

## Digital Metal detector



### ■ SPECIFICATIONS

Standard Model		SBI-4012	SBI-4015
Product Weight		MAX 7Kg	MAX 10Kg
Aperture Width		400mm	
Aperture Height		120mm	150mm
Detection Height		100mm	130mm
Sensitivity	Fe(Φ)	0.6mm	0.8mm
	SUS304(Φ)	1.2mm	1.5mm
Length of Conveyor		1300mm	1500mm
Height of Conveyor		700mm - 850mm	
Belt Speed		27m/min	25m/min
Belt width		310mm	
Alarm Method		Alarm and Stop	
Power Supply		AC220V±10% 50Hz 250VA	
Weight		80Kg-100Kg	

- Attention:
1. The sensitivity is measured at the geometric center of the aperture when only Fe and SUS304 standard sphere through the search head;
  2. When the product is salted or watered, the sensitivity will be effected because of the conductivity. Always the sensitivity is indicated by the real sensitivity which the product can be detected;
  3. The aperture size can be made to order.

■ **INTRODUCTION**

HongKong SinBon Industrial Limited specializes in design, produce and sales of the instruments. With unremitting efforts our technicians developed SBI series metal detector. SBI series metal detector is adopted DSP with high sensitivity and simple operation widely used in many industries such as quick-frozen foods, dehydrated vegetables, meat processing, tobacco, chemical industry, etc.

SBI series metal detector is the latest product with higher sensitivity and more reliability.

The company will always adhere to the principle of continuous technology development. We sincerely hope to cooperate with broad customers to achieve new progress.



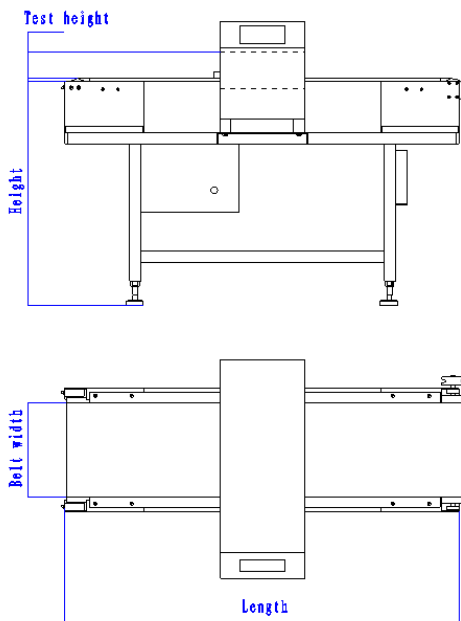
■ **THEORY**

The metal detector utilizes the electromagnetic induction theory to detect product: the search head is a “Balanced Coil” system which consists of three coils: one transmitter coil and two receiver coils. The two receiver coils are almost balanced statically.

When a product passes though the search head, the magnetic field is changed, the system is no longer in balance and the electric signal will be produced. The electric signal which is subsequently amplified and processed can be used to detect if there is a metal particle in the products.

■ **FEATURES**

1. Special structure designed search head;
2. Multi-functional operation interface;
3. Advanced auto-learn function;
4. English /Chinese/ Portuguese language Optional;
5. Wet product testing ability;
6. Simple and easy maintenance conveyor;
7. Optional reject systems;
8. Whole stainless steel 304 material, IP65;



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