

Metal Detector Thermo Sentinel™ Multiscan.

Multiscan metal detector
for demanding applications.



The metal detector you've been waiting for

The Thermo Scientific™ Multiscan Metal Detector Sentinel™ uses innovative technology to overcome the limitations of traditional one or two fixed frequency metal detectors. This avoids undetected contamination, especially in the case of sophisticated, conductive products.

With the Multiscan technology, the metal detector works with up to five selectable search frequencies. This means that impurities can be detected that are up to 70% smaller than with conventional devices. The risk of an undiscovered metal part is thus reduced to almost zero. It's like having five metal detectors in one device.

Various options are available for the Sentinel™ metal detectors, such as compression flanges, certified test pieces, reject confirmation sensors, bin full sensors, as well as a large selection of individual transport systems.

SENTINEL METAL DETECTOR



Technical specifications:

| | |
|----------------------------|--|
| Search frequency range: | 50 ... 1000 kHz, Multiscan works with up to five frequencies. |
| Sensitivity: | Detects metals that have a volume up to 70% smaller than the previous model APEX 500 (if the application test is successful). |
| Construction: | Housing and operating front made of stainless steel EN 1.4301; HD option: stainless steel EN 1.4401 AISI 316. Three optional outlet linings for intensive wet cleaning or high temperature. |
| Product speed: | 0.5 m / min ... 80 m / min; Speed sensor strongly recommended. |
| Outputs: | 8 relay outputs: 250 V AC; 2 A; 50 V DC 1 A. 8 PNP outputs: 24 V DC; any two 500 mA, the others 30 mA each. |
| Assignment of outputs: | Reject 1, reject 2, fail, alarm, warning. |
| Inputs: | 8 inputs: 24 V DC active; NPN or PNP selectable. |
| Assignment of inputs: | Speed sensor, light barrier, reject confirmation 1, bin full, external alarm, external reset. |
| USB interface: | USB 2.0, waterproof. |
| Power supply: | 100 ... 240 V AC; 50 ... 60 Hz; 0.6 ... 1.2 A. |
| Ambient temperature: | -10°C ... +40°C. |
| Product temperature: | Standard: -10°C ... +55°C HD option: max. 40°C PVDF option: max. 120°C |
| Max. downwash temperature: | 55°C; HD option: 65°C; PVDF option cannot be washdowned (for dry applications only) |
| Relative humidity: | 20% ... 80%, non-condensing |
| Protection: | IP69K; with HD option including thermal shock protection. |

Application examples:



EmWeA Prozessmesstechnik e.K.
Günzerode Am Hagen 3
99735 Werther
Germany

Any question?

Phone: +49 36335 3800-0
Telefax: +49 36335 3800-10
info@emwea.de
www.emwea.de

© EmWeA Prozessmesstechnik e.K. • Subject to change without prior notice!