METAL DETECTOR mod. MDF-100

Metal detector for food industrial processes

AuTech
Automation Ideas and Solutions

100% made in Italy

MDF Metal Detector is a valid control tool to be used in industry production processes to detect metal contaminants which may accidentally be present in industrial products, with high sensitivity levels, immunity to interferences and response speeds so to satisfy the Quality Control standard requirements.

MDF Metal Detector is designed with a system formed by a conveyor belt or, in alternative, only the metal detector head may be supplied to be installed on existing conveyor belts or on external devices.
MDF is available both in monoblock version (control unit and head in the same container) and in separated groups.

The conveyor belt is made of a stainless steel framework. It is provided with a solid and compact structure, in respect and application of the correct regulations of food hygiene and production and it may be equipped with various accessories.
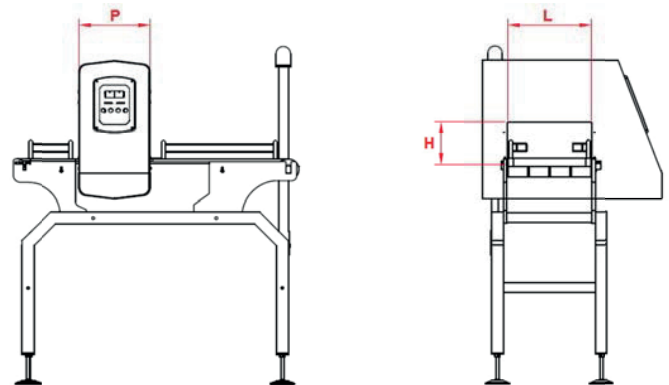
BASIC EQUIPMENT	ACCESSORIES
a. Conveyor belt cut to measure in width and length.	a. Ejection System.
b. Conveyor belt lock in case of alarm.	b. Visual, audible alarm indicators.
c. Food polyurethane or modular conveyor belt.	c. Conveyor belt edge profiles.
d. Fixed-speed conveyor belt.	d. Locking pivoting wheels.
e. Height adjustable feet.	e. Variable-speed Conveyor Belt.
	f. Box for Waste collection.

TECHNICAL SPECIFICATIONS

- Voltage: 110-240 Vac, 50-60 Hz.
- Power Absorption: 70 VA.
- Temperature Range: -10/+55°C.
- Relative humidity: 0-95% (non-condensing)
- Built-in RS232 serial interface board.
- Built-in RS485 serial interface board.
- Visual, audible, electric alarm indicator.
- Power supply board input protected with PTC and NTC.
- High sensitivity to all magnetic and non-magnetic metals, including stainless steels.
- Multi-frequency Technology for the highest sensitivity to the changing of the product effect.
- High immunity to environmental interference.
- Structure and components in AISI 304 stainless steel with IP65 degree of protection.
- Auto-acquisition and automatic tracking of the Product Effect.
- Password Access for user level programming.
- Password Access for operator level programming.
- Up to 50 products storable in memory, selectable in local programming.
- Programmability of all the parameters.
- Minimal maintenance.
- Metering signal proportional to the threshold setting.
- 400 levels of sensitivity.
- Filters selectable by programming.
- Totalizer for counting the rejected pieces.
- Alphanumeric LCD Display - 4 Rows by 20 Characters.
- Programming: 4 keys.
- Fully **CE** standards compliant .
- Fully in compliance with the International Standards for Electrical Safety and Electromagnetic Compatibility.
- Fully **ISO** – **FDA** – **HACCP** compliant.

SIZE

MODEL	L (mm)	H (mm)	W (mm)
MDF-100 -M1	350	125	300
MDF-100 -M2	350	250	300
MDF-100 -M3	350	305	300

TYPES OF EJECTORS

Piston   Air-Jet   Deviation