# Press Release

# Absolute hygiene in stainless steel

Two new sensor series in miniature stainless steel housing: Leuze has developed the 53C and 55C series especially for hygiene-sensitive production and packaging processes.

*Owen, May 12, 2023 –* Whether cheese, drinking water or vaccines: When packaging or filling foodstuffs or pharmaceuticals, the highest requirements apply to hygiene and the cleaning of the system. With the 53C and 55C series, Leuze has developed sensors that are ideally suited for hygiene-sensitive production and packaging processes. They are characterized by the housing made of high-quality, particularly smooth V4A stainless steel and the glass-free, scratch-resistant optics cover. The sensors can thus withstand demanding cleaning and disinfection cycles as well as large temperature fluctuations.

**Precise at all times**

With the 53C and 55C series, system operators get flexibly applicable sensors in the form of throughbeam photoelectric sensors, retro-reflective photoelectric sensors or diffuse sensors. Depending on the model, Leuze solutions reliably detect glass, PET, film or small parts. The fill level of aqueous liquids can also be easily detected. The new 53C and 55C sensor series are dust-proof and waterproof and meet the requirements of protection classes IP67, IP68 and IP69K. Useful: The sensors can be configured, operated and maintained via IO-Link.

**No chance for bacteria**

For wet areas, Leuze has developed the 55C series in a Wash-Down design. Optics and operational controls are made of non-diffusive and chemically-stable materials. A gap-free design contributes to maximum hygiene.   
The sensors of the 53C series have a HYGIENE design: The housing is consistently designed to prevent bacterial contamination. Smooth contours without fastening holes prevent deposits. A special fastening concept also contributes to this: The sensor and the machine have a gas-tight connection via the mounting trunnion. The 53C series is suitable for particularly hygiene-sensitive areas with direct contact with food or for installation above unpackaged products.

Characters: approx. 2,137  
   
A file copy is requested.  
Interviews gladly arranged on request.

**Pictures**



Figure 1: The 53C and 55C sensor series from Leuze are suitable for hygiene-sensitive production and packaging processes. They are characterized by a special design as well as a high leak tightness and resistance to cleaning agents.

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Figure 2: Leuze 53C series diffuse sensors have a HYGIENE design without drilled holes and are suitable for areas of application with direct contact with food. They also reliably detect the leading edges of cut-good products.



Figure 3: Reliably detecting the fill level of aqueous liquids in containers is one of the most demanding detection tasks. This requires particularly powerful sensor solutions such as the throughbeam photoelectric sensors of the 55C series from Leuze, which have been specially optimized for this application.

*With curiosity and determination, the Sensor People from Leuze have been creating innovations and technological milestones in industrial automation for 60 years. They are driven by the success of their customers. Yesterday. Today. Tomorrow. The technology leader’s high-tech product range includes a number of different sensors for the field of automation technology. Among these are switching and measuring sensors, identification systems, and data transmission and image processing solutions. As a Safety Expert, Leuze is also focused on components, services and solutions for safety at work. Leuze concentrates on its core industries, in which the Sensor People have extensive, specific application know-how and many years of experience. These include intralogistics and the packaging industry, machine tools, the automotive industry as well as laboratory automation. Leuze was founded in 1963, headquartered in Owen/Teck in Southern Germany. Today there are about 1600 Sensor People around the world who are working with determination and passion for progress and transformation to* *make their customers successful in a constantly changing industry. Regardless of whether in the technological competence centers or in one of the 21 sales companies, supported by more than 40 international distributors.*  [www.com.com](http://www.com.com)

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