

THS

State-of-the-art metal detector for quality control

FULL COMPLIANCE



WITH HACCP CRITERIA

SUPERIOR SAFETY



AND PRODUCTION EFFICIENCY



CALL TOLL-FREE 800 227 5980

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HEAT AND CONTROL

www.heatandcontrol.com



Very high sensitivity to all magnetic and non-magnetic metals, including stainless steel

Autolearn and automatic tracking of the product effect

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

THS State-of-the-art metal detector for quality control

www.ceia.net

CEIA THS metal detectors detect 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**. THS metal detectors allow interception of all magnetic and non-magnetic metals, including high-resistivity stainless steel.

The **automatic tracking function** eliminates any further variations due to the "product effect". The wide pass band of the THS detector allows operation at maximum sensitivity at both slow and fast 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 and non-magnetic metals, including stainless steel
- Extremely high immunity to environmental interference
- Automatic balancing
- Digital signal processing (DSP) with automatic compensation for the "product effect"
- Quartz-controlled operating frequencies
- Local or remote programming of operating parameters (product type, transit speed, signal analysis, external activator commands, etc.)
- Easy-to-read alphanumeric display
- Memory holds 250 different products
- Autolearn of product effect
- 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** (IP66-IP69K available on request)
- Operating temperature: from 14°F (-10°C) to 131°F (+55°C)
- 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
- Inputs for alarm signalling of *bin full* and/or *confirm ejection*
- Auxiliary inputs and outputs available for slave devices and external controls

Accessories/Optionals

- 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

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, chemical, textile, pharmaceutical, paper and mining industries
- Cement works, timber production



CONVEYOR CONTROL SYSTEM



THE CONTROL PANEL (IP69K) IS EASY TO USE AND IS DESIGNED TO SIMPLIFY OPERATIONS

HEAT AND CONTROL

®

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