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## Reliable Navigation With Leuze Rsl 400 Safety Laser Scanner

The Leuze RSL 400 safety laser scanner with measurement value output is setting new standards in the reliable navigation of automated guided vehicles (AGVs).

Available from leading sensor solutions provider Countapulse Controls, the new Leuze RSL 400 safety laser scanner is the result of many years of experience in the development of safety technology.

This compact safety scanner combines safety technology and qualitatively superior measurement value output in a single device. This enables reliable safeguarding and navigation of AGVs. Measurement value output is optimised to navigation software that functions according to the principle of natural navigation with SLAM (Simultaneous Localisation and Mapping).

Due to its high angular resolution of 0.1 degrees, the Leuze RSL 400 offers extremely detailed scanning of the environment across the entire measurement range of up to 50 metres. This is achieved through a particularly narrow laser spot that maintains its perpendicular shape over the entire scanning angle. The distance values have a high accuracy and are not influenced by reflection of objects.

The additional output of the received signal strength value for each beam allows autonomous detection of reflectors by the navigation software. When beams strike a reflector, the values differ greatly from any other environment, which facilitates reliable detection.

With up to 100 switchable field pairs, the Leuze RSL 400 offers optimum adaptation of the protective fields, even in cases where there are many different movement and loading conditions. Parallel monitoring of multiple protective fields enables safe and reliable reduction of the speed of AGVs.

These new functions are also available as a device model with PROFINET/PROFIsafe interface, thereby making integration extremely easy.

Johannesburg-based Countapulse Controls offers industry access to skilled technical personnel that can advise on sensing solutions across a broad range of applications.

RLS 400 PIC 01 : The Leuze RSL 400 safety laser scanner.

RLS 400 PIC 02 : Safeguarding of the AGV and simultaneous detection of the measured values for the navigation software using a Leuze RSL 400.

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