



METAL SHARK[®] BIG pba

FORMING LINE METAL DETECTOR



Aperture width 800 - 4.500 mm (2,6 ft - 14,8 ft)
Aperture height up to 2.000 mm (4,6 ft)

More than 300 Cassel metal detectors installed worldwide in MDF, particleboard, OSB and other wood board production plants. An impressive list of references is available on request.

Preferred OEM supplier to leading MDF, particleboard and OSB equipment manufactures.



DIEFFENBACHER



Siempelkamp



Application range spans both thin and thick board production lines.

Aluminium housings provide Total Shielding against transient influences that cause false/nuisance tripping.

The most technologically advanced metal detector available ... exclusive 4 channel DDS and DSP microprocessor provides continuous accuracy and stability.

System 'learns' the product and aluminium paper. It automatically compensates and adjusts for such things as different species, moisture, VFDs and pitch, ensuring none false/nuisance tripping.

Antiradio Kit, AutoSens System, Vibration resistant

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Type	METAL SHARK BIG pba
Installation	Conveyor, typical horizontal, but each angle is applicable. Sensor head not able to divide.
Metal free zone Before/after detector	Fix and solid metal = 200 mm Moving / vibrating metal = 1,5x aperture height
Power supply	85-264 V / 50-60 Hz
Power input	100 Watts
Ambient temperature	-10...+50 C / 15...120 F
Product (food) temperature	-20...+80 C / 0...180 F
Degree of protection	Control unit IP65 (Nema 4x, 12) Sensor IP67 (Nema 6P, 12)
Sensor head	Aluminium alloy housing, Corrosion-proof
Control unit	Sheet steel housing , attached to the side of sensor head (Option: prepared for wall mounting, with link cable) Digital noise filters eliminate undesired signals. Automatic learning provides simple and quick learning of product characteristics for product effect and aluminium paper compensation .

Link cable	2,5 m(8,2 feet), with cable protection tube, applies only with wall mounting option for the control unit
Timer	yes, for reject device control Delay and duration adjustable from 0-9990 ms
Conveyor speed	25 - 2000 mm/sec. (1" - 6,6 feet/sec.)
Out signals	Metal relay changeover contact (max 250V/1A) Metal alarm signal for PLC (out 24V/20mA) Fault relay changeover contact (max 250 V/1 A) Reject device drive, e.g. solenoid valve (24V DC/30mA)
In Signals	Autospeed and Mat height signals (0/10VDC) Control of reject device (24V DC) Control reject success (24V DC) Remote metal reset push button (24V DC) Remote lock keyboard against unauthorized access (24V DC)
Logging interface	Rs232, e.g. printer to log process data Network interface Rs485 (Option)
Options	* Super Power Drive Booster * Belt splice detector * Big Metal 2. Alarm out