

# TapTone 500-C

## Compression Sensor for Non-Pressurized Flexible Containers

### Find potential leakers and other defects in plastic and flexible containers

#### Compression Technology

The TapTone 500-C is designed to find leaks in flexible plastic bottles on-line at production speeds.

As a container passes through the system, dual parallel belts apply force to the sidewalls of the container. This action compresses the headspace of the container which allows a load cell to take a force measurement at the discharge of the system. Utilizing DSP technology, the controller analyzes the measurement and assigns a merit value to each container. If the merit value is outside of the acceptable range, a reject signal activates a remote reject system. The TapTone 500-C employs an easy operator interface. It provides on-screen sensor display feed back for fast system set-up as well as self-diagnostics for continuous monitoring of system performance.



#### Find and Reject:

- Leaking containers
- Defective or missing closures
- Defective containers

*Profile of a good container.*



*Profile of a bad container.*



*Discriminate between sealed and leaking containers through onscreen histograms.*

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## Compression Sensor for Non-Pressurized and Flexible Containers



### TapTone 500 Multi-Function Inspection System

The TapTone 500-C is an on-line multiple sensor inspection system for leak detection and fill level verification. In addition to the compression technology, the TapTone 500 control platform will accommodate up to 10 different inspections to meet numerous requirements.

#### Options include:

- X-ray sensor for fill level
- Proximity sensor for curvature measurement
- Acoustic sensor for leak detection
- Optical sensors for:
  - Cocked cap
  - Missing cap
  - Missing foil seal
  - Missing tamper band
  - Missing label
  - Height of fill

#### Features and benefits:

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| <ul style="list-style-type: none"><li>■ High Speed Inspection:</li><li>■ Multiple Sensor Capability:</li><br/><li>■ Cantilever Design:</li><li>■ Accurate Rejection:</li><li>■ Menu Driven Keypad:</li><li>■ (10) Stored Pre-sets:</li><li>■ Computer Interface:</li><li>■ NEMA 4 Rated:</li><li>■ Multi-lingual Display:</li><li>■ Control Outputs:</li><br/><li>■ Control Inputs:</li></ul> | <p>Up to 200 feet per minute</p> <p>Integrates up to 3 primary inspection sensors (acoustic, proximity, x-ray, and force)</p> <p>Mounts adjacent to existing conveyor</p> <p>Shaft encoder monitors conveyor speed</p> <p>Quick set-up &amp; programming of parameters</p> <p>Provides quick product changeovers</p> <p>RS-232/485 communication port</p> <p>Fully sealed to withstand washdown</p> <p>Seven different languages</p> <p>Consecutive and percent rejects and error code alarm</p> <p>Seven additional inputs</p> |
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*Front and back views of the T500-C Compression Sensor show its cantilever design that mounts adjacent to existing conveyors.*