

Barrington Packaging Systems Group

Integrated Packaging Equipment, Materials, Production Services and Marketing Support

**Metal
Detectors**

BPS-MD-AL

Metal Detector for Foil Packages

Application: For detecting metal in foil- packaged products.

Features:

- Equipped with small, highly accurate magnetic sensor
- Detects metal even on moist or high temperature products.
- Ease of operation - no settings for individual products.

Specifications

Sensor	Magnetic Field				
Max. Product Wt.	1000g - 35.2oz				
Belt Width	250mm - 9.8"				
Detection Width	230mm - 9.05"				
Belt Speed	10-40m/minute - adjustable				
Max.Detection Height	30mm -1.18"	50mm -1.96"	70mm- 2.75"	80mm -3.15"	90mm-3.54"
Sensitivity	FEφ1.0mm SUS304φ1.5mm	FEφ1.5mm SUS304φ1.5mm	FEφ2.0mm SUS304φ2.0mm	FEφ2.5mm SUS304φ2.5mm	FEφ3.0mm SUS304φ3.0mm
Sensitivity Levels	5 Levels				
Alarm Method	Sound alarm and belt stoppage				
Display	5.7" Color Touch Screen				
Conveyer Length	1000mm - 39.4"				
Conveyer Height	800mm +/- 50mm -				
Power Source	220V-1phase-50/60Hz				
Weight	80kg - 176lbs				



Comparison

	BPS-MD-AL	Conventional Metal Detector	X-Ray Detector
Detection Method	Relative Permeability	Electromagnetic Wave	X-ray and image processing
Frequency	Audio Range 50Hz-20Khz	Electromagnetic Wave-33k-1Mhz	Electromagnetic Wave 10 ¹⁶ ~10 ¹⁸ Hz
Detection Ability			
Normal Package	Yes	Yes	Yes
Foil Package	Yes	No	Yes
Temperature/Humidity	No Influence	Strong Influence	No Influence
Sensitivity Adjustment	5 levels	Must be adjusted for different shape and density	
Warm-Up Time	7 seconds	Up to 30 Minutes	Very long time
Safety Cover	Not Necessary	Not Necessary	Necessary
Influence of Electromagnetic Wave and X-Ray	No Influence	Possible Influence of Electromagnetic Wave	Possible Influence of X-Ray
Operating Cost	Very Low	Low	Costly replacement parts

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