



Metal Detector METAL SHARK BIG

Applications:
Plastic recycling
Rubber production
Food related industries
Wood and paper processing
General purpose in heavy industries

Highest metal sensitivity
Aperture width 800 - 4.500 mm (2,6 ft - 14,8 ft)
Aperture height up to 1.400mm (4,6 ft)

Conveyor installation
Closed sensor head
Product effect compensation



Sensor head BIG



Digital control unit SHARK

Double protected for rough applications.

METAL SHARK BIG



Type	METAL SHARK BIG
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	Stainless housing , attached to the side of sensor head (Option: prepared for wall mounting, with link cable) Digital noise filters eliminate undesired signals. Product effect library - the characteristics of 50 different products can be stored and recalled here. Automatic learning provides simple and quick learning of product characteristics for product effect 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	Reject trigger, e.g. optical sensor (24V DC) Control air pressure 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 according HACCP Network interface Rs485 (Option)
Options	* Remote product selector switch * Customized conveyor design * Various belt types (Chain link, Polyurethan etc.) * Belt control unit Start/Stop/Reset with frequency inverter * Alarm flash light * Alarm horn