



Height of lifting platforms on automobile production lines

It is in the automotive sector more than in any other where sustainable process optimisation 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 optimisation 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 analogue and digital interfaces (e.g. CAN bus, Profibus).

Reasons for choosing the system

- 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

Requirements for Measurement system

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

System design

- WDS-1500-P60/P96