



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.

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Thermo Scientific™ APEX 500/300 HD

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| 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)

thermoscientific.com/apexhd

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US and Canada 800 227 8891
Asia/Australia 800 227 8891
Mexico +52 55 5639 2184
Argentina +54 11 4334 3827
Chile +56 22 2378 5080

India +91 20 6626 7000
Italy +39 0 5217 8861
France +33 (0) 16 092 4800
Germany +49 (0) 20 882 493
Spain +34 (0) 91 484 5965

UK +44 (0) 17 8882 0300
Netherlands +31 (0) 76 579 5555
South Africa +27 11 776 0000
China 800 810 5118

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