

We are only successful when you are.

 **Leuze electronic**

the **sensor** people

- While using the advanced technology of Leuze Electronic in the field of Safety, Logistics and Detection, IES is able to offer its valuable customers turnkey solutions starting from the inception of their ideas, development, till final integration and project acceptance.

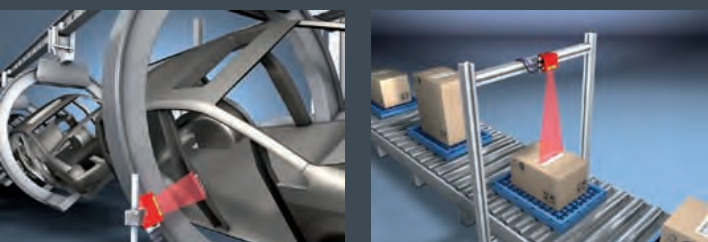
- Online Quality and Route Control is one of these developments based on Leuze smart solution; IES implements "intelligent" projects where the core component can be either a smart vision system (LSIS 4xx) or a Barcode reader (BCL xxx). With their innovative and high performance technology, the identification process is made fast and simple. Thanks to their industrial grade and robust design, such components are suited for harsh environments.



Blob & Barcode Identification Sensor



Barcode reader
BCL 548i



Simple handling and wide variety of integrated field bus interfaces

- Convenient configuration with the integrated webConfig tool via USB
- Code reconstruction technology (CRT) for the identification of soiled or damaged codes
- High scanning rate of 800 – 1,200 scans/s (adjustable): Permits identification even at very high conveyor speeds

Smart camera
LSIS 462i



Particularly cost-effective for a wide range of applications: Quality control and code reading in one device

- Reliable detection of objects or object groups on the basis of geometric features
- Test for presence, completeness, type, position and orientation
- Reading of printed and directly marked codes
- Omnidirectional reading of the most important bar codes and 2D codes with reference code comparison

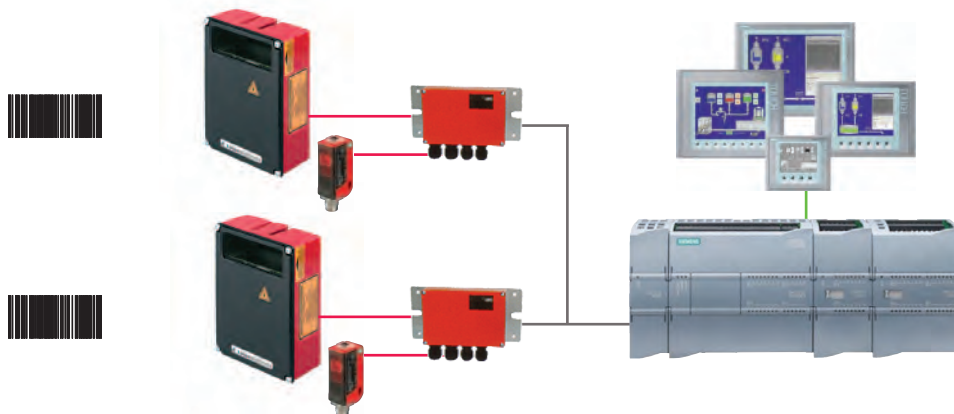
Project Background

Our latest project was realized for Coca Cola Atlantic Concentration Plant in Egypt, Cairo Free zone and considered as main hub for the distribution of the concentrate "secret recipe" to over than 47 countries around the world.

Coca Cola set "Zero Error" as a major target of 2011-2012 targets and accordingly, IES was honored to fulfill the complete online quality control system for the liquid lines serving the Coca Cola, Sprite, & Fanta.

System Description

The Barcode Control system is placed on the downstream conveyor of a labeling machine with two labeling stations. Its objective is to check the correctness of the barcode on each side of the plastic HDPE drum. In case of bad reading, either a wrong barcode or a barcode not read, the system will output an alarm with a buzzer and a flashing red light and will stop the conveyor.



The system consists of two Leuze barcode readers (BCL 32) mounted on a round rod on each side of the conveyor. Their height can be manually adjusted to fit the different heights of the labels when changing the drum size.

The BCLs are connected through their connection units (MA 4) to the Siemens Programmable Logic Controller (S7-1200) in a Daisy Chain Network with RS-232 serial communication. A Siemens Operator

Panel (KTP600), connected to the PLC through Ethernet, is used to enter the barcode number and to visualize the number of drums conveyed and the number of barcode errors.

