Ensures High Product Quality, Protects Customers and Consumers

X-Ray Foreign Object Detector Description

The foreign object detector can accurately detect high-density foreign objects accidentally mixed into products during the production process. It generates clear and intuitive detection images that clearly show the shape and position of foreign objects, realizing the visualization and traceability of detection results, and effectively ensuring product safety and high quality.

Detect Various High-Density Foreign Objects

Based on the principle of X-ray absorption difference, it can accurately identify substances with higher density than the product. In addition to detecting various types of metals, it can also detect foreign objects such as glass, ceramics, stones, and bones.

| Metal | Glass | Ceramics | Stones | Bones | Shells | Resin | Hard Plastic |

Universal

Designed specifically for small and medium-sized products and packages, it is compatible with most products.

Large Channel

A larger-sized channel and higher load capacity enable it to accommodate the passage of larger and heavier products.

Bulk Material

Designed specifically for packaged and unpackaged bulk materials, it meets the requirements of continuous rejection and inspection.

Equipment Parameters

Detection Channel: Customizable

X-ray detector: 0.4mm/Customizable

X-ray source: 150W/240W/Customizable

X-Ray Leakage: ≤1μSv/h

X-Ray Irradiation Direction: Customizable

Interactive Screen: 19-inch Touchscreen

Operating System: Windows10

Language: Chinese/English/Customizable

Data Interface: USB/LAN

Machine Body Material: SUS304

Conveyor Belt Material: PU/Customizable

Conveyor Belt Height from Ground:

- 700+100mm Adjustable/Customizable

Conveyor Speed: 10~60 Meters per Minute

Conveyor Load Capacity: 20KG/Customizable

Working Power Supply: AC220/230V 50/60Hz

Working Environment:

- Temperature 5-35℃, Humidity 30%~85%
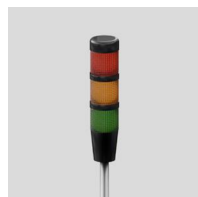
Detection Accuracy

As a reference, the larger the detection channel size, the lower the detection accuracy. For the model with a detection channel width of 250mm and height of 150mm, the detection accuracy in the no-load state is as follows:

- Metal Balls: ≥ 0.3mm
- Glass Balls: ≥ φ1.0mm
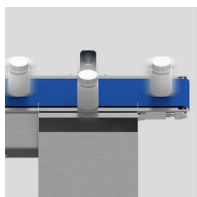- Ceramic Balls: ≥ Φ1.0mm
- Metal Wires: ≥ Φ0.2*2mm

However, the actual detection accuracy in production will be lower than that in the no-load state. For more information on the no-load accuracy or actual accuracy of other channel sizes, please contact our sales team. The final accuracy shall be subject to sample testing.
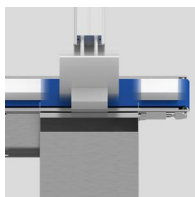
Alarm & Rejection System

The equipment comes standard with an audible and visual alarm light, offering diverse rejection methods. It is matched with rejection and collection solutions such as receiving plates, hoppers, and boxes, which can be fully adapted to different product production scenarios and supports customization.
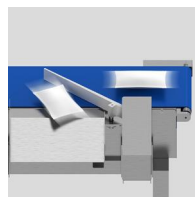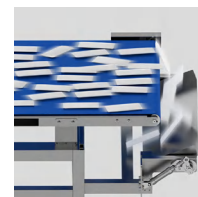
| Alarm | Air Blow Type | Push Rod Type | Toggle Rod Type | Drop-Down Type | Drop Type |