-soric.com

Our family-run group of companies has been an established manufacturer in the area of industrial automation for over 40 years now. We develop, manufacture and sell a broad spectrum of innovative sensors, high-performance image processing components, and high-quality LED machines and signal lighting,. Our wide range of products is rounded off with our versatility 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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