TapTone FS

Force Stainless

Stainless steel construction and reinforced side plates make the FS the ideal system for high pressure and high speed applications, where conveyor height is a challenge.

Accelerating Line Speed in Pressure Inspection

The TapTone Force Stainless (FS) is designed to handle the higher pressure applications found with many aerosol containers and heavy duty aluminum can/bottle applications. Reinforced side plates give extra rigidity for high pressure applications and allow for a stable reading with excellent resolution. The system can alternatively be fit with a mid-range or low range pressure sensor for applications that require all-stainless steel construction.

Benefits

- Rapid on-line inspection: up to 2.67 m/sec (525 ft/min) maximum
- Long-term reliability reduces fast rejects and waste
- Controlled access to system features with multi-level passwords
- Combined inspections on a single controller: run up to 4 primary inspections
- Reject and sort with 2 independently operated reject outputs
- Meets CE requirements, UL and CUL approved
- Designed to fit conveyor heights up to 1.96 cm (77 in)

Applications

- Pressure/Leak inspection in carbonated or LN2 dosed beverage cans
- Pressure/Leak inspection in carbonated or LN2 dosed plastic containers
- Pressure/Leak inspection in LN2 dosed retorted dairy based drinks
- Pressure/Leak inspection in aerosol cans with gas propellents
- Pressure inspection in aerosol cans with liquid propellent
- Pressure/Leak inspection in containers with internal pressure up to 12 bar or 180 psi

How It Works

Force Technology

Detects leaks and low pressure in LN2 dosed containers, carbonated beverage containers and aerosol containers. Parallel belts transport the container past a sensor that measures the tension on the sidewall of the container. This action allows the system to measure the pressure inside the container. 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 and the container is removed from the line.

DATASHEET

SYSTEM SPECIFICATIONS

General Specifications FS

Pressure Measurement Range	Up to 12 bar (180 psi)
Operating Speed (max)	2.67 m/sec (525 ft/min)
Conveyor Height Range	91.4 cm-196 cm (36 in-77 in)
Belt Opening (maximum)	15.9 cm (6.25 in)
Digital Outputs	8
Digital Inputs	4
Shaft Encoder	Stainless steel
AC Line Voltage (standard)	230 VAC, 1-phase
AC Line Voltage (option)	460 VAC, 3-phase
Alarm Outputs	2 (multi-function configurable)
Reject Outputs	2

Material & Control Enclosure

Transport Deck Materials	304 Stainless steel
Frame Material Finish	Stainless steel

Software & Networking Capabilities

Remote Diagnostics

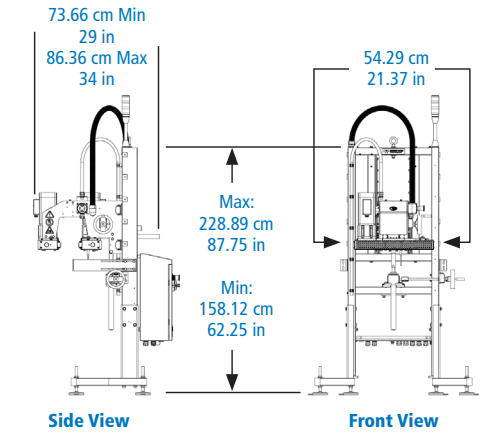
Supports Multiple Languages (user interface dependent)

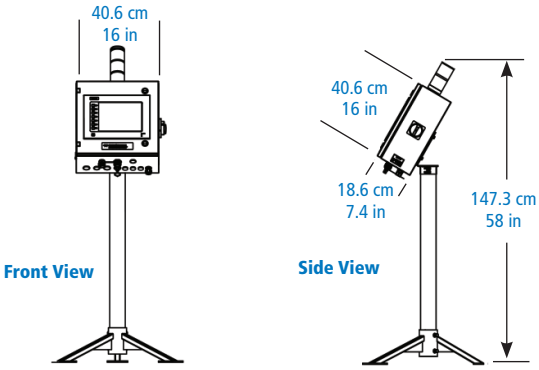
Stores Multiple Product Set-Ups

Supports Industrial Ethernet Protocols (EtherNet/IP and Modbus TCP)

Multi-Level Password Protection

FS
SENSOR





FS
OPTIONS

Belt Wash
The belt wash system is designed to clean and dry the compression belts.

Air Pressure Monitoring
Monitors and displays the air pressure at the rejector. Alarm signal will activate if the air pressure drops below user pre-set limits.

Cap Inspection
Inspection sensors for missing, high, or cocked cap detection.

Rejectors
TapTone offers a line of pneumatic ram and standing rejection systems.

Reject Verification
Detects a container that has failed the inspection but has not been rejected from the production conveyor.

Trigger Blow-Off
Keeps the lens of the photo triggers clean. Suggested for use in harsh environments.