# Press release

# To the Point

Leuze launches first ever sensors with Power PinPoint LED. The optical sensors can be commissioned easily and provide particularly reliable object detection thanks to the innovative light source technology.

*Owen, 8 November 2024 –* Aligning and commissioning a lot of sensors in one system is often very time-consuming. The Power PinPoint LED from Leuze now makes this much quicker and easier: The sensors’ light-emitting diode emits the maximum light power from a very small surface. The Power PinPoint LED generates a light spot that maintains its size, shape and homogeneity over the sensor's entire working range. System operators thus benefit from particularly simple commissioning. The technology also increases process reliability through precise detection. The innovative light source is available for the first time with Leuze’s new 33C and 35C sensor series as well as the 25C, 3C and 5B diffuse sensor series.

**Small, bright and precise**

Sensors with Power PinPoint LEDs generate a small, round light spot with sharply defined contours.

*This gives the sensors extremely reliable detection capabilities and enables precise start and end detection of an object with pinpoint response behavior during object tracking.* Even small objects are optimally detected by sensors with Power PinPoint LED thanks to their precise response behavior. Sensors with the new light source technology can therefore also be used as an alternative to diffuse sensors in some cases. Another advantage: Retro-reflective sensors with Power PinPoint LEDs have higher function reserves for applications with small reflectors and large distances. Operating several throughbeam photoelectric sensors in parallel increases detection reliability as their compact light beam minimizes diffused light. The Power PinPoint LED also reduces reflection bypasses to ensure highly reliable detection.

**Power PinPoint LED in stainless-steel sensors**

The Power PinPoint LED is already used in the 33C and 35C sensor series, among others. Both series’ ranges include diffuse sensors, retro-reflective sensors and throughbeam photoelectric sensors in smooth stainless-steel housings. These are particularly suitable for hygiene-sensitive production and packaging processes. System operators can therefore use them for almost all applications in harsh, wet or hygiene-sensitive environments. The sensors can withstand high mechanical loads and intensive cleaning processes. The 33C and 35C series also include special solutions for packaging processes – including sensors for detection through film, clear glass or PET.

Characters: approx. 2,651  
   
Please send a sample copy.  
Interviews available upon request.

**Image material**

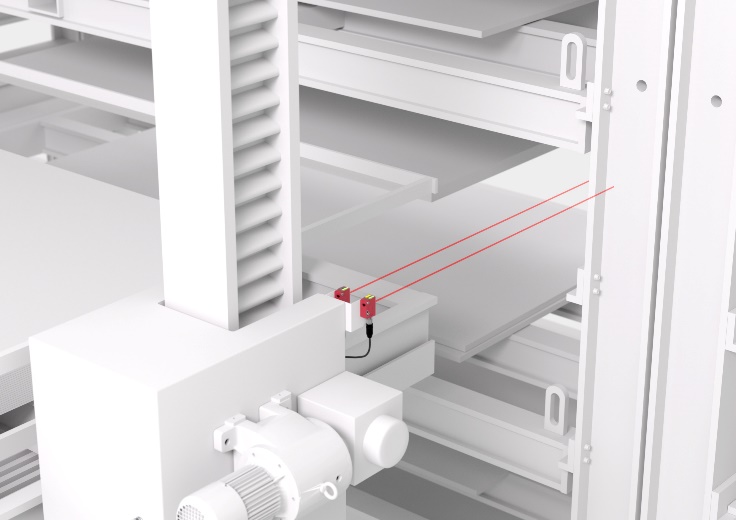


Figure 1: The Power PinPoint LED from Leuze emits the maximum light power from a very small surface. The new light source technology can be used to finely position stacker cranes, among other things, using diffuse reflection sensors.

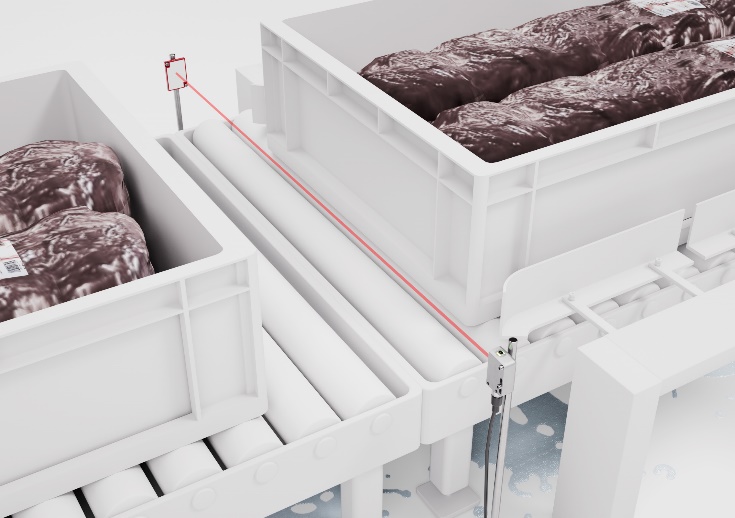


Figure 2: Retro-reflective photoelectric sensors achieve a higher function reserve with Power PinPoint LEDs, especially with small reflectors. Retro-reflective photoelectric sensors with Power PinPoint LEDs are ideal for object detection in harsh food industry environments.

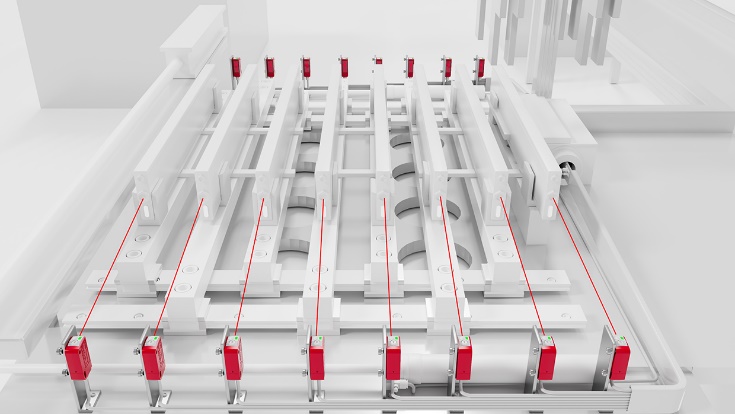


Figure 3: Throughbeam photoelectric sensors also demonstrate the innovative light source’s strengths. Sensors with the Power PinPoint LED provide extremely reliable detection even in confined spaces – for example battery cells in a filling station.

*With curiosity and determination, the Sensor People at Leuze have been creating innovations and technological milestones in industrial automation for over 60 years. They are driven by the success of their customers. Yesterday. Today. Tomorrow. The technology leader's high-tech portfolio includes a wide range of different sensors for automation technology. For example, switching and measuring sensors, identification systems, solutions for data transmission and image processing. As a safety expert, Leuze also focuses on components, services and solutions for occupational safety. Leuze concentrates on its focus industries in which the Sensor People have in-depth, specific application know-how and many years of experience. These include intralogistics and the packaging industry, machine tools, the automotive industry and laboratory automation. Leuze was founded in 1963 at its headquarters in Owen/Teck, southern Germany. Today there are more than 1,600 Sensor People around the world who are working with determination and passion for progress and transformation. Our aim is to make our customers successful in a constantly changing industry. Be it in the technological competence centers or in one of the 21 sales companies, supported by over 40 international distributors.* [*www.leuze.com*](http://www.leuze.com)

**Leuze electronic GmbH + Co. KG T** +49 7021 573-0 Press enquiries: Martina Schili

In der Braike 1 **F** +49 7021 573-199 **T** +49 7021 573-116

73277 Owen info@leuze.com martina.schili@leuze.com

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