

SAFE GLUING AND OPENING –

WITH THE UGB ULTRASONIC SENSOR FOR SPLICE MONITORING

MARKET: PACKAGING INDUSTRY

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Vacuum packages are frequently used to store coffee. To increase the customers' benefit, the outer package of vacuum-packed coffee has a tear strip. The tear strip is glued onto the back of the printed paper by the coffee producer. This process must be monitored to ensure that all papers have a tear strip.

THE PROBLEM

Depending on the coffee type, the color, thickness and texture of the packaging paper types may vary. The tear strip may be of different colors as well. Until now, sensors that were used to monitor splices had to be adjusted extensively after each paper change. In addition, the reliability of the monitoring process was unsatisfactory.

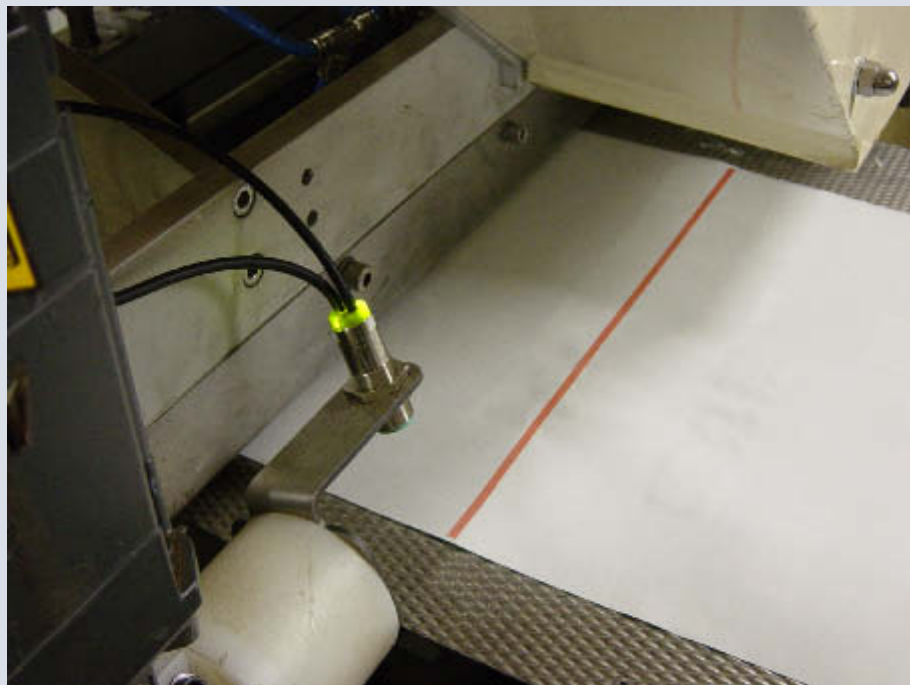


Fig. 1: UGB transmitter above the packaging paper

THE IMPLEMENTATION

The UGB ultrasonic splice detection sensor from Pepperl+Fuchs is the solution! This ultrasonic sensor ignores the paper color and texture. With the electrical TEACH-IN input, it is easy to adjust to new paper types and, monitoring 100 packages per minute, the sensor enables very short processing times.

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Fig. 2: UGB transmitter below the packaging paper

Here, the packaging paper passes over a 30 mm hole in the sheet metal. The ultrasonic transmitter sends its signals to the ultrasonic receiver through the hole and accurately detects the paper.

THE CUSTOMERS' BENEFIT

The UGB ultrasonic sensor features high reliability, few adjustments during paper changes and low processing times. The MH-UDB1 assembly aid eliminates installation errors and ensures safe splice monitoring.