

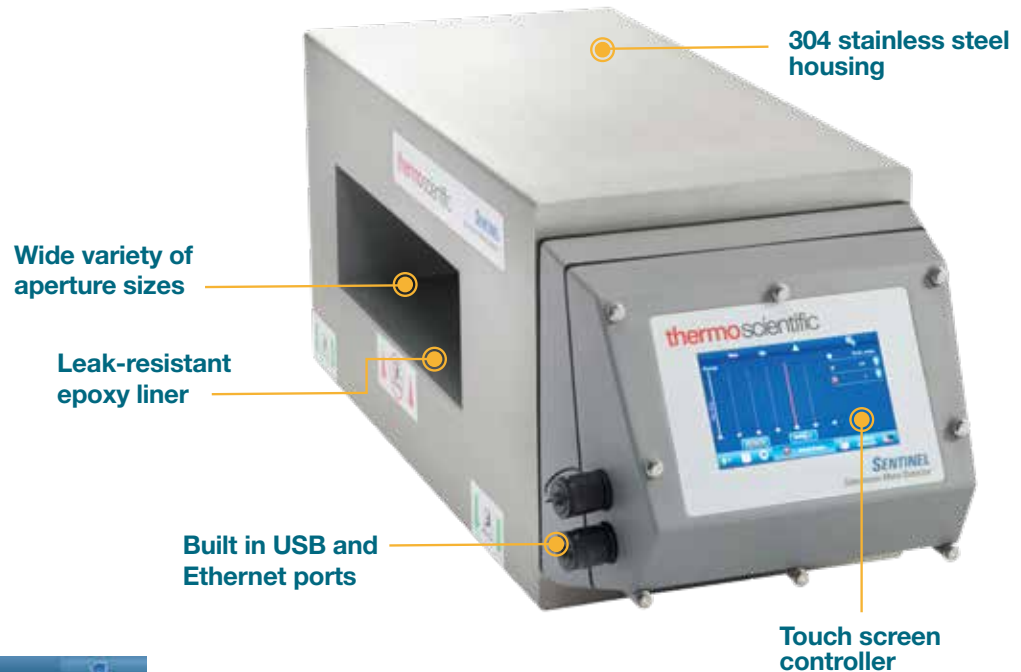


Achieve a higher level of
food safety and quality

Maximize consumer safety and brand protection with the
Thermo Scientific Sentinel 1000 Selectscan Metal Detector



The Thermo Scientific™ Sentinel™ 1000 Selectscan Metal Detector ensures a high probability of detecting metal contaminants, increasing safety and operational efficiency.



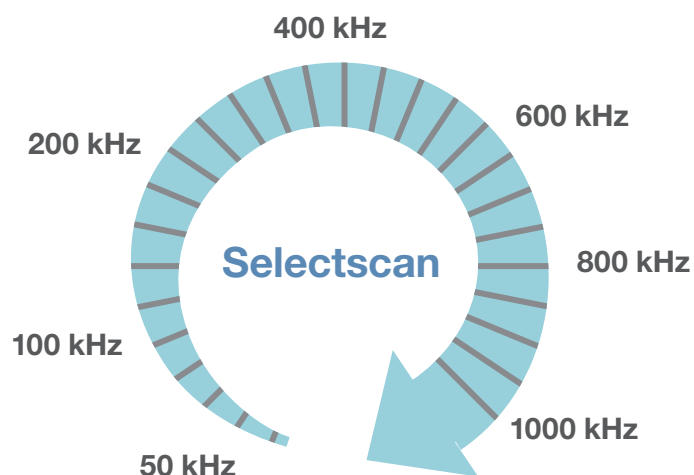
- Intuitive software menus
- Advanced statistics and logging for traceability
- Autolearn: Rapid set up for optimal detection
- Application memory
- Multiple languages

Features and benefits

Performance	Meets compliance requirements with global food safety standards and retailer codes of practice with up to 25% improved sensitivity
Selectscan	Select the best frequency for your application from 50-1000 kHz to increase the probability of detecting ferrous, non-ferrous and stainless steel contaminants
Autolearn	Rapidly establish optimal settings to improve operational efficiency
Touch screen controller	Intuitive menu layouts for ease of operation
Noise Scan	Avoid frequencies susceptible to electromagnetic interference from the plant environment to optimize performance and increase product safety
IP69K	IP69K rating for harsh environments requiring high pressure sanitation

Selectscan

Select the ideal frequency for your application, from 50 to 1000 kHz, to maximize the probability of detection.



Autolearn



Autolearn rapidly guides a user through product set up to maximize operational efficiencies and detection performance, supporting improved plant efficiency.

Applications

Superior performance for a wide variety of applications



**Powders,
grains, nuts**



Pasta



Fish



**Convenience
foods**



Cereal



Bakery



Confectionery



**Meat and
poultry**



**Personal
care and
cosmetics**

Application and metal detection specifications (Sentinel 1000 Metal Detector)

Frequency Range	50 to 1000 kHz, Selectscan single selectable frequency
Sensitivity	Detects contaminants up to 25% smaller in volume
Footprint and Aperture Placement	Same as APEX 500 Metal Detector for easy upgrade
Aperture Sizes*	Width: 75 to 2000 mm, Height: 75 to 600 mm. Increments of 25 mm up to 200 mm and 50 mm above 200mm
Construction	Stainless steel 304 straightline finished case. Food contact-safe ABS front panel
Metal Free Zone	1.5-2x smallest aperture dimension, can be reduced with optional flanges
Human Machine Interface (HMI)	7 in (178 mm) diagonal, high-intensity color touch screen
Product Speed	0.5 m/min (1.7ft/min) to 80 m/min (262 ft/min). Encoder input highly recommended.
Output Types	8 relay outputs; 250 volt AC 2 amp max. 50 volt DC 1 amp max 8 digital sourcing (PNP) outputs, 24VDC with capacity of any two at 500 mA, the rest at 30 mA average each
Output Allocation (Software Selectable)	Reject 1, Reject 2, Shutdown, Alarm, Warning
Input Types	8 Inputs; Active 24VDC switch selectable as NPN or PNP
Input Allocation (Software Selectable)	Speed Sensor, Infeed Photo Eye, Reject Confirmation and Bin Full, External Alarm, External Reset
Languages	English, Spanish, Italian, French, Chinese, German, Dutch, Portuguese, Polish, Russian, Czech, Thai

*Not all combinations are possible; contact Thermo Fisher for details.

Environmental, electrical and operational specifications

Metal Detector Ambient Temperature	-10° to +40°C (+14° to +104°F)
Product Temperature in Aperture	-10° to +55°C (+14° to +131°F)
Maximum Washdown Temperature	55°C (131°F)
Relative Humidity	20% to 80% non-condensing, one way breather valve standard
Electrical Requirements	100 volts to 240 volts AC single phase plus earth ground; 50 Hz to 60 Hz, 0.6 to 1.2 amps
USB Port	Watertight USB 2.0
Ethernet Port	Watertight Ethernet port for Teamviewer connection. This port is not available when the Sentinel is used in combination with a checkweigher (combo system).

Conformance tests and certifications

Protection Ratings	IP69K
Export and Safety	cCSAus, CE
Manufacturing Quality	ISO 9001 certified

Available options

- Welded field compression flanges to reduce metal-free zone in limited space applications
- Heavy-duty flip up polycarbonate control panel cover for extra protection
- LED alarm/fault lights and horn
- A wide variety of integrated conveyors available
- Conveyor adapter kits available for existing conveyor installations

Find out more at thermofisher.com/sentinel1000