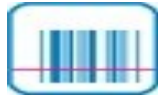


Correct Package Seal Positioning



Application

- Application location: Packing machines
- Task: Identification
- Industry: Chemicals, pharmaceuticals, cosmetics, Packaging
- Product group: Contrast Sensors

Overview

Correct positioning of a seal is important in the manufacture of a product as well as for the consumer. An improperly placed seal can lead to distorted graphics and poor consumer confidence in the quality of the product inside. A correctly positioned seal helps the manufacturer get their intended message to the customer in the store. When the graphics and ingredient list are clearly visible, it gives the manufacturer the best opportunity to capture the attention of the consumer and increase sales.



Application Description

Using a small contrast sensor gives machine builders tremendous flexibility where to place the sensor in the machine and in the types of registration marks that can be detected. With ever changing package colors and configurations, a sensor that can be taught a new combination quickly and easily is the ideal solution. Because of the high speeds that products move in a packaging environment, the sensor must also have a fast response time.

Solution

The SICK KT3W is an ideal solution. The small, compact yet robust housing enables it to be mounted in some of the tightest locations. The SICK KT3W has an easy to use teach-in function, ensuring reliable detection on almost any color combination. The KT3W can be taught directly on the sensor by simple push button operation or via a remote teach wire, giving users even more flexibility. The teach-in process is accomplished by presenting the mark and pushing the “teach” button (or pulsing the remote control wire). Then, present the background or substrate and push the button again. The KT3W then uses an internal algorithm to “decide” which of the three internal LEDs (red, green, blue) create the best contrast, and selects it. The speed of a sensor is also critical. With a switching frequency of 10 kHz (50 μ s response time), the KT3W is very fast.

Subject to change. See legal information at www.sick.com