

Paperless production

Digital furniture production control with Opticon's ESL solution

OPTICON

We scan, connect and communicate

fraefel 

Introduction

Fraefel AG is a Swiss furniture manufacturer and a leader in the production of high-quality bathroom furniture and furniture collections, as well as an expert in the processing of sophisticated ceramic and quartz stone surfaces.

The cooperation between Opticon Sensoren GmbH and Fraefel AG started in 2019, and the furniture manufacturer's focus since then has been on ESLs and EBS products.



The Situation

The manual, paper-based production control with many documents, collection boxes and internal coordination efforts proved to be costly and time-consuming for Fraefel AG. In addition, there was the susceptibility to errors due to manual input or missing documents. The customer's goal was to eliminate the production papers by implementing digital ESL displays.

The Solution

The advantage of using ESLs is the dynamic connection of the ESL server to the ERP system. Through the combination of ESLs and mobile scanners, production orders are identified and automatically updated using barcodes.

This primarily includes the following stages:

- Release
- Bill of materials complete
- In production
- Completed

The Solution

Opticon's ESL solutions offer the possibility of setting up differentiated templates per status for the entire process. The production employee receives additional information on the displays, for example, changes to deadlines or quantities, cancellations or dynamic missing parts information, all completely paperless and up-to-date at all times.

In addition to the wide range of functions of the ESL solution and the mobile use of the displays, the qualified advice from the Opticon sales team was also decisive in the decision to use the EE-420R labels. In addition, a test environment was set up quickly and easily, which was also integrated in an uncomplicated way thanks to the freely available software.

„As the ESL software is freely available, we were able to program and test the entire connection ourselves. In case of problems, however, we still had the exemplary support of Opticon Sensoren. We are very satisfied with the current version of the software and the use of the displays in everyday life.“

Markus Abderhalden,
Operations Manager, Fraefel AG

Opticon Products: EE-420R and EBS-40

The EE-420R is a 4.2-inch, high-resolution, full-graphic e-paper display. The label can display the colours black, white and red, creating an eye-catching effect of product images. Thanks to its e-paper technology, it is even possible to read barcodes from the display using a laser scanner. The display only consumes power during radio transmission and has a long lifetime even when battery-powered. The EE-420R labels can be used in retail, pharmaceutical, medical, logistics, manufacturing and any industry that wants to replace paper labels with digital labels.

The graphic display is automatically controlled via the EBS-40 base station, which is required for the operation of all ESL displays. The base station controls both, communication to the labels and data management automatically via the enclosed server software using a radio protocol. In normal operation, a single EBS-40 base station can control up to 2,500 ESL labels of various sizes. The ESL network can easily be expanded with additional EBS base stations.



About Opticon

Opticon Sensoren is known for its pioneering work in the Auto-ID industry and since it was founded in 1976, it has developed into an international and versatile manufacturer of quality products in the areas of automatic identification and digital signage.

Since 1989 Opticon Sensoren GmbH is the German branch of Opticon Sensors Europe B.V. and with Opticon Inc. (USA) part of OPTOELECTRONICS Co., Ltd (Japan). Products and solutions from Opticon are valued in the market for their durability and can be individually programmed.

In addition to scan engines for integration into industrial applications, we also offer you pre-assembled Fixmount scanners for Vending machines and parking space management, as well as all common scan solutions for the retail and industrial sector:

- Mobile and cabled scanner
- Stationary scanner
- Companion scanner
- Wireless scanner
- Terminals (Windows and Android)

Opticon Sensoren is also known for its solutions in the field of digital signage and ESL (Electronic Shelf Labels). This includes the following products, among others:

- E-paper based displays
- TFTs in special formats
- Battery-free E-paper solutions
- As well as the corresponding infrastructure and software

Thanks to our strong partner network around the globe, we will also find the right solution for you and are the point of contact for end customers, integration partners and system houses alike.

We scan, connect and communicate!

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