

## METAL SHARK® IN LIQUID

Inline metal detector  
for fluid and pastry 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.

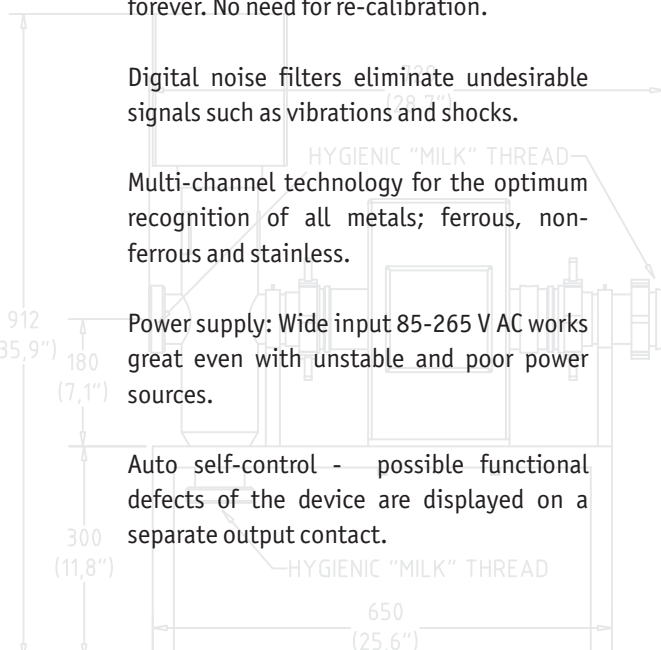
Digital frequency & phase control avoid any drifts. Once calibrated keeps the set-up forever. No need for re-calibration.

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.

Auto self-control - possible functional defects of the device are displayed on a separate output contact.



### 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

### Throughput pipe under high-pressure

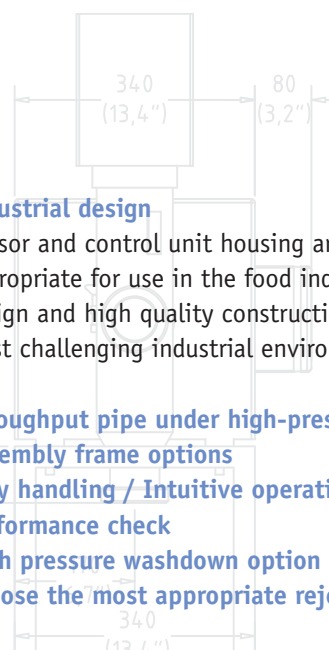
### Assembly frame options

### Easy handling / Intuitive operation

### Performance check

### High pressure washdown option

### Choose the most appropriate rejector for your application





### Throughput pipe under high-pressure

Special care has been taken to design a reliable high pressure throughput piping. The sturdy pipe resists high pressures up to 16 bar (220 psi). Stainless pipe flanges can be tri-clamp, milk-thread and special aseptic links. The standard pipe is made of PVDF plastic, suitable for high-temperature and CIP/SIP cleaning ability.

Available pipe diameter are 40/50/65/80/100 mm (1½ / 2 / 2½ / 3 / 4 inch).

### Performance check

According to HACCP the metal detector is a critical control point and therefore, it must be checked regularly. A special inspection hole in the pipeline allows to test the detector function regularly and easily. To this aim a flexible test stick with small metal balls is pushed through the pipe.

### 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 an one button push.

### Intuitive operation

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

### Assembly frame options

The hygienic design is easy to clean and all tubing are complete closed welded on all sides. Available options are:

Floor stand, with/without castors

Wall mounting frame

OEM frames to adapt into other machinery

Special sausage stuffer frame

Control unit attached to sensor / control unit for separate wall mounting with link



### High pressure washdown option

The Shark electronics sits inside a second SS enclosure. The aperture opening is longterm sealed and protected.

Thus makes the unit 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 meet IP67 (Nema 6P, 12).



### Choose the most appropriate rejector for your application

With the reject valve metal objects are separated out of the stream promptly.

Cassel has different valve designs available:

Butterfly valves are operationally reliable, easy to maintain and have especially been developed for CIP/SIP applications.

Ball Valves are used in a wide variety of high pressure or aseptic applications. A full unrestricted flow that allows no product restrictions through the valve.

The EX-PWC valve is designed even for flowing products with non-fluid components.

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