

PRESSEINFORMATION PRESS RELEASE COMMUNIQUÉ DE PRESSE

BALLUFF

Position measuring system from Balluff

Precise positioning, even at long distances

When measuring position and speed in industry, sensors have to cope with harsh conditions. The new position measuring system from Balluff delivers absolutely precise results even under these circumstances and over long distances.

Crane systems are used throughout the world in industry for transporting goods in intralogistics, warehouses and production processes. Laser sensors are usually used to determine the correct position and avoid collisions between cranes. However, the loads are high, and the places of use are sometimes very dirty or outdoors. "That's where laser-based systems quickly reach their limits," says Balluff Product Manager Waldemar Götte. With the [Long Distance Positioning System \(LDPS\)](#), Balluff has developed a magnetostrictive position measuring system that performs position and speed measurements with high precision – even under harsh conditions. "The LDPS can determine positions over distances of several hundred meters with a repeatability of 0.5 millimeters," explains Götte. "Therefore, the system is best suited for applications on overhead cranes, loading bridges, gantry cranes, reversing controls or for crane and trolley travel."

Precisely determined, absolute positions

The magnetostrictive position measuring system with Profinet interface consists of a sensor that measures lengths between 2 and 4.5 meters in 500 millimeter increments and an associated software module. The distance is measured by several positioning sensors installed along the crane travel path, whose position is read by means of a magnetostrictive sensor mounted on the crane and transmitted to the control system. The absolute coordinates of the crane position are calculated with high accuracy using the read positions. "You don't need a continuous slideway for the measuring section, which ensures maximum flexibility in planning and installation," says Götte. The system can be easily integrated into the control system using the software function module, and the data is also visualized using software included in the system. "At the same time, the LDPS operates wear- and maintenance-free because it is unaffected by shock, vibration and contamination."

New position measuring system from Balluff

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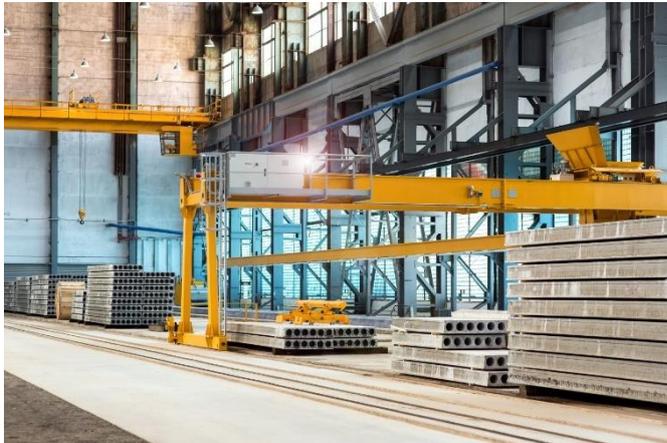
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Caption:

Crane systems are used to transport goods, in warehouses and in production processes. In order to precisely determine their position and avoid collisions, the Long Distance Positioning System (LDPS) from Balluff provides precise location and speed data

Meta description:

The magnetostrictive position measuring system Long Distance Positioning System (LDPS) from Balluff delivers absolutely precise results over long distances.

About the company Balluff

The success story of Balluff began exactly 100 years ago with the set up of a precision mechanics repair workshop in Neuhausen a. d. F. On the occasion of the 100-year anniversary, with 3600 employees worldwide, the global company stands for innovative technology, quality and cross-sector experience in industrial automation. As leading sensor and automation specialist, this family-owned company in its fourth generation offers a comprehensive portfolio of high-quality sensor, identification, network and software solutions. In 2019, the Balluff Group reported revenue of around EUR 469 million. With 38 subsidiaries and other representatives in a total of 68 countries, Balluff guarantees fast worldwide availability of the products and a high caliber of advice and service locally.

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