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IMPROVED PRESENCE VERIFICATION OF TAMPER- EVIDENT LABELING

Label glows red when illuminated
by the sensor's UV light

Labeling a smarter future



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PROTECT CONSUMERS and ensure compliance

Tamper-evident pharmaceutical security labels need to stay in place and intact to ensure patient safety. Existing presence verification solutions can help by making sure that tamper-evident labels are applied to carton packages correctly, but they face some challenges.



Challenges with presence verification solutions:

- Solutions have often required continuous manual adjustment of sensor settings, with a high risk of manual error and false confidence that products are labelled correctly.
- False positives mean that products are sent out without labels.
- False negatives mean that products are incorrectly flagged as not being eligible for sale, meaning they have to be rejected or destroyed.
- Validating the traditional sensor setup has proven difficult – and with multiple packaging types and artwork designs, a sensor might be perfectly calibrated for one particular package, colour or gloss, but still give false readings for a package with a different design.
- It is difficult to detect if labels are in the wrong position or have edge lifting.
- Transparent label materials are difficult to detect.

New reliable presence verification

To address these issues, we've co-operated with Labelling Systems Scandinavia (LSS) to develop a solution which combines our Red Luminescence label material with their sensor system that can be easily retrofitted on existing lines to work with existing equipment:

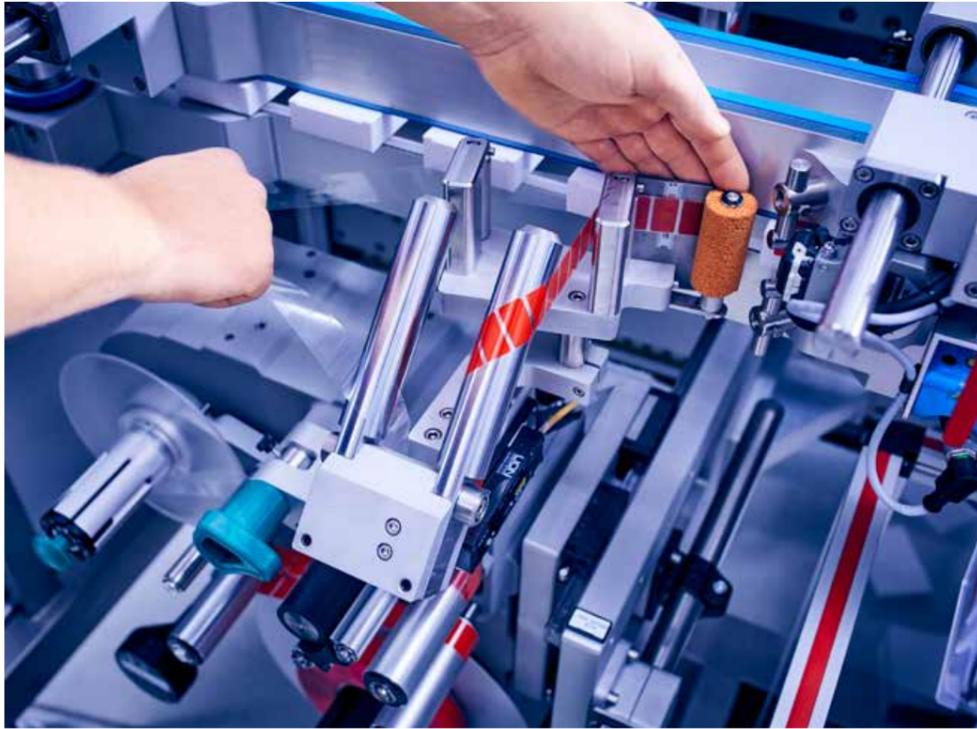
- This innovative automated label detection system doesn't require the continuous manual adjustment of sensor settings, making it the most reliable and efficient solution available today.
- The Red Luminescence solution helps to increase patient safety and protect producers from the unnecessary costs of product recalls and the risk of non-compliance with legislation such as the European Commission's Falsified Medicines Directive.

***Labels in the photographs are red only for demonstration purposes. The real label material is transparent until it is illuminated by the UV light integrated in the system's sensor and will only then glow as red.**

