



Fashion centre relies on sensor solutions



Buchs/Göteborg, the division of Swisslog which specialises in logistics solutions for wholesale and retail, uses sensors from **Leuze electronic** to ensure the smooth running of automated storage and distribution centres. One centre is the Scandinavian fashion group Lindex which commissioned Swisslog to design and equip its headquarters in Göteborg

With businesses in more than 50 countries and on every continent, Lindex relies on the know-how, plus the extensive planning and implementation experience of Swisslog.

Lindex commissioned Swisslog to design and equip its distribution centre at its group's headquarters in Göteborg. The centre, which handles the flow of women's and children's clothes to 350 outlets in northern Europe is based on a combination of fully automatic and manual processes. It is serviced by four cranes, an intelligent pick solution, as well as an automatic labelling and palletising system.

The high throughput and reliability of the material flow control systems



relies on Leuze's optoelectronic sensors and BCL500i barcode readers.

PRK 25B retro-reflective optoelectronic sensors are optimised for container and packet detection in real-world applications. The sensor's performance reserve enables them to operate reliably at ranges of up to 10m, while facing challenges such as shrink-wrapping. Swisslog also made use of technologies from Leuze electronic

Above right:
Leuze's BCL500i barcode reader

Left: The BVL500i uses Leuze's code reconstruction technology which takes many scans at an angle and reconstructs the slices into a complete barcode

such as brightVision and the Ultra-Lock connector system which simplified mounting and commissioning.

KONTURflex measuring light curtains are also used and these work by generating a monitoring field consisting of many light beams. The number of interrupted light beams defines the width of the object being measured.

Fast and reliable identification is key to the logistics system's availability and process reliability and hence prime drivers in Swisslog's choice of BCL 500i barcode readers.

The BVL500i barcode reader range is a flagship for Leuze electronic, because it is said to offer excellent technical performance, including a large depth of field, a choice of integrated communication protocols and built-in configuration software.

For Lindex, Swisslog chose BCL500i scanners with a fully integrated Profibus interface, to enable the readers to be integrated into an existing network. In addition to utilising configuration of the scanner across the network, Lindex also benefits from the high reading ability provided by the code reconstruction technology built into all BCL500is. Leuze electronic's code reconstruction technology, which is used across the UK in supermarket and catalogue shopping distribution centres, works by scanning across a barcode at an angle, rather than along the central axis of the code.

Many scans are taken at an angle across the barcode and the BCL500i reconstructs these numerous slices into one complete barcode. This enables the scanner to overcome problems such as gaps in the barcode, which would typically be due to poor print quality or soiling of the label.

High-performance optics, innovative scanning technology and integrated communication protocols made the BCL500i suitable for the constantly increasing volume and demands of Lindex's distribution centre.

Leuze electronic's design and manufacture of its sensors is said to provide a healthy performance reserve, which ensures reliable operation in real-world applications.

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