# Press release

# Laser precision

Leuze rounds off its laser scanner portfolio: The ROD 300 and ROD 500 series measuring laser scanners are complemented by the new ROD 100 series switching devices. These detect objects precisely and are ideally suited for collision protection tasks.

*Owen, October 6, 2025* – The Sensor People from Leuze present the new ROD 100 series, rounding off their laser scanner portfolio with LiDAR technology. The switching sensors reliably detect one or more objects. They can also be used for collision protection on automated guided vehicle systems (AGVs). They thus complement the ROD 300 laser scanner series’ measuring devices, designed for efficient contour measurement, and the ROD 500 series for exact AGV navigation. System operators thus benefit from tailor-made solutions for diverse applications in industrial production and intralogistics.

**High scanning frequency of 80 Hz**

The ROD 100 series laser scanners stand out for their scanning frequency of 80 Hz at an angular resolution of 0.2°. This allows high traverse and transport speeds, for example in fast-moving AGVs. The high switching frequency also ensures precise and reliable object detection on conveyor lines. With their three independent outputs, the laser scanners enable multiple presence checks at the same time. Users can adjust the ROD 100 series’ detection ranges via 16 switchable configurations and thus adapt them to different object sizes, for example. All directions of travel can be mapped and monitored on automated guided vehicles (AGVs) with the ROD 100 series’ devices. This allows the system to be used in complex and dynamic environments.

**Avoid failures**

Predictive maintenance offers practical advantages: The ROD 100 series’ laser scanners continuously monitor their viewing window to detect soiling early. If a defined threshold value is exceeded, a maintenance message is automatically sent. This type of predictive maintenance contributes to high system availability.

**Reliable from freezing to hot**

All devices in the ROD series are designed to be robust thanks to their protection class IP 67, resistant housing and wide temperature tolerance. They always work reliably even in demanding environments from -30°C to +60°C. This makes the laser scanners ideal for use in deep-freeze applications. They are also suitable for high temperatures, such as those found in battery production. The laser scanners’ compact design also offers advantages in intralogistics: With dimensions of around 80 x 80 x 85 millimeters, the sensors can be integrated even into small installation spaces in mobile vehicles.

Characters: approx. 2,595  
   
Please send a sample copy.  
Interviews available upon request.

**Image material**

**Ein Bild, das Text, Flasche enthält.

KI-generierte Inhalte können fehlerhaft sein.**

Figure 1: The ROD 100 series’ switching laser scanners are ideal for precise detection of one or more objects as well as for collision protection tasks. System operators can choose the optimal solution for their application from the three series ROD 100, 300 and 500.

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Automatisch generierte Beschreibung

Figure 2: Thanks to their compact design, the ROD 500 series laser scanners can be integrated perfectly into small installation spaces in mobile vehicles and in applications where space is limited.

**Ein Bild, das Badewanne, Im Haus, Design, weiß enthält.

Automatisch generierte Beschreibung**

Figure 3: The ROD 100 series devices can be used flexibly – for example, to detect a displaced load on an AGV.

Ein Bild, das Wand, Design, Im Haus, Ausstellung enthält.

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Figure 4: Thanks to the high scanning frequency of 80 Hz, the ROD 100 series laser scanners are very suitable for use in dynamic applications – especially for collision avoidance in fast-moving FTS.

*With over 60 years of experience, Leuze has become an expert in innovative and efficient sensor and safety solutions in automation technology. Today, around 1,600 Sensor People worldwide use curiosity, passion and determination to drive progress and change. Their motivation is the lasting success of their customers in a constantly changing industry. Leuze offers its customers an individual competitive advantage through intuitive and reliable solutions for safe and non-safe position detection. For example, switching and measuring sensors, identification systems, solutions for data transmission and image processing. As a family-owned company and safety expert, the company also focuses on components, services and solutions for occupational safety. Thanks to their broad and in-depth application expertise in the machine and system construction, the Sensor People are a competent and flexible partner for customers with a wide range of industrial requirements.* [www.leuze.com](http://www.leuze.com)

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