How it works

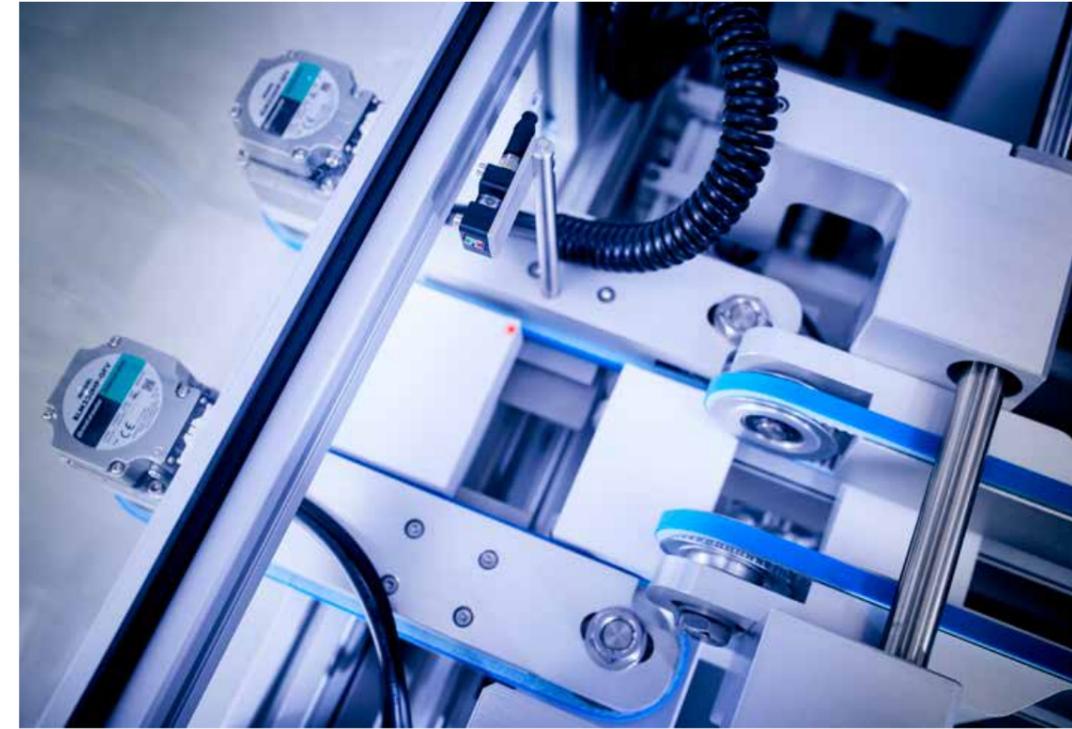
1

A Red Luminescence tamper-evident label is applied to the carton package.



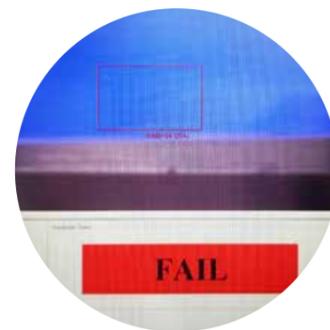
2

The new sensor system with an integrated UV light source automatically detects if the label is present. Regardless of the packaging colour or design, only the transparent tamper-evident labels will glow red.

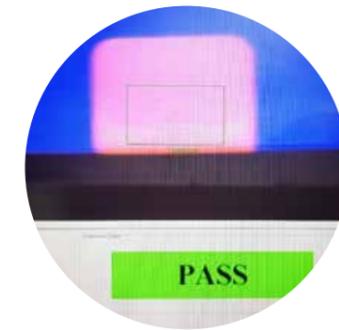
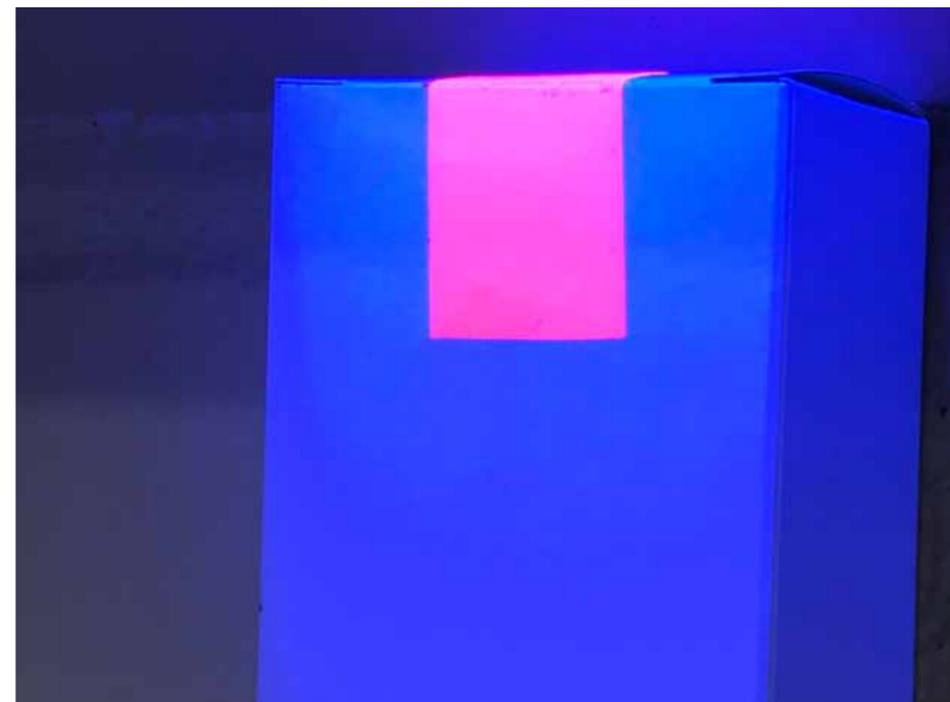


*Labels in the photographs are red only for demonstration purposes. The real label material is transparent until it is illuminated by the UV light integrated in the system's sensor and will only then glow as red.

3



If the label is not present:
Fail



If the label is present:
Pass

THE BENEFITS are automatic

From February 2019, all pharmaceutical packaging lines producing product for sale in the EU must be able to ensure that tamper-proof seals are intact and present on all packaging, making label inspections critical. The Red Luminescence presence verification solution offers the following benefits:

- Helps ensure that labels are applied correctly to carton packaging with 100% certainty of approval or rejection
- Improves patient safety and ensures compliance with the latest legislation
- Reduces the risk of costly recalls caused by false positive readings
- Eliminates wastage costs caused by false negative readings
- Runs packages on one set point, with no sensitivity to colour, surface glossiness, distance and unusual angles, unlike with existing solutions
- Sensor settings can be documented and reproduced
- Offers detailed validation documentation that can be used for both internal and external auditing
- In addition to the standard "label presence" inspection, the actual position of the label on the carton can also be verified
- Can be retrofitted to existing lines as a one-to-one replacement
- Also available for new-build dispensing and packaging lines





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