

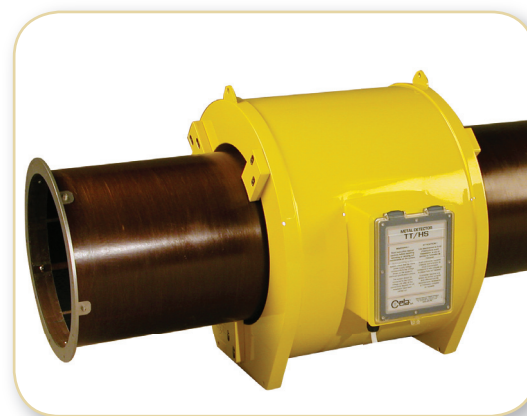
TT/HS

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**



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



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

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.

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: 14°F to 131°F (-10 to +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:

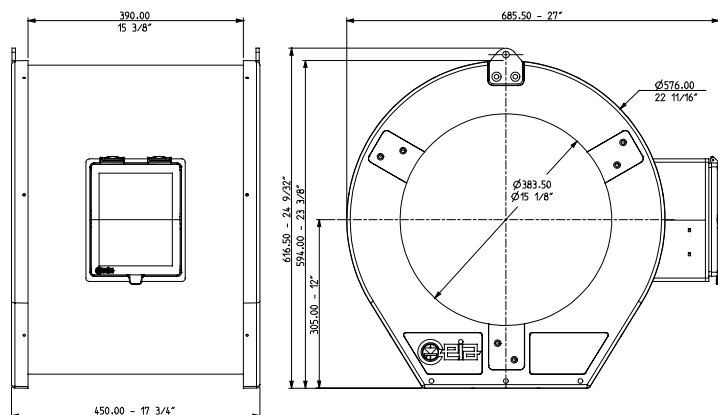
- ejector
- extinguisher
- visual and optical indicators
- ready
- machine enable relays

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

