

DIMETIX APPLICATION EXAMPLE

AE-0401

TRUCK POSITION MEASUREMENT

Industry : Transportation
Application type : Position measurement

Brief description



Pic 1: HGV vehicle being checked

In times of increasing traffic and ever more demanding tasks where time is of the essence, a system was developed to speed up customs checks on HGV vehicles. This device helps to significantly reduce time consuming check ups on vehicles since the positioning of the trucks is done with sensors.

Customs uses mobile X-Ray scanners to check the content of trucks and containers. During the scanning process the movement of the scanner must be determined precisely.

Three sensors measure the position of the moving scanning device. With this three distances the exact position of the scanner is determined. Since this is an outdoor application the used device needs to be robust, while the precise measurement needs to be fulfilled at all times.

Customers advantages

- Temperature Range from +50C° to as low as -40C°
- Precision +/- 1mm
- Easy installation due to visible laser beam
- Plenty of measurement range means that lasers do not have to be adjusted for various truck sizes
- Measurements can be acquired by a PLC or PC
- Maintenance free application– no moving parts to wear or string cables to break
- Economical, rugged , and compact package

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