Height of lifting platforms on automobile production lines

It is in the automotive sector more than almost any other that sustainable process optimization leads to significant competitive advantages. In the assembly process on the new types of vehicle production lines lifting platforms are used on which the vehicle bodies are placed. The platforms enable the respectively optimum working height in each operational step on the vehicle. In each of these lifting systems draw-wire displacement sensors are integrated which continually acquire the exact platform position. In this way, each lifting platform is automatically brought to the respective required height, facilitating the optimization of the individual production steps in terms of time and ergonomics.

The link between the sensors and the central controller occurs mostly via radio. Depending on the controller design, sensors are used with analog as well as digital interfaces (e.g. CAN bus, Profibus).

Reasons for the system selection

- Very good price/performance ratio.
- Extremely low space requirement.
- Various measurement ranges and types of output.
- High accuracy.
- Simple mounting.

Ambient conditions

- Temperature: Room temperature
- Medium: Air

Measurement system requirements

- Measurement ranges 1500 mm
- Accuracy 0.3 mm
- Resolution 0.1 mm
- Rugged sensor design

System structure wireSENSOR

WDS-1500-P60/P96

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