

Thermo Scientific APEX 100 Metal Detectors

Enhance food processing safety by detecting metal contaminants

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

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

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

- Sensitive to all metals—proprietary multicoil design
- Remove product effects with traditional phasing or unique Intellitrac XR (IXR)
- Dual frequency and gain operation deliver application flexibility
- Fully tested to meet IP65/NEMA/ATEX requirements
- Set up products with simple autolearn function
- Multilevel password protection to ensure correct operation in production
- Fe, non-Fe, and 316 SS test cards, user guides, and software simulator CD included



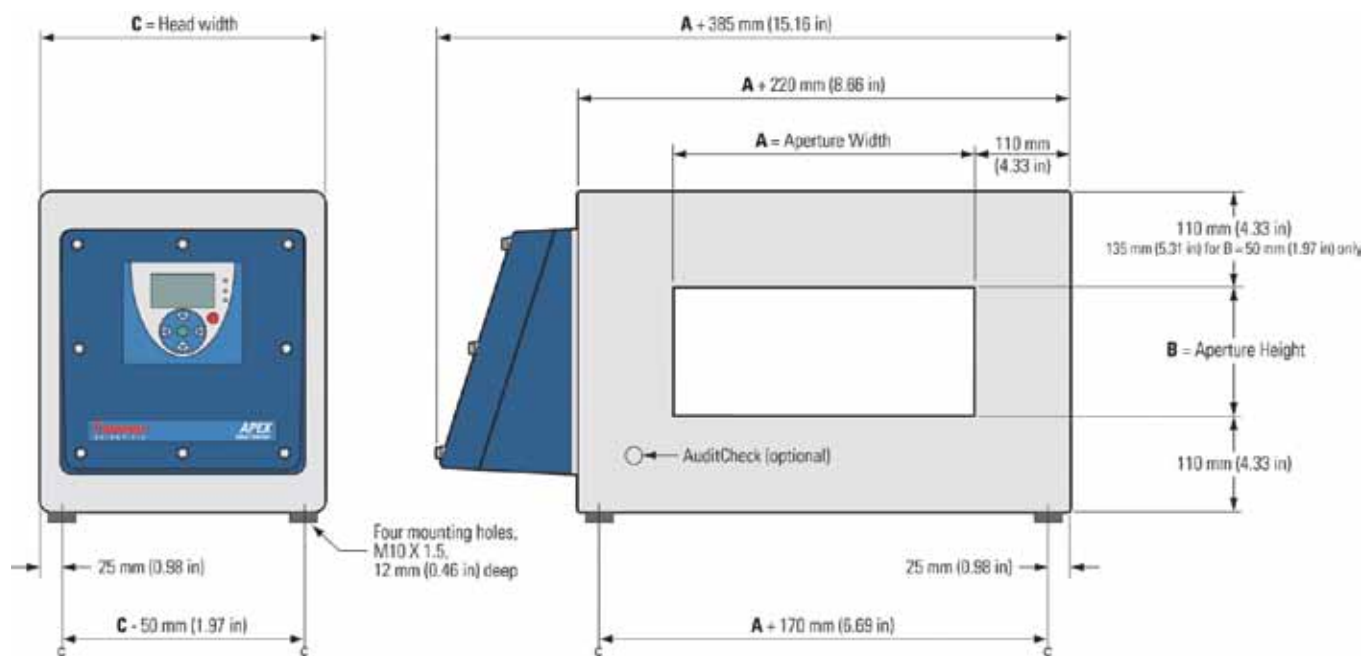
Order from Davis Instruments any of these three ways:

Phone: 800-358-5525

Fax: 800-433-9971

Web site: www.davis.com

Thermo Scientific APEX 100 Metal Detectors



General Specifications

Construction	Stainless steel 304 straightlined case, ABS plastic control panel
Protection ratings	IP65, 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)

For additional configurations not listed, call our technical Application Specialists at **800-358-5525**

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