

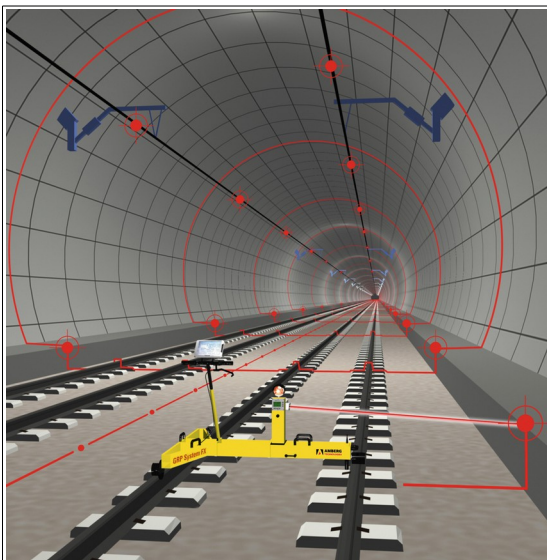
DIMETIX APPLICATION EXAMPLE

AE-0203

SURVEY OF RAILWAY INFRASTRUCTURE

Industry : Railway
Application type : Position measurement

Brief description



Pic 1: Clearance measurement

Accurate distance measurement is essential in railway construction – for new development as well for maintenance. Speed trains of the latest generation move at maximum speeds of over 300km/h. In order to preserve the rolling stock at such strains, millimeter precise measuring is inevitable. In addition, a smooth vehicle run highly contributes to the travel convenience of the passengers.

Clearance measuring is a further important subject in construction and maintenance of railway infrastructure. For safety reasons the exact knowledge of the room available, is an absolute must. Furthermore, the information of the utilizable room is most important for manufacturers of rolling stock.

A company called Amberg, who is situated in Regensdorf close to Zurich, uses DIMETIX DLS-C 15 sensors in their measuring system called GRP 3000. The

DIMETIX distance laser sensors integrated in this device, not only do clearance control measurements but also overhead wire measurements. The sensors are fixed on a mounting bracket. Their laser beam is aligned manually to the respective object. The sensors measure contactless on any type of natural target in a distance range of up to 65m. If required, their temperature range may be extended by an optional heating device from -10°C - +40°C to -40°C - +50°C.



Pic 2: Amberg system GRP 3000

Customers advantages

- Simple alignment due to visible laser beam
- Use in rough environment thanks to robust aluminium enclosure
- Maintenance free operation

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