

THS/G

INDUSTRIAL METAL DETECTOR FOR FREE-FALLING PRODUCT APPLICATIONS

THS/G-ATEX



CEIA THS/G-ATEX series industrial Metal Detectors are **certified according to EC Directive 94/9/CE** "relating to equipment and protection systems **designed for use in a potentially explosive environment**".

CEIA THS/G-ATEX series Metal Detectors have an IP66 IP69K protection rating and are certified as Group II, Category 2 D equipment.



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

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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**
- 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

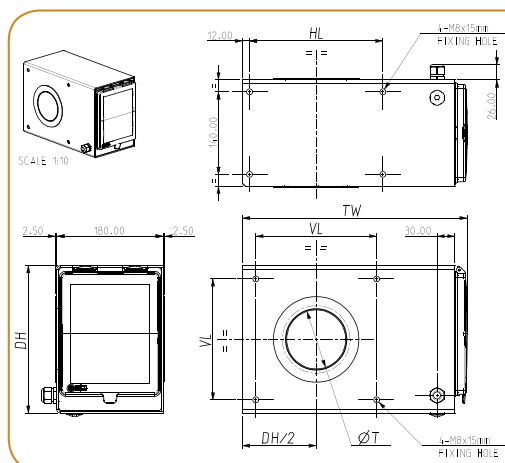
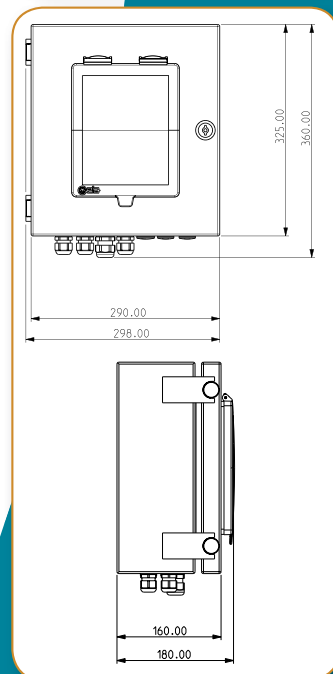
- Conforms to current requirements for metal detection systems
- Complies with EC regulations and international standards relating to electrical safety and electromagnetic compatibility

APPLICATIONS

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

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-485 network interface (optional)



DETECTOR HEAD

CONTROL UNIT

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



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