



 **Cole-Parmer®**

THERMO SCIENTIFIC APEX 100 METAL DETECTORS

ENSURE FOOD PROCESSING SAFETY BY DETECTING ALL TYPES OF METAL CONTAMINANTS

- Excellent sensitivity to all metals due to proprietary multicoil design
- Application flexibility with dual frequency and gain operation
- Fully tested to meet IP69k/NEMA/ATEX requirements
- Remove product effects with traditional phasing or unique Intellitrack XR (IXR)
- Set up products with simple autolearn function
- Multilevel password protection to ensure correct operation in production
- Fe, non-Fe, and 316 stainless steel test cards, user guides, and software simulator CD included

Metal detection is one of the most common safety parameters in food processing inspection systems. The Thermo Scientific APEX 100 Metal Detector is a cost-effective and reliable means of conforming to the HACCP guidelines which drive food processing safety. To comply, the APEX 100 Metal Detector must be installed into the production line and managed as the "Critical Control Point."

To deliver greater accuracy in detecting contaminants in wet and salty products, the APEX 100 features the innovative Intellitrack XR (IXR) technology. This technology learns and cancels the sinusoidal X (reactive) and R (resistive) product signals, and only detects the metal contaminants. To maintain high accuracy over time, the IXR tracks product changes and adjusts the product signals to eliminate the risk of contaminants going undetected.

Installation and setup is quick and easy and no special training is required. The detectors come with everything you need including electrical fittings as well as clear wiring and mechanical mounting instructions. An easy-to-use icon-driven interface features a step-by-step quick reference guide, multilingual help text, and autocalibration.

Optimize your performance by matching the metal detector exactly to your conveyor width and product height with numerous aperture configurations available. Easily customize your metal detector with additional optional accessories such as MODBUS communications modules, field compression flanges, remote control mounting kit, alarm/fault warning lights and horn, and photo eyes for product inspection trigger.



ColeParmer.com

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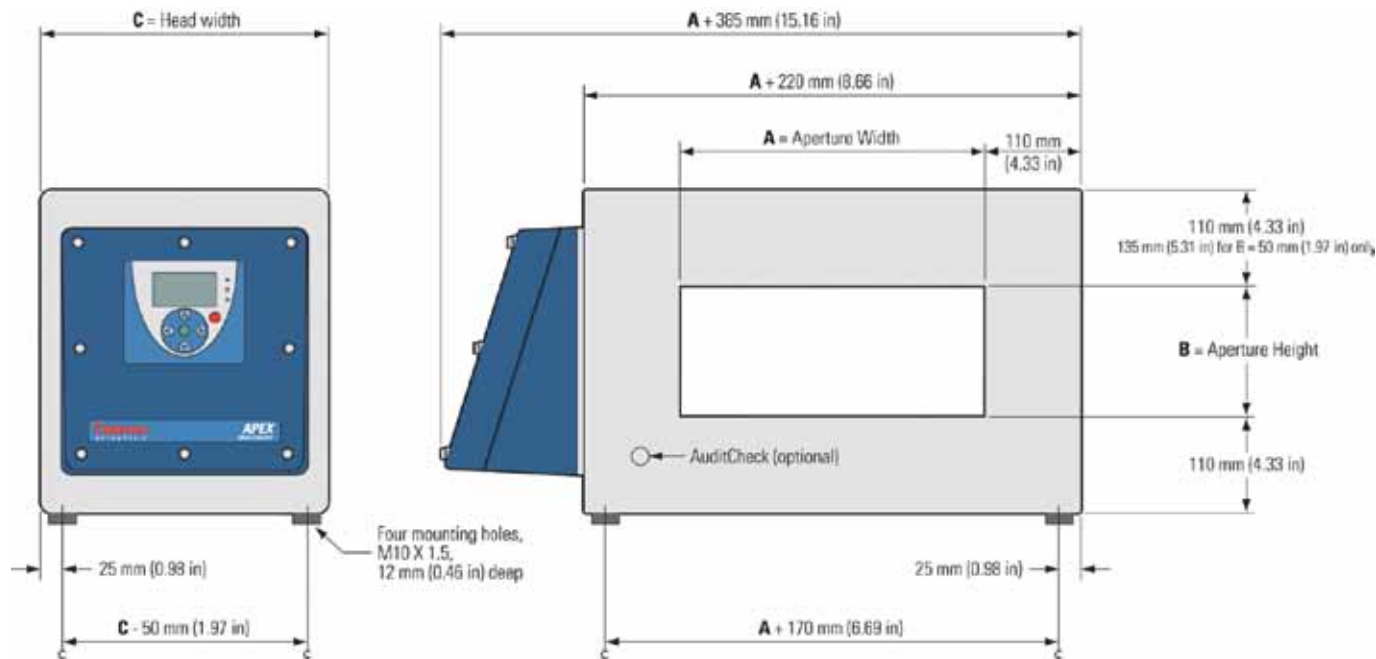
International customers

Call 847-549-7600 to reach our
 International Sales Department
 or contact your local dealer.



**FREE TECHNICAL
 APPLICATIONS ASSISTANCE!**

THERMO SCIENTIFIC APEX 100 METAL DETECTOR DIMENSIONS



GENERAL SPECIFICATIONS

Construction	Stainless steel 304 straightlined case, ABS plastic control panel
Protection ratings	IP69k, NEMA 4, ATEX zone 22, hazardous location Class II, Division 2, Groups F & G
Operating temperature	14 to 104°F (-10 to 40°C)
Relative humidity	20 to 80% noncondensing
Electrical supply	85 to 260 VAC single phase plus earth ground 47 to 65 Hz, 100 watts maximum
Product speed	0.5 m/min (1.7 ft/min) to 1000 m/min (3300 ft/min)
Outputs	Six relays: 250 VAC, 2 A max.; 50 VDC, 1 A max.
Output allocation (selectable via menu)	Reject 1, reject 2, fault, alarm, warning, QA lamp
Inputs	Six inputs – active 12 VDC + 12 V auxiliary supply for input sensors
Input allocation (selectable via menu)	Speed sensor, keylock, product select 1, product select 2, infeed PEC, reject confirmation 1 (bin full), reject confirmation 2, external suppression
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, Russian, Czech, Polish

APEX 100 SIZES

Smallest aperture dimension (A or B)	Head width (C)
1.97 in. (50 mm)	11.61 in. (295 mm)
2.95 in. (75 mm)	11.61 in. (295 mm)
3.94 in. (100 mm)	11.61 in. (295 mm)
4.92 in. (125 mm)	11.61 in. (295 mm)
5.91 in. (150 mm)	11.61 in. (295 mm)
6.89 in. (175 mm)	11.61 in. (295 mm)
7.87 in. (200 mm)	11.61 in. (295 mm)
9.84 in. (250 mm)	12.99 in. (330 mm)
11.51 in. (300 mm)	12.99 in. (330 mm)
13.75 in. (350 mm)	14.96 in. (380 mm)
15.75 in. (400 mm)	14.96 in. (380 mm)
17.72 in. (450 mm)	14.96 in. (380 mm)
19.69 in. (500 mm)	18.90 in. (480 mm)
21.65 in. (550 mm)	18.90 in. (480 mm)
23.62 in. (600 mm)	18.90 in. (480 mm)

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