



# TapTone

## APPLICATION NOTES

News and information from Teledyne TapTone, a leader in the package inspection industry.

### FINDING NO VACUUM CANS INSIDE SEALED CASES

**Tested:** Cases of canned soup, 3-piece cans, 4X3 case, 1 Lb. 7 oz. cans

**Inspection Desired:** The purpose of this test was to verify the seal integrity of cans in a shrink-wrapped case. The objective was to locate individual cans with no vacuum present.

**Tested with:** TapTone Case Tracker proximity system.



▲ Cases of canned soup

### TECHNOLOGY CORNER *HOW IT WORKS*

The Case Tracker is a non-contact inspection system designed for checking pressure or vacuum loss in individual containers inside cases and film over-wrapped trays. The system also inspects the case for missing or damaged containers. The system uses multiple proximity sensor inspection heads to measure the lid curvature of each container. This data corresponds directly with a loss of vacuum or pressure. A digital signal processing technique compares the measured lid curvature with a reference signature of a good container to determine seal integrity.

If a bad or missing container is detected, the individual container will then be marked on the case with an optional spray marker, the entire case is then diverted from the production line using an optional case rejector. For warehouse applications the system is equipped with a 2-meter conveyor. Standard conveyor configurations allow for inspection at 80 or 120 cases per minute depending on case length.



▲ Case Tracker



