



Symeo
LPR®-1DHP

Symeo Trolley Positioning

Ship-to-Shore Cranes (STS), Rubber Tired Gantry Cranes (RTG), Rail Mounted Gantry Cranes (RMG)

- Precise detection of 1D position and speed of crane trolleys
- Usable for all types of cranes
- Maintenance-free
- Easily retrofitted
- Options: relay for crane anti-collision applications

Automatic or semi-automatic trolley movements require precise and, most of all, reliable absolute trolley positioning. Symeo LPR®-1DHP radio distance sensors provide a cost efficient and reliable solution for absolute position measurement. Two paired sensors determine the crane trolley position in real-time. All measured data is available at a standard interface for further processing on the crane bridge without any cable connection. The wireless technology delivers positioning information that is accurate to 1 centimeter. In addition to the exact distance, the speed of the crane trolley can also be transmitted.

Symeo LPR®-radio sensors work highly reliable even under adverse conditions indoors and outdoors, regardless of light, dirt, dust, rain or vibrations. Due to the operation frequency, there is absolutely no influence on any other wireless operation (voice/data communication, radio control) in parallel. The Symeo wireless sensors enable maintenance-free positioning of the crane trolley.

Application Fields:

- Inventory Management
- Collision Avoidance
- Process Automation
- Equipment Automation

Symeo GmbH

Symeo GmbH develops and markets systems for precise and contact-free distance and position measurement, as well as anti-collision solutions for cranes, industrial vehicles and fixed objects. Furthermore, the company develops certified, customer-specific telemetry solutions with mobile data transmission.

Symeo products are robustly designed and well-suited for applications in harsh industrial environments indoors and outdoors. The products are easy to retrofit and can be used regardless of vehicle or crane type. The LPR[®] sensors with unique patented radio technology are equipped

with industry standard interfaces. The company also provides industrial GNSS (Global Navigation Satellite Systems GPS, Glonass and Galileo) receivers that can be combined with LPR[®] and other movement sensors like encoders and inertial measurement units (IMU). This combination enables highly-available and precise positioning, even under the most adverse conditions and in areas with limited satellite availability.

An international network of Symeo affiliates and partners ensures local support for customers worldwide. Symeo offers a 24/7/365 technical support hotline for subscribers to avoid any downtimes.



Position Detection



Collision Avoidance



Distance Measurement



Telemetry/Data Transmission