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SensoPart Industriesensorik GmbH| Web: www.sensopart.com
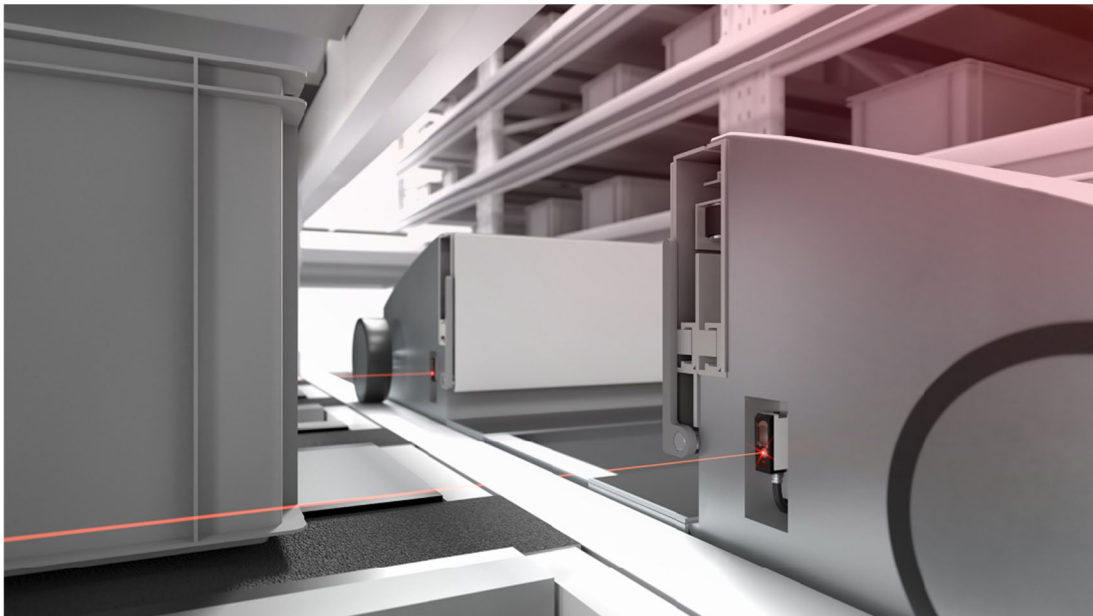Marius Westermann | Phone: +49 7673 821-0| E-mail: presse@sensopart.de

Information from SensoPart Industriesensorik GmbH, Gottenheim near Freiburg/Breisgau

SensoPart Launches Compact Long-Range Time-of-Flight Sensor for Precise Distance Measurement

Gottenheim, Germany - 2025 - SensoPart is expanding its family of miniature sensors with the launch of the new FT 25-RLAP time-of-flight sensor, combining precise distance measurement up to 1.5 meters with a compact, space-saving design. Built for demanding industrial environments, the FT 25-RLAP offers a powerful set of features including analog output, IO-Link communication, and exceptional background suppression - all in a housing measuring just 34 x 20 x 12 mm.

Precision Even in Challenging Environments

Using proven time-of-flight (ToF) technology, the FT 25-RLAP accurately measures distances regardless of the object's shape, color, or surface finish. Even reflective vests, flashing signal lights, or shiny metal backgrounds won't interfere with its performance. The result is consistent, reliable measurement data that enhances process stability in automation systems.

Built-In Intelligence for Maximum Flexibility

The FT 25-RLAP includes both an **analog output** and a **switching output**, which can be configured independently using the integrated pushbutton. The analog output is scalable between 1–10 V using two teach points, while advanced setup and diagnostics are available through the latest IO-Link specification (v1.1.4).

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Other smart features include:

- Window mode to mask out irrelevant distance ranges

- Offset teach to set new reference points for quick reconfiguration

These functions make the FT 25-RLAP a highly adaptable solution for changing application needs.

Compact Design, Easy Integration

SensoPart has successfully packed advanced time-of-flight technology into an ultra-compact housing—measuring just 34 x 20 x 12 mm. This miniature size makes it easy to install the sensor in tight spaces or compact machine layouts. A clearly visible, high-precision light spot simplifies alignment during setup, while its Class 1 laser rating ensures safe operation without the need for additional protective measures.

Future-Ready with the Latest IO-Link Technology

Alongside its analog and switching outputs, the FT 25-RLAP features an IO-Link interface compliant with the latest 1.1.4 specification. This ensures seamless integration into today's automation environments and unlocks advanced configuration, diagnostics, and monitoring capabilities—supporting smarter process control and predictive maintenance.

Ideal for a Wide Range of Industrial Applications

Whether in logistics, robotics, or automated manufacturing, the FT 25-RLAP offers reliable performance in critical tasks such as:

- **Positioning containers, boxes, and totes** in AS/RS and intralogistics systems

- **Object detection and part localization** in robotic gripping and picking

- **Precise alignment and distance control** in assembly and handling systems

- **Reliable measurement** in automated packaging or automotive production

The FT 25-RLAP is the ideal solution wherever space is limited and precision is essential.

Availability and Additional Information

The new FT 25-RLAP miniature time-of-flight sensor is now available. For technical specifications, integration guidelines, and application examples, visit www.sensopart.com.

About SensoPart Industriesensorik GmbH

SensoPart develops, manufactures, and distributes a wide range of innovative sensors for factory automation. The company specializes in optoelectronic sensors and vision sensors, which are used in industrial applications such as object and color detection, distance measurement, code reading, and robotics. All products are developed and manufactured in Germany at SensoPart's facilities in Gottenheim (near Freiburg) and Wieden in the southern Black Forest. With eight subsidiaries and a global network of more than 40 international sales partners, SensoPart serves customers around the world.

Founded in 1994, this family-owned, mid-sized company is known for its flexibility, innovation, and high-performance solutions. SensoPart has earned numerous industry accolades, including first place in the Automation Award and multiple honors from the German Sensor Application Award.

For more information, visit: www.sensopart.com