

# Application-Report



Material-Handling



## Task:

The speeds and directions of rotation of the two separated power heads in the driving axle of a three-phase forklift truck are to be measured and transferred to the control system. Furthermore the same sensor type is to be used for the fine control of the lifting drive. A stable, high-precision sensor is required to operate the forklift truck precisely even under extreme conditions.



Source: Linde AG

## Solution:

The differential hall-effect sensor in use sends signals to two frequency outputs with a phase shift of exactly  $90^\circ$  at the lowest jitter. As a result high evaluation accuracy can be achieved and the vehicle can be controlled precisely in any situation. The sensor is media-resistant, temperature-resistant ( $40^\circ\text{C} \dots +160^\circ\text{C}$ ) and waterproof (IP69). It is ideally suited for hydrostatic drives due to its resistance to pressures of up to 15 bar. An ideal sensor for Linde, Still and OM Pimespo within the Linde division of "Material-Handling".



Rheintacho is a flexible, highly efficient partner- wherever speed must be measured, monitored or indicated. Innovation, the most modern production techniques and equipment, meticulous quality control along with a first-class workforce are the corner stones of our company. For the past 100 years, Rheintacho has used his extensive knowledge and experience to developed sensors, systems and customized solution to meet the customer's requirements.