

THS/MN

FERROUS-IN-FOIL METAL DETECTOR FOR QUALITY CONTROL



THE THS/MN
METAL DETECTOR
HAS BEEN
ESPECIALLY
DESIGNED FOR
THE INSPECTION
OF PRODUCTS
IN ALUMINUM
FOIL TRAYS AND
WRAPPINGS

Very high Sensitivity to ferrous and to all magnetic metals

Best ferrous in foil performances

Full compliance with HACCP criteria

**250 product data memories, selectable by local programming,
bar code reader or network software**

Completely housed in AISI 316L stainless steel

High level of electronic and mechanical reliability

**Programmable via local keyboard and display
or through external network**

www.ceia.net



THS/MN FERROUS-IN-FOIL METAL DETECTOR

CEIA THS/MN Metal Detector **detects ferrous and magnetic metal contaminants** accidentally present on industrial products, with levels of sensitivity, immunity to interference and response speeds designed to satisfy the strictest quality control requirements.

This ferrous-in-foil metal detector has been especially **designed for the inspection of products in aluminum foil trays and wrappings**. THS metal detectors' wide bandwidth allows **maximum-sensitivity operation at both high and low transit speeds**.

The THS metal detector electronics unit can either be programmed locally, via a keypad and display of 80 alphanumeric characters, or be controlled from a remote computer via a standard RS-232 serial interface, or be linked into a local computer network through a RS-485 interface.

The THS Report management software (optional) provides statistical data on the actions carried out by the detector, on the periodic tests and on variations in the parameters, in line with **ISO 9001 specifications on traceability data**.

TECHNICAL SPECIFICATIONS



- Very high sensitivity to all magnetic metals
- Extremely high immunity to environmental interference
- Digital signal processing (DSP) with automatic compensation for the "product effect"
- Local or remote programming of operating parameters (product type, transit speed, signal analysis, external activator commands, etc.)
- Easy-to-read alphanumeric display
- 250 set-up memories for different products
- Programming access protected by 5 local and 1 remote password levels
- Audible and visual alarms
- Bar-graph indication of signal level
- Internal self-diagnosis
- Stainless steel construction to IP65 protection level

- Inputs for alarm signaling of *bin full* and/or *confirm ejection*
- Auxiliary inputs and outputs available for slave devices and external controls

ACCESSORIES / OPTIONAL

- Input for connection to a optional bar code reader
- RS-485 network interface
- Possibility of including an inverter to control the motor (**Conveyor Control System**) in the power supply box
- Test reference samples: ferrous, non-ferrous and stainless steel
- **MD-CAD**: computer aided design for the metal detector installation
- **THS Report**: software for management of statistical data, periodic tests and variations in the parameters
- **MD Scope**: software for oscilloscope simulation and terminal operations on CEIA metal detectors

STATISTICAL ANALYSIS

- Contaminated product count
- Count of total number of objects inspected (with photocell)
- Product quality control **complies with ISO 9001 standards**

OPERATING MODES

- Basic mode with manual reset
- Delay mode, with immediate activation of alarm relay and delayed activation of ejection relay
- Synchronized mode, with immediate activation of alarm and ejection relays synchronized by photocell

INSTALLATION DATA

- Power supply: 115/230 VAC, -22%/+10%, 48-62 Hz; 60 VA
- Operating temperature: from -10°C (14°F) to +55°C (131°F)
- Relative humidity: 0 -95% (without condensation)
- RS-232 serial interface
- Possibility of connection to a computer or other control system, e.g. checkweigher
- Input for connection to encoder on conveyor belt for automatic measurement of product speed

CERTIFICATION AND CONFORMITY

- Conforms to current requirements for metal detection systems
- Complies with EC regulations and international standards relating to electrical safety and electromagnetic compatibility

APPLICATIONS

- Food industry



MD-CAD, COMPUTER ASSISTANT FOR THE METAL DETECTOR INSTALLATION AND PROGRAMMING



CONVEYOR BELT INTEGRATED WITH METAL DETECTOR

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