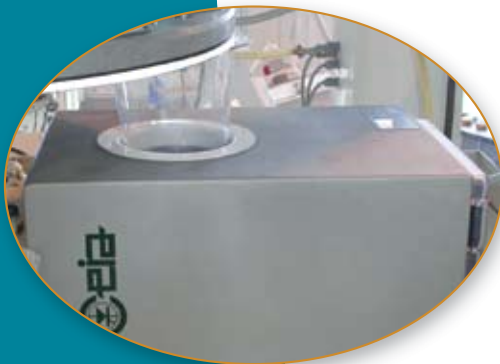


# THS/G

Industrial metal detector  
for free-falling product applications



**CALL TOLL-FREE 800 227 5980**

Phone 510 259 0500 Fax 510 259 0600  
info@heatandcontrol.com

**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

Designed to inspect powders, liquids, granules and other loose materials in free-falling applications

Full compliance with HACCP criteria

250 product data memories

Completely housed in AISI 316L stainless steel

Very high reliability

Direct programming, either using the incorporated keypad and display or from a remote station via a local communications network

# THS/G Industrial metal detector for free-falling product applications

www.ceia.net



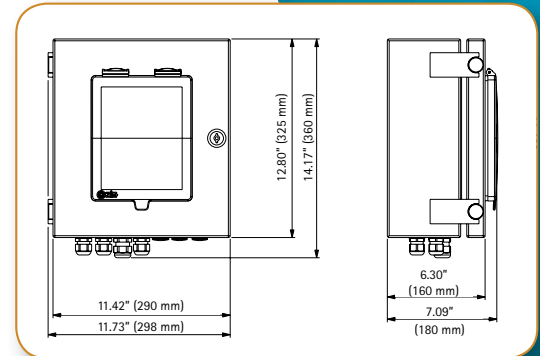
The THS/G is designed to inspect powders, granules and other loose materials transported in free-fall through tubes. When fitted with a deflector, the THS/G becomes a system that detects and removes any contaminating metals, both magnetic and non-magnetic.

Digital analysis of the signal provided by the antenna (DSP) allows extremely high levels of sensitivity, immunity to interference and operational stability to be achieved.

The very high detection speed of the THS/G allows the contaminated portion of product to be removed without slowing down the production flow.

Alternatively, when mounted on a packaging machine, the THS/G system is able to send a command to produce a double layer of packaging around the contaminated product. This can later be identified and removed from the production cycle manually.

The THS/G system is designed to communicate with external control systems, either connected directly or via a communications network.



## Technical Specifications

### General Features

- 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
- 250 set-up memories for different products
- Autolearn of product effect
- Programming access protected by 5 local and 1 remote password levels
- Audio and visual detection alarm
- Display of the level of signal by means of illuminating bars
- Internal self-diagnosis
- Designed for the inspection of liquids, powders, granules and other loose materials in free-falling applications
- Product quality control **complies with ISO 9001 standards**

### Installation Data

- Power supply: 115/230 VAC, -22 %/+10%, 48-62 Hz; 60 VA
- Operating temperature: from 14°F (-10°C) to 131°F (+55°C)
- Relative humidity: 0 -95% (without condensation)
- RS-485 network interface (optional)
- RS-232 serial interface
- Possibility for connection to a computer or other control system
- Auxiliary inputs and outputs available for slave devices and external controls

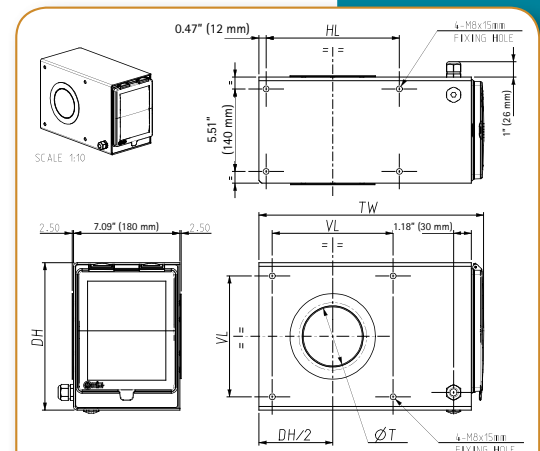
### Certification and Conformity

- 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
- Pharmaceutical
- Chemical industry
- Plastics industry
- Cement works

CONTROL UNIT



MODEL	T	TW	DH	VL	HL
THS/G-50	2"	15"	10"	8.07"	8.90"
	50	380	250	205	226
THS/G-100	4"	15"	10"	8.07"	8.90"
	100	380	250	205	226
THS/G-150	6"	17"	11.81"	10.04"	10.87"
	150	430	300	255	276
THS/G-200	8"	18.90"	13.78"	12"	12.83"
	200	480	350	305	326
THS/G-250	10"	20.87"	15.75"	14"	14.80"
	250	530	400	355	376

DETECTOR HEAD

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