



Thermo Scientific APEX 500/300 HD Ultra Reliable Metal Detectors



- Three-year warranty
- Best long-term stability
- Heavy washdown suitable
- Immune to vibration

The most robust APEX metal detector

for demanding environments and applications

The Thermo Scientific APEX 500/300 HD metal detectors are designed to thrive where typical metal detectors may fail, eliminating expensive downtime, service costs and repair bills. The unique design offers the lowest total cost of ownership possible and can improve operational efficiency in many applications where standard metal detectors are in use today.

Thermo Scientific™ APEX 500/300 HD

Construction	Stainless steel 316 straightlined case, ABS plastic control panel
Protection Ratings	IP69K
Operating Temperature	-10°C to +40°C (+14°F to +104°F)
Cleaning Temperature Range	5 to 65 °C (40 to 150 °F)
Relative Humidity	20% to 80% non-condensing
Electrical Supply	85 volts to 260 volts AC single phase plus earth ground; 47 Hz to 65 Hz, 100 watts maximum
Product Speed	0.5 m/min (1.7 ft/min) to 1000 m/min (3,300 ft/min)
Output Types	6 Relays outputs; Relays: 250 volt AC, 2 amp max. 50 volt DC, 1 amp max.
Output Allocation (selectable via menu)	Reject 1, Reject 2, Fault, Alarm, Warning, QA Lamp
Input Types	6 Inputs - Active 12v DC+12 volt auxiliary supply for input sensors
Input Allocation (selectable via menu)	Speed Sensor, Keylock, Product Select 1, Product Select 2, Product Trigger, Reject Confirmation 1, and Bin Full, External Suppression, External Alarm, External Reset
Communications	Optional ModBus serial or Ethernet modules
Safety and Export Approvals	cCSAus, CE, ATEX zone 22
Manufacturing Quality	ISO9001 certified
Help-Text, Users Manual Languages	English, Spanish, French, German, Italian, Dutch, Chinese, Czech, Russian, Polish, Thai, Koren and Brazilian Portuguese

Features and Benefits

- Unique case design and epoxy fill for reliable use in thermal shock environments
- 316 alloy stainless steel utilized for the higher corrosion resistance
- Standard APEX electronics and software for complete compatibility with other models
- Excellent long-term stability minimizing maintenance cost
- Phasing or Intellitrack XR to compensate or remove wet product effects
- Available with Thermo Scientific conveyor, drop through and pipeline systems designed to your specifications

Model Availability

APEX HD construction and design is available in a wide range of aperture sizes for the APEX 500 and APEX 300 metal detectors. Please note the AuditCheck option is not available with the APEX HD.

Overview

The Thermo Scientific™ APEX 500/300 HD metal detectors are specifically designed for the most demanding environments and applications. They can survive harsh washdown, mechanical vibration and sanitation with caustic chemicals assuring your production line has minimal downtime. The advantages of this design extend over a wide range of food processing and packaging applications. This extremely high level of quality and reliability is achieved by utilizing a robust solid fill epoxy designed for improved sealing and lifetime. Additionally, the metal detector case is made of 316 stainless steel to resist corrosion caused by harsh cleaning chemicals. Because we are so confident that the APEX HD is the most reliable metal detector available, it includes a standard three year parts and labor warranty.



APEX 500 HD on Thermo Scientific™ QUICKFIT™ conveyor (conveyor available in the Americas only)

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