METAL DETECTOR SHARK® BD

EmWeA ®

Metal Detector SHARK® BD.

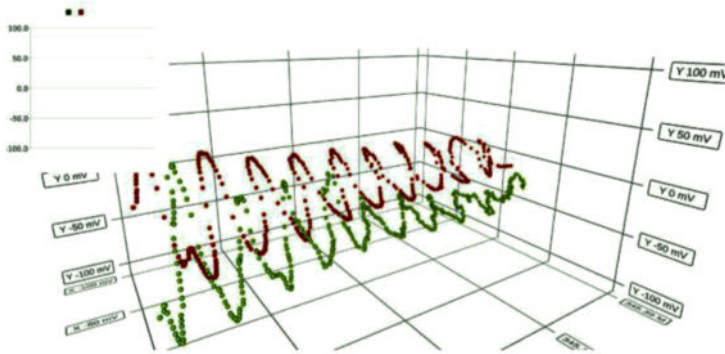High-performance metal detector for belt conveyors, slides, etc.

Highest reliability throughout the detection area thanks to 4-quadrant technology.

High Performance Metal Detector

The METAL SHARK® BD metal detector can be used as a standalone unit or in combination with conveyor belts or slides. Using 3D detection technology, it detects even the smallest magnetic and non-magnetic metal contaminants (iron, stainless steel, aluminum, etc.) precisely and reliably, even under difficult conditions.

Various options are available for the SHARK® BD metal detector, such as high and low temperature versions, versions for hose cleaning (LPW) or high pressure cleaning (HPW), certified test specimens, network connection or signal devices.

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4 Quadrant Technology

The 4-quadrant technology has developed into the third dimension: Supplemented by *MultiPhase* and *BoostFactor,* three-dimensional signal signatures of your products are created – as unique as a fingerprint.

BoostFactor

Up to 50% more accuracy – the SHARK® metal detector with 3D detection detects stainless steel up to 1 mm smaller than conventional detectors.

MultiPhase

Continuous adaptation to changing conditions for even more stability. The SHARK® metal detector with 3D detection can easily handle frozen or heated products, changing product orientations or temperatures, and cooled, heated or humid environments.

Technical Specifications:

Construction:	search head and control unit made of stainless steel EN 1.4301 AISI 304
Product speed:	0.5 m/min ... 80 m/min; with speed sensor in case of variable speed
Outputs:	2 relay outputs; Failure and Metal;
	8 binary outputs; configurable; 24V DC; e.g. for acoustic alarm
Inputs:	8 binary inputs; configurable; 24V DC; e.g. for rotary encoders, product recognition, buttons
	2 analogue inputs 0 ... 10 V DC (optional 4 ... 20 mA)
Serial interface:	1 RS232 (optional: USB, Ethernet)
Power supply:	110 … 230 V AC ±5%; typically 20 W; max. 60 W
Operating temperature:	-20 °C … +40 °C
Product temperature:	--30 °C … +40 °C (optional -40 °C ... +60 °C)
Relative humidity:	20% ... 90%, non-condensing
Protection class:	IP65, optional IP66 oder IP67
Product compensation:	250 storage spaces, learning assistant
Options:	USB port; splash water cover; operating temperature -40 °C … +55 °C; product temperature up to +120 °C; protection class IP66/67; strobe light; alarm horn
Certificates:	CE

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Any question?

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