

# TT/HS



## Very high sensitivity Metal Detector for industrial use

- > **Very high sensitivity** to all magnetic and non-magnetic metals, including stainless steel
- > **Very high detection speed**
- > **High Immunity** to interference and vibration
- > **High level** of electronic and mechanical **reliability**
- > **Quick** and efficient **installation**



Your Local Distributor :

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Stainless Steel (IP65)  
Power Supply and  
Electronic Control Unit Box



Strong, lightweight antistatic composite  
duct for suspended mounting available  
on request



[www.ceia.net](http://www.ceia.net)

# TT/HS Very high sensitivity Metal Detector

CEIA TT/HS Metal Detectors detect metal contaminants accidentally present in pneumatic lines, with levels of sensitivity, immunity to interference and response speeds **designed to satisfy the strictest Quality Control requirements.**

TT/HS Metal Detectors, **designed for operation in high speed production lines**, allow interception of all magnetic and non-magnetic metals, including high-resistivity stainless steel. The apparatus is composed of an electronic control unit and a probe which is positioned in the path of the product to be inspected.

**DSP** (Digital Signal Processing) of the Metal Detector Antenna signals allows a very high degree of sensitivity to be achieved for all metals.

**Microcomputer control** and **complete programmability simplify installation**, and in certain applications can offer the capability of operating as production line controller using suitable sensors and actuators.

## Technical Specifications



### Features

- Very high sensitivity to all magnetic and non-magnetic metals, including stainless steel
- Adjustable sensitivity with wide dynamic range (300 levels)
- Extremely high immunity to interference and vibration
- Digital signal processing (DSP) with automatic compensation for the "product effect"
- Maximum detection speed: 50 m/s
- Automatic balance
- Quartz-controlled operating frequencies
- Local or remote programming of operating parameters (product type, transit speed, signal analysis, external actuator commands etc.)
- Programming access protected by different local and 1 remote password levels
- Remote programming and diagnostics possible via RS-232 interface
- Audible and visual alarms
- Built-in self-diagnosis system

IP65 protection level according to IEC 529

LCD display

Strong, lightweight antistatic composite duct for suspended mounting available on request

### Statistical analysis

Contaminated product count

Data memory of 1000 events stored

### Operating modes

Automatic or manual reset

### Installation data

Power supply: 115/230 VAC, -22 %/+10%, 48-62 Hz; 80 VA

Operating temperature: -10 ÷ +55 °C

Relative humidity: 0 -95% (without condensation)

RS-232 serial interface

### Applications

Textile, chemical, mineral, paper, wood, mineral and cement industries

### I/O

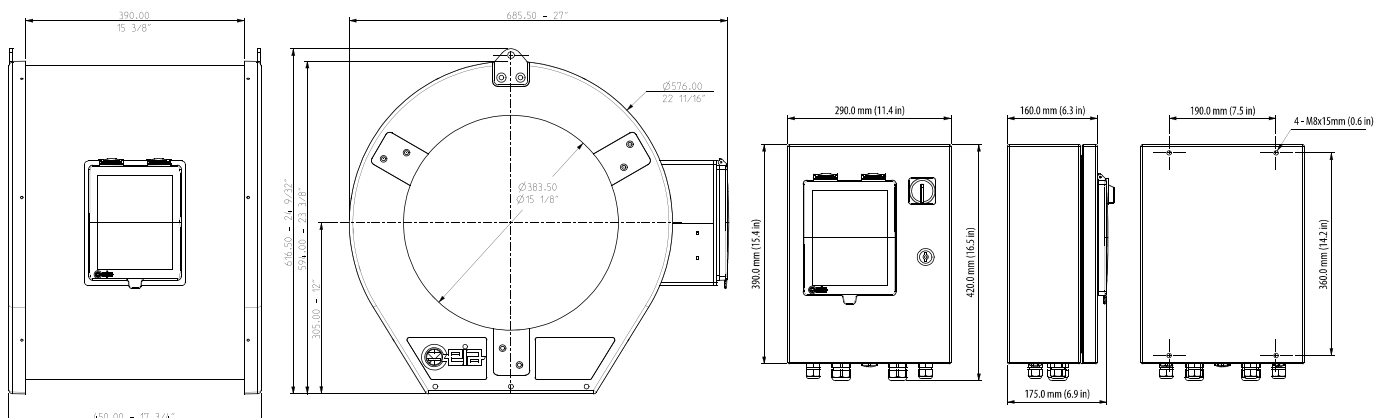
- INPUTS:
- spark detector
  - eject confirm sensor
  - bin full sensor
  - reset button
  - water level sensor
  - air pressure sensor
  - emergency stop button

- OUTPUTS:
- ejector
  - extinguisher
  - visual and optical indicators
  - ready
  - machine enable relays

### 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



Dimensions of the probe

Dimensions of the electronic control unit

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