

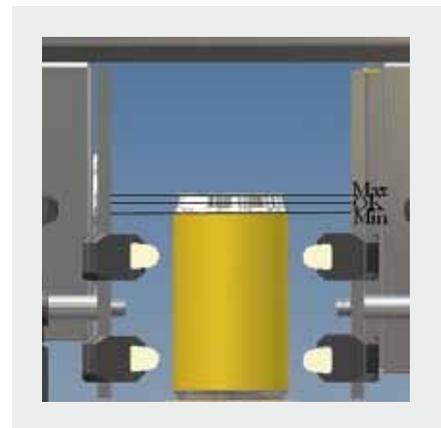
CL600 X-Ray Fill Level Inspection for Metal, Glass and Plastic Containers

The FT System CL600 X-ray sensor will inspect metal, glass and plastic containers for fill level defects. The sensor is designed to mount easily over an existing production conveyor. The ergonomic design provides easy access the control panel and supports fast tool-less change overs. The X-ray sensor can be used on all product type as water, juice and tea, wine and spirits, milk etc.. The system can also be used on carbonated beverages including beer and carbonated soft drinks.

X-RAY FILL LEVEL TECHNOLOGY

Theory of Operation

The FT System CL600 X-ray fill level sensor is used to measure the fill level in metal, glass and plastic containers. The system uses a low energy x-ray beam to measure the density of the product in the fill level region of the container. The X-ray beam passes through the container and is attenuated by the product blocking the beam. The amount of energy attenuated by the product is proportional to the amount of product in the fill level region. The X-ray beam is received by a linear diode array that measures the energy of the beam across the full width of the container. This analog data is used to calculate the fill level.



The CL600 X-Ray System can support filler valve monitoring for a complete fill level management solution.



FILL LEVEL INSPECTION

CL600 X Ray system



SYSTEM FEATURES

- Over fill and under fill inspection on single sensor
- Production counters for total containers, total accept, total reject, percentage pass/reject, under fill reject value, over fill reject value.
- Consecutive and sequential reject alarms
- Self diagnostics with alarm output
- Data archives for 60 product setups
- Multilingual user interface
- Built-in oscilloscope function
- 2 communications ports

PROCESS CONTROL FEATURES

- Calculation of mean error (rolling average showing the amount containers are over filled or under filled)
- Ability to add complete filler valve monitoring to isolate fill level defects by individual filler valve
- Ability to add filler valve or capper head sampling to periodically sample containers by filler valve or capper head

