

# ADVANCED DETECTION SYSTEMS®

## PROTECTOR HD METAL DETECTOR

DETECTS FERROUS, NON-FERROUS, AND STAINLESS STEEL METALS



*Easy to Use*  
**STATE-OF-THE-ART  
ELECTRONICS**

*Dependable*  
**HEAVY DUTY  
CONSTRUCTION**



### DESIGNED FOR PLASTICS REGRIND & RECYCLING APPLICATIONS

The Protector HD metal detector is designed to protect shredding and granulating equipment from damage caused by metal contaminants in your product stream. Each Protector HD is built to your application specifications and sized for your equipment to provide outstanding detection levels. Advanced Detection Systems' proprietary AccuLearn software, built into every unit, can automatically adjust the detector's sensitivity based on your product's characteristics and environment.

### THE ADVANCED DETECTION SYSTEMS DIFFERENCE

For the past 30 years, Advanced Detection Systems has been developing technology so that each system performs reliably in the presence of power fluctuations, radiated noise and system vibration. In addition, Advanced Detection Systems developed patented state-of-the-art electronics that provide easy setup in the most demanding locations meeting your processing needs and reliably detecting metal contaminants.

### HOW WE HANDLE AFTERMARKET CARE

Advanced Detection Systems focuses on providing excellent aftermarket services. We offer prompt field service, troubleshooting, metal detector startup, product testing, and training.

[www.adsdetection.com](http://www.adsdetection.com)

phone: 414-672-0553 • Milwaukee, WI • [sales@adsdetection.com](mailto:sales@adsdetection.com)



# PROTECTOR HD METAL DETECTOR

DETECTS FERROUS, NON-FERROUS, AND STAINLESS STEEