

# INTUITY

## Metal detector for installation on conveyor belts

- Innovative user interface INTUITY CONTROL for a high level of usability
- Best metal detection performance with Multi-Simultaneous-Frequency Technology
- Meets or Exceeds all major food safety standards and retailer codes of practice
- Specialized Compliance Mode software ensures conformity to Food Safety Programs
- Active detection performance displayed via Detection Forecast Algorithms



# INTUITY

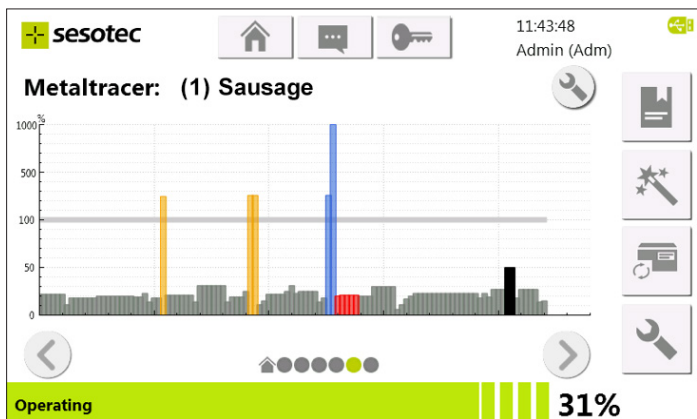
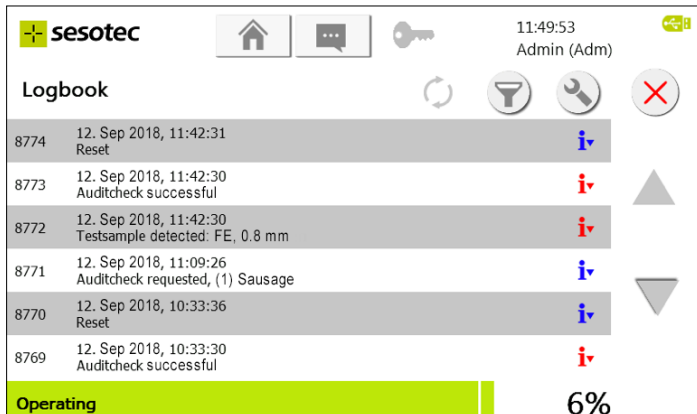
## Metal detector

The high-performance INTUITY metal detector is widely used in the food industry for inspection of packaged, unpackaged and bulk products on conveyor systems. Conductive product signals are managed via multi-simultaneous frequency technology to provide detection of all types of metals, magnetic or non-magnetic, stainless steel, iron or brass down to the smallest levels possible. Metal size detection prediction is displayed to alert the operator. The INTUITY metal detector is specifically designed to reduce product signals thus providing the lowest level of metal detection, offering the highest possible protection against tramp metals.

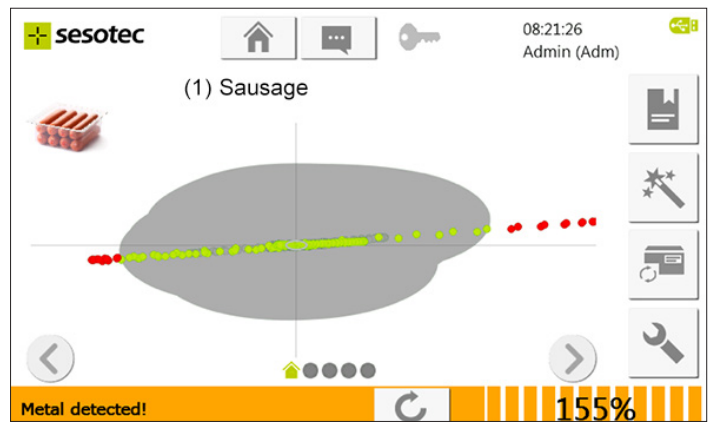
The INTUITY metal detector can be integrated onto a range of Sesotec conveyor solutions complete with automatic rejection systems and containment bins. All events are logged in the logbook and are available for quality evaluations and audits via Ethernet or USB.

### Easy operation and usability

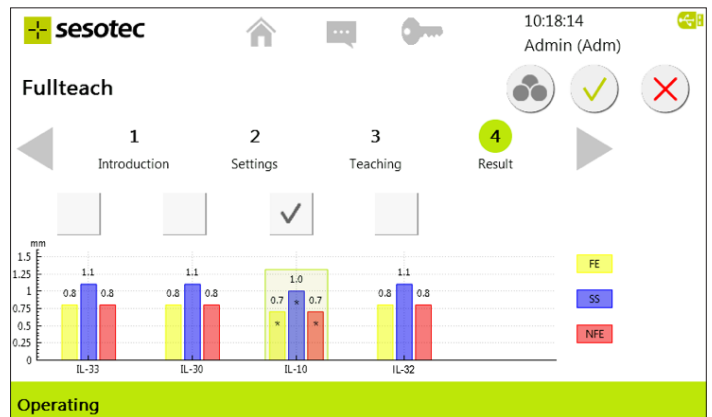
With the integration of the INTUITY onto a Sesotec conveyor system, peak detection performance is assured. The combination of high-quality metal detection and very simple user friendly menus makes it easy for every user to operate right from day one.



The well-designed graphical user interface facilitates clear understanding and provides a good overview of the information.



Users are guided through the operating steps via displayed information providing full control and understanding for users at any time.



### Benefits

- Ergonomic position of user interface on the Metal detector and easy to operate user interface INTUITY CONTROL
- Support for new users with detailed help-information in the menu
- Guidance through steps of operation, full control for users
- Quick access to key system functions displayed on home screens

## Easy compliance with all major food safety standards

Operating a metal detector within a HACCP or other food safety program requires documentation and frequent validation of detection performance.

The INTUITY metal detector comes ready to help.

- Integrated logbook, where events and product changes are recorded
- Easy export and filter of certain events
- Product teach with forecasted test ball size is documented

Easy reset of production and system settings, if specific product settings were mistakenly changed during operation.

### Benefits

- Meet or Exceeds IFS, BRC and other food safety standards for metal detectors
- Automatic Audit-check Software alerts when validation is required. All results are recorded within the system logbook
- Ethernet or USB port for saving logbook data to a storage medium. Optional direct integration in a company network with INSIGHT.NET software solution and corresponding interface
- Product signal history graph illustrates product signals over time displaying changes in product signals

## Active reduction of false rejects

The INTUITY metal detector often times provides improved metal detection performance compared to many factory standards. In these situations, operators can use the Compliance Mode to reduce the sensitivity to meet the factory standard thus reducing the false detection rate.

With Compliance Mode, the detection sensitivity is preset to the specific factory/line standard. The detection threshold is adjusted automatically decreasing the false rejection rate and loss of good product during production.



The screenshot shows the INTUITY CONTROL interface for a Sausage product. It displays a table of detection parameters for Detector 1 @ Line 1, comparing Forecast and Compliance Mode settings for Ferrous, Stainless steel 304, and Non-ferrous materials. A threshold of 50 is shown, and the unit is currently in Operating mode with a 6% detection rate.

	Forecast	Compliance Mode
Ferrous	1.80 mm	3.00 mm
Stainless steel 304	2.50 mm	4.00 mm
Non-ferrous	2.00 mm	4.00 mm

Threshold: 50

Operating 6%

## Scope of delivery

Rectangular Aperture metal detector with INTUITY CONTROL control unit, IO unit in separate housing with mains cable, connected with a 2m hybrid connecting cable.

## Best in Class Metal detection performance

The INTUITY metal detector achieves maximum metal detection performance with the Multi-Simultaneous-Frequency Technology. The INTUITY is particularly suited for products that exhibit high product signals (product effect). The product signals are eliminated and the smallest metal contaminants are reliably detected.

### Benefits

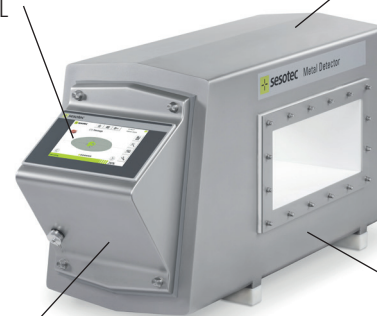
- Multi-Simultaneous-Frequency Technology enhances detection
- Elimination of product effect for pure clean metal signals
- Ball-size forecast, displaying the predicted sensitivity level

## Hardware design facts

The robust and hygienic case design is IP69 rated and is proven for the harshest washdown environments with the optional additional display cover. All electronic components are well shielded, durable for long life in harsh industrial environments. INTUITY is available with a custom Sesotec conveyor system complete with reject device to suit the application.

Innovative user interface INTUITY CONTROL

Highest metal detection performance with Multi-simultaneous-frequency technology



Ergonomic position of control panel in operation unit

Robust design - ready for wash down and reliable for long life

### Benefits

- Durable hardware, ready for daily wash down
- 7" Touch display and USB port at the interface
- Robust design – electronics and coil
- Optional Ethernet port
- Hygienic design for easy cleaning

## Complete conveyor systems available

Complete systems include INTUITY metal detector, conveyor and additional equipment according to customer needs and certain standards like IFS, BRC, M&S.

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## Sesotec system world



### Detecting and separating contaminants:

Removing contaminants:

- metals
- plastics
- glass
- ceramics, porcelain, stones
- and many others

Removing from (good material):

- bulk materials
- liquids and pastes
- individually packaged product
- packed and loose items

Product types:

- end-products (food, textiles, plastics etc)
- industrial raw materials
- recycled materials

can be integrated into all types of conveyor systems



### Detecting and separating sub-standard products:

Qualitative defects:

- incorrect colour
- agglomerations
- breakages
- air inclusions in packs
- incorrect positioning / distribution

Quantitative defects:

- incorrect weight
- count errors (incorrect number of items in package)

Product types:

- end-products (food, textiles, plastics etc)
- industrial raw materials
- recycling materials

can be integrated into all types of conveyor systems



### Sorting mixed materials into single fractions:

Types of material:

- glass
- plastics
- metals
- and many others

Delivery flows:

- bulk materials
- individually packaged product

can be integrated into:

- conveying systems
- bulk material flows

## Operating Companies:



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