

Press release

July 01, 2023

Object detection in free fall

New IO-Link frame light barriers detect small and larger objects quickly and in a process-reliable manner

The new frame light barriers from the OGWTI and OGWSD series from di-soric in fork and frame construction primarily detect falling objects. They perform counting tasks and moreover are also suited for position-independent, functionally reliable presence, feature and position checks. As currently the only frame light barriers with an IO-Link interface, they offer users diverse options for implementing intelligent and process-reliable system concepts. Based on the precise coordination between transmitter and receiver, these sensors, which are available in four or eleven sizes, depending on the design, can be installed quickly and are operational within a very short period of time. In the dynamic sensor mode, their functional safety is ensured even in case of extremely heavy soiling.

With their high resolution, these frame light barriers, available in four (fork) and seven (frame) design sizes, recognize objects starting from a diameter of 0.7 mm in the entire detection range. With short activation times of 0.05 ms, they are suited for a wide range of counting and checking tasks in different areas of industry.

As a compact, open fork construction without impact resistance and crossbar with detection ranges of 30 x 30 mm to 100 x 100 mm, the OGWTI series tends to be used most often within machines and on conveyor belts. The typical areas of application are assembly, packaging, measuring and testing.

With its closed and more robust frame construction, the OGWSD series has impact protection and a removable crossbar, and is preferred for use outside of machines, primarily in material supply and removal. With detection ranges of 25 x 22 mm to 300 x 388 mm, it is typically used in the packaging industry, the tool industry and the mechanical engineering industry.

Both series detect very small and quickly moving objects within their entire detection range in a process-reliable manner. The dual di-soric operating concept provides users with simple setting and commissioning options via IO-Link. Alternatively, the frame light barriers can also be adjusted directly at the sensor either via two buttons (OGWTI series) or via four potentiometers (GWSD series).

With IO-Link, diverse options for sensor identification, configuration and diagnosis can be implemented as needed and efficient system solutions can be realized. Within the meaning of “predictive maintenance,” these innovative frame light barriers guarantee functional safety in ongoing operation, e.g. via the “stability” diagnostic value. The sensor displays its degree of soiling automatically, and cleaning cycles can thereby be planned in advance.

These durable frame light barriers have a robust, fully encapsulated metallic housing with stable M8 metal plug connectors. With a device length of only 15 mm or 12 mm, the new di-soric frame light barriers require only a small amount of installation space.

Characters: 3,022

Images:

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Figure 1: di-soric frame light barriers are ideally suited for counting processes and area detection. The high resolution and ultra-fast reaction time enable process-reliable solutions.

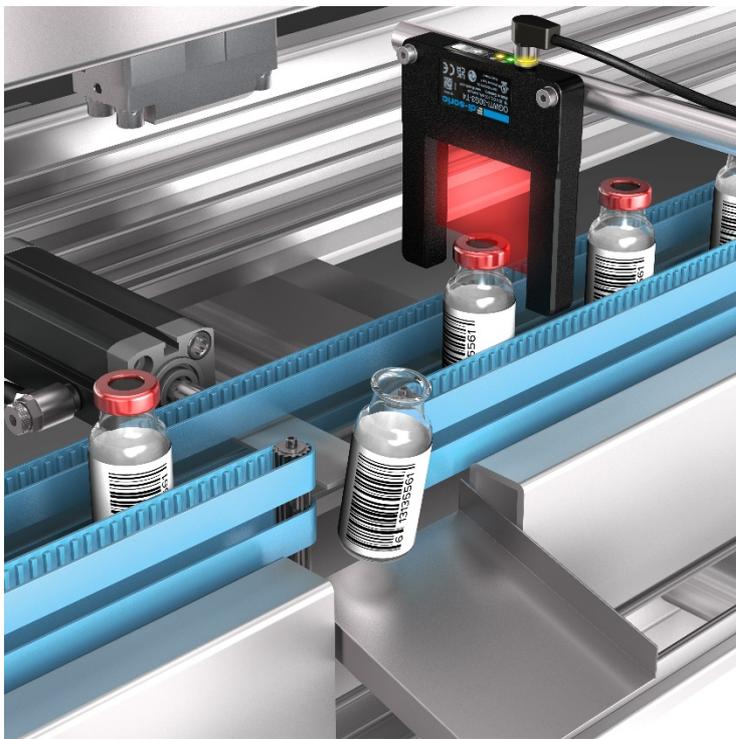


Image 2: The OGWTl checks whether the cap is present at high speed. A format conversion to new containers is possible within a few seconds.

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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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