# Press release

# New RFID readers for production and logistics

Leuze is expanding its RFID portfolio with the new RDH 300i and RDU 500i series readers. With operating ranges of up to 2 meters, they offer supreme flexibility when it comes to production and logistics. Particularly robust data carriers round off the portfolio.

*Owen, September 1, 2025* - Seamless traceability on automated production lines requires sensor technology that is powerful, robust and doesn’t take up huge amounts of space. Leuze is therefore expanding its portfolio and presenting a new generation of RFID readers that meet these requirements in every respect: The RDH 300i series operates in the high frequency range (13.56 MHz), while the RDU 500i series is used in the ultra-high frequency range (865-868 MHz). The devices impress with their long reading ranges, compact designs and particularly simple integration. Resistant to temperatures as low as -32 °C, the RFID readers are also ideal for use in deep-freeze warehouses.

**RDH 300i: high-frequency identification with an Ethernet interface**

The devices in the RDH 300i series have a reading range of up to 200 millimeters. Smooth, fast data transmission to controllers and host systems is achieved via Ethernet TCP/IP, and there are more interfaces in the pipeline.

**RDU 500i: ultra-high frequency with a reading range of up to two meters**

UHF readers are ideal for even greater operating ranges, simultaneous detection of several objects, and fast data transmission. These operate in the ultra-high frequency range. Leuze presents its particularly powerful UHF RFID readers in the RDU 500i series: These can be used in a logistics environment as well as on conveyor lines or directly on the production line. The RDU 500i series has a reading range of up to two meters. The devices can identify several objects at the same time. System operators can conveniently set all important parameters via an integrated web server.

The new devices in the RDH 300i and RDU 500i series complement the existing portfolio of the RDH 100 / RDH 200 series, making it into a complete versatile and powerful RFID product family.

Characters: approx. 2,400  
   
Please send a sample copy.  
Interviews available upon request.

**Image material**

Ein Bild, das rot, Design enthält.

KI-generierte Inhalte können fehlerhaft sein.

Figure 1: The devices in the RDH 100, RDH 200 and RDH 300i series operate in the high-frequency range. They stand out for their high reading range, compact design, and easy integration into control systems.

Ein Bild, das Stecker, Design enthält.

Automatisch generierte Beschreibung mit mittlerer Zuverlässigkeit

Figure 2: Leuze offers particularly powerful ultra-high-frequency RFID readers in the RDU 500i series: These can be used in a logistics environment as well as on conveyor lines or directly on the production line.

**Ein Bild, das Maßstabsmodell, Maschine, Im Haus enthält.

Automatisch generierte Beschreibung**

Figure 3: Space is usually tight in production cells. That’s not a worry with the RFID readers from the RDH 200 series. They are extremely compact and can be installed very quickly thanks to their flexible mounting options.

Ein Bild, das Design, Kopierer, Im Haus enthält.

Automatisch generierte Beschreibung

Figure 4: With its integrated fieldbus interface and a reading range of up to two meters, the RDU 500i series is ideal for production processes – for example, for detecting high-temperature UHF transponders on car bodies.

Ein Bild, das Buch, Im Haus, Regal, Design enthält.

KI-generierte Inhalte können fehlerhaft sein.

Figure 5: Thanks to an operating temperature range down to -32°C, the RFID readers are also suitable for intralogistics in deep-freeze areas.

*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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