Press Release

Symeo at LogiMAT

Radar as a fail-safe for functional safety in logistics

Neubiberg, Germany, 3 February 2025 – Industrial radar systems specialist Symeo GmbH will be presenting pioneering developments in radar technology at LogiMAT, Stand C67 in Hall 4, Messe Stuttgart. The exhibition at the trade fair held from 11 to 13 March 2025 will focus on the innovative LPR®-SAFE system as well as other products. This system is the only industrial radar solution that measures distances for functional safety compliant with EN ISO 13849 PLd. A demonstrator of the LPR-SAFE will show how the system works, which is expected to be available commercially as of mid-2025 once certification has been completed. Another highlight at this year’s LogiMAT stand, which Symeo is sharing with its long-standing Austrian sales partner ABF GmbH, is the LPR-1DHP-350 radar sensor with added bidirectional functionality.

For decades, Symeo’s patented radar systems have proven their worth in a wide range of logistics environments, preventing collisions between cranes and loads, for example. With LPR-SAFE, Symeo is now expanding the functionality of existing systems to ensure even higher safety standards. The system, which is certified compliant with the EN ISO 13849 PLd standard, enables reliable distance measurement based on redundant radar sensors. LPR-SAFE provides manufacturers with a certified solution for developing functionally safe lifting equipment installations. The Symeo solution is based on an EN ISO 13849 PLd-certified function block on a fail-safe PLC combined with the redundant measurement of distances using radar sensors.

**Retrofitting Functional Safety**

A major advantage of this approach is that the solution can be retrofitted in systems where the Symeo LPR-1DHP-291 (60 GHz) or LPR-1D24 (24 GHz) radar sensors are already in use. This only requires another pair of sensors for redundant measurement and the fail-safe Siemens S7 PLC with the certified function block, which compares the distance measurements and flags them as functionally safe if they match.

**Bidirectional Secondary Radar**

Another innovation Symeo will present is the bidirectional LPR-1DHP-350 radar sensor. Previously, secondary radar applications required fixed roles coordinated between the master and slave sensor, which meant that measurement data was only available on the master side. The new feature allows the sensors to automatically switch roles, making the measured values available on both sides. This opens up a convenient option for implementing simple anti-collision solutions between two crane bridges on one level, for example.

**Available image material**

The following printable images are available for download on the Internet:
<https://kk.htcm.de/press-releases/symeo/>

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| Ein Bild, das Screenshot, Text, Design enthält.  Automatisch generierte Beschreibung Image source: Symeo**How LPR-SAFE works: A safe distance value is determined by comparing two measured values in the function block.** |

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**Symeo**

Symeo develops and markets products and solutions for precise, non-contact, maintenance-free position detection, distance measurement, and collision avoidance. Symeo’s products feature extremely robust designs to make them suitable for applications in harsh industrial environments.

Symeo’s LPR® locating technology offers a wireless and real-time-capable measuring system that is ideally suited for industrial applications. Symeo has many years of experience in the development of cost-efficient and customer-specific industrial solutions on the basis of LPR® technology.

The company delivers standardized products and complete solutions to system integrators, original equipment manufacturers (OEMs), and end customers worldwide.

Headquarters: Symeo GmbH, Prof.-Messerschmitt-Strasse 3 a, 85579 Neubiberg, Germany
Phone: (+49-89) 6607-7960, Fax: (+49-89) 66077-96190
E-mail: info@symeo.com, Website: [www.symeo.com](https://www.symeo.com/en/)

**Press contact:**

HighTech communications GmbH
Marcus Planckh
Brunhamstrasse 21 (Building 202/2nd floor)
81249 Munich
Germany

Phone: (+49-89) 500-77822
E-mail: m.planckh@htcm.de
Website: www.htcm.de