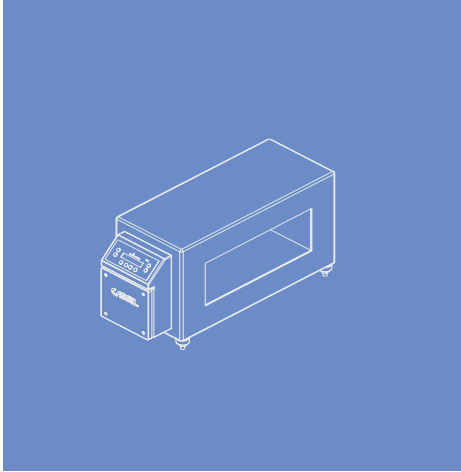


METAL SHARK® BD

Conveyor metal detector
for packaged and loose products



METAL SHARK® - The new generation in metal detecting technology

Introducing the METAL SHARK® presenting a completely new design in high sensitivity metal detectors. The METAL SHARK® provides outstanding sensitivity, accuracy, stability and precision product-effect-compensation.

The METAL SHARK® features the latest four channel DDS (direct digital synthesizer) and DSP (digital signal processor) technology. These technologies provide outstanding product-effect compensation. High processing speed, DDS and DSP makes the METAL SHARK® the leader in digital metal detection.

Digital balance control - levels temperature and humidity influences.

Auto calibration - fast and easy set-up.

Digital frequency & phase control avoid any drifts. Once calibrated keeps the set-up forever. No need for re-calibration.

Digital noise filters eliminate undesirable signals such as vibrations and shocks.

Multi-channel technology for the optimum recognition of all metals; ferrous, non-ferrous and stainless.

Power supply: Wide input 85-265 V AC works great even with unstable and poor power sources.

Automatic diagnostics - possible functional defects of the device are displayed on a separate output contact.



METAL SHARK® BD

Typically, the BD types are used in conveyor belts and provide highest performance in detecting magnetic and non-magnetic metals. Different methods are available to reject metal objects (pusher, belt stop + alarm etc).

Industrial design

Sensor and control unit housing are made of sturdy stainless steel, appropriate for use in the food industry. With a maintenance free design and high quality construction, for reliable operation in the most challenging industrial environments



Easy handling

In practical use, settings of metal detectors often need to be checked quickly and reliably during production. Cassel attached great importance to user-friendliness: The software is self-explanatory: An interface-manager leads the user step by step through the menus that have to be adjusted. E.g. product teach is done with one-button-push.

Intuitive operation

The display shows only the information that is really required. Reduction to the essential makes operation clear and transparent.



Product library

The characteristics of 50 different products are stored and recalled here.

Auto calibration

Provides simple and quick learning of product characteristics for product effect compensation. Pre-set product properties for DRY, WET, FROZEN, ALU FILM, VIBRATION and SHOCK makes new product setting exceptionally easy and reliable.

Operation History

Events such as metal detections or parameter settings are stored in a log list, including date and time and can be read on the display or exported via serial or ethernet link.



Performance validation

According to HACCP the metal detector is a critical control point and therefore, it must be checked regularly. The performance validation automatically prompts the operator to test the performance of the Metal Shark at pre-set intervals.

Maintenance-free - Save your service budget

Maintenance-free - the METAL SHARK digitalized circuitry ensures many years of reliable performance. The electronics are 100% computer calibrated with every power on. A frequent calibration service is not required. The METAL SHARK® saves your service budget.



All electronic circuits are miniaturized thanks to the latest state-of-the-art SMD-technology. All components are mounted on one multi-layered board providing advantages in noise immunity and reliability. Just in case - board replacement can be done by most electricians.



Sensor design without dirt traps

The tunnel aperture is encapsulated with Epoxy. This high-quality design assures a dry and hygienic sensor for many years. The epoxy is not only a sealing, it is a solid block.

High pressure washdown option

The Shark electronics is installed inside a second SS enclosure. The aperture opening is longterm sealed and protected with a special coating. The unit is suitable for daily steam-hose cleaning with max. 1000 psi. This feature has been approved in sausage productions with many washdowns a day. Sensor head and control unit exceed Ip67 (Nema 4x).



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