CASSEL
INSPECTION

- Optimally adapted to the monitoring of entire tree trunks

- Maintenance-free with automatic balance and calibration control

- Sturdy stainless steel design: particularly robust and with short metal-free zone

- Highest sensitivity with 4-quadrant technology

- Intuitive control and easy installation with autocalibration and Teach Assistant

- Maximum detection performance with highest reliability in the entire detection area due to 4-quadrant technology

- Simple setup with Teach Assistant

- Memory for up to 250 products

- Easy to use with intuitive and multilingual menus

- 4-level password system, automatic log out after time lapse

- Documentation of all events and metal messages

- Optional: Data transfer to USB interface or connection to the company network via SHARKNET® software

- Cyclical function monitoring with Performance Validation System (PVS)

- Robust against environmental influences such as high and low temperatures

- Sensor diameter up to 1,8 m

CASSEL Messtechnik GmbH
In der Dehne 10
37127 Dransfeld

phone: +49 (0)5502 911 50
fax: +49 (0)5502 911 532
info@cassel-inspection.com

METAL SHARK® OCTA
Metal detection for forestry and sawmills

METAL SHARK OCTA with Super Power Drive.

Function:

METAL SHARK® OCTA has been developed for industrial use in forestry and sawmills. Its octagonal shape makes it ideal for monitoring logs for metal contamination caused by screws, nails or tools.

It is typically installed in semi-circular shaped conveyor belts.

By means of the 4 quadrant technology it detects magnetic and non-magnetic metal contaminations (eggs, stainless steel, aluminium etc.) precisely and reliably even under difficult conditions.

Scope of Delivery:

- Detection unit (sonsor) OCTA
- Controller METAL SHARK® in stainless steel housing

Accessories & Extras:

- Xenon flashlight
- Acoustic signal generator (horn)
- SHARKNET® access for perfect documentation and device monitoring from a PC
- separate mounting of the controller (e.g. wall mounting) possible

Application:

- Protection of tools and machines from metal parts such as nails or screws
- Monitoring of particularly large products, especially suitable for tree trunks
- Monitoring of bulky goods on semi-circular conveyor belts

Industries:

- Wood (forestry, sawmills)
- Plastics
- Recycling
- Paper, cardboard

Specifications:

Electronics	Digital signal processor, digital frequency generation, digital balance control, automatic calibration, digital noise filters, integrated flexible control functions
Input	2 analog 0...10 V DC (option: 4-20 mA) 8 freely configurable 24 V DC signals, e.g. for encoders, product recognition, buttons
Output	2 floating: "error" and "metal" 8 freely configurable 24 V DC signals
Inspection method	High-frequency magnetic field, multi-channel operation, balanced receiver coils
Metal detection	Ferrous, non-ferrous (e.g. aluminium or copper) und stainless steel
Product compensation	250 memory locations, automatic product compensation, TeachAssistant
Enclosure rating	IP 54
Environmental conditions	standard: -20°C to +40°C / -4°F to 104°F, rel. humidity 30% up to 80% (non-condensing) optionally: -40°C / -40°F or +55°C / 131°F
Temperature of goods inspected	Up to +70°C / +158°F
Power Supply	One phase 110-240 V AC, 50/60 Hz, typ. consumption 20 W (max. 60 W)
Interface	RS232, LAN (optional, für SHARKNET®), USB (optional)
Maintenance	Maintenance-free, selfcalibrating sensors
Diagnostics	Integrated diagnostic software, automatic self-test

Optional extras:

SHARKNET®	The SHARKNET® software connects METAL SHARK® metal detectors with a central computer, providing centralized storage of all operating data plus batch and alarm documentation for HACCP and IFS compliance.
Fast Power Drive (FPD)	Significantly improves metal detection and reliability in industrial environments that do not meet electromagnetic compatibility standards, with different IP protection types and ATEX Zone 22 possible
Super Power Drive (SPD)	Improves metal detection by -0.5 to -1 mm in industrial environments that do not meet electromagnetic compatibility standards, with different IP protection classes and ATEX Zone 22 possible
Temperature extension cold	Temperature range extended to -40°C / -40°F Resin seals remain elastic at low temperatures. Special insulation, heated enclosure and other features
Temperature extension hot	Temperature range extended to +55°C / +131°F Adapted enclosure, additional thermal insulation, replaceable filter fan, heat exchanger and/or active cooling units

Sensitivities:

Ø Aperture (mm)	FE Edges (mm)	FE Center (mm)	FE Center with SPD Booster (mm / nuts)
1.300 x 1.300	5	14	10 - 12
1.400 x 1.400	5	14	10 – 12
1.500 x 1.500	6	15	11 – 13
1.600 x 1.600	7	17	13 - 15
1.700 x 1.700	7	18	13 - 15
1.800 x 1.800	8	20	M6 – M8

Sensitivities are highly dependent on the environment in which a metal detector is installed. The sensitivities mentioned here should therefore only be seen as guidelines.

Accessories:

Flashlight XENON red
Very bright conspicuous optical alarm, 24V DC, IP 65
RB 10-100V 2W Xenon beacon
suitable for tripod or wall mounting

Alarm horn
Alarm transmitter with very loud acoustic signal, 24 V/DC
suitable for tripod or wall mounting

Flashlight + horn on stand
Acoustic and optical alarm on stand, stainless steel,
with bright xenon flashlight red and horn for conveyor belt mounting

The CASSEL quality promise:

As a premier manufacturer, CASSEL is committed to the highest quality standards. For more than twenty-five years, our goal has been to ensure the uncompromising quality of your products. We supply customers worldwide in various industries, including food, plastics, pharmaceuticals, textiles, lumber and mining.

Contact:

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