EPSILON
Controls & Automation

Application Note...

Presence/Absence and verification of rubber gasket on drum closures

Deployed 120mm from its target, an iVu plus TG with 12mm lens inspects for the location and presence of, and twist on gasket on high speed Conveyor.

Background

Special application done for drums Closures manufacturing industry. These industries need a simple, cost-effective, and reliable way to verify that the presence and position of the gasket, and to reject the closure if there is a twist on the gasket.

Challenge

The Products traveling at speeds of up to 120/minute gasket could be black or white, closures are plated and hence give bright shine, and the gasket are powdered to avoid sticking to each other. These factors go against the vision system.

Solution

The Epsilon iVu Plus TG image sensor provides a simple way to perform gasket verification using Area tool, Epsilon iVu plus TG sensor can provide additional reliability for Gasket. The image of the closures is compared with the pre-Saved image for each batch. In event of a missing Gasket or twisted gasket one electronic output are generated from Camera. In this case, output is used to eject the faulty Product by air purge nozzle

Product Image