



**L Series Pipeline**

Maximum Detection Performance

Suitable for Harsh Environments

Easy Process Line Integration

Meeting Food Safety Needs



**L Series Pipeline Metal Detectors**

For the Inspection of Liquids, Pastes and Slurries

# Liquid, Paste and Slurry Inspection

## High Performance in Harsh Environments

**METTLER-TOLEDO SAFELINE L Series pipeline inspection systems are designed to inspect all manner of liquids, pastes and slurries for metal contamination in the most hostile food processing environments.**

As an integrated system in your production process, L Series Pipeline metal detectors can increase productivity, improve the competitiveness of your business, reduce overall costs and support compliance with food safety standards.

### High Sensitivity for Maximum Security

The use of SAFELINE's advanced detection coil technology and digital signal processing combined with new enhanced filtering techniques deliver unparalleled levels of in-process detection sensitivity to all metal types. Ferrous, non-ferrous and normally difficult to identify non-magnetic stainless steel contaminants can be easily detected and removed from process lines.

L Series Pipeline detectors are also able to find non-spherical contaminants such as wire, swarf and slithers of metal - the most difficult contaminants to detect. Advanced software provides exceptional levels of in-process stability resulting in reliable, on-line performance and minimised product waste due to the elimination of false triggering and the loss of good product.

### Easy Operation for Optimum Efficiency

The operator interface utilises SAFELINE's Profile software platform with a full colour touch screen technology.



The intuitive Profile platform provides numerous operational benefits including:

- High security password protected access
- Continuous Condition Monitoring
- SMS/email messaging facility
- Continuous waterproof controls
- User Access and Detection Log

L Series Pipeline systems are also available with SAFELINE's Signature software operating platform.



L Series Profile Pipeline detector mounted on mobile stand



### **Reliable in the Harshesht Environments**

With sealing available up to IP66 standard, the rugged, heavy duty, all stainless steel construction L Series detectors are designed to withstand the rigours of heavy wash-down regimes and the most hostile environments found in food processing plants. All dirt traps have been eliminated enabling high temperature and high pressure wash-down to take place in order to meet exacting hygiene standards.

### **Engineered to Suit Your Needs for Easy Process Line Integration**

The operator control panel can be installed remotely from the search head enabling the point of inspection to be located in inaccessible places such as in elevated pipes and in complex and congested pipeline networks.



Systems can be designed to suit your exact needs dependent on the product being inspected and can include:

- Solutions for direct integration with other equipment
- Special support brackets and frames
- Mobile stand mounted designs on easy-move castors
- Water heated throughput pipes for high viscosity products
- Integrated automatic reject solutions

### **Heightened Product Quality Through Reduced System Pipeline Length**

Increased length of product flow pipelines can give rise to degradation in some products. The use of SAFELINE'S optional patented ZMFZ (Zero Metal Free Zone) technology allows the metal fittings of the throughput pipe and other process equipment to be positioned closer to the detection head without affecting the detector performance. This facilitates a short throughput pipe for maximised product quality in restricted installation spaces.



### **Data Collection Solutions**

L Series pipeline systems can be connected to mobile printers to enable process data to be collected to support compliance and proof of due diligence. Alternatively, systems can be linked via a serial connection or Ethernet technology to a wide range of factory data management systems. This enables real-time data collection and transfer to be realised.





## Pipes and Fittings to Suit Your Needs

A wide range of pipes and fittings are available compatible with RJT, SRJT, DIN 11851, IDF, SMS and Tri-Clamp specifications. Options for special applications include:

- High temperature and high pressure pipes
- Water heated, jacketed pipes

## Reliable Contaminant Removal

The effective removal of metal contamination from your manufacturing process is critical to ensure product quality is optimised and to afford maximum protection of your customers and your business.



## A Choice of Reject Valves

A selection of heavy duty, stainless steel, pneumatic reject valves with quick release couplings are available to automatically redirect process flow into a reject pipe when metal contamination is identified.

- Hygienic easy clean designs
- Food industry standards approved contact parts
- Ball, plug or cutting valve options
- Integration with flowmeters
- "Piggable" easy-clean valves
- Sealing up to IP66 for the harshest environments
- Specified to suit actual product



## IPac Supports Compliance

All L Series metal detection systems are supplied with a METTLER TOLEDO IPac installation and performance verification package. This provides the necessary documentation to support compliance with industry standards, prove due diligence has been exercised and simplify the task of meeting external auditor requirements.



[www.mt.com/metaldetection](http://www.mt.com/metaldetection)

for more information

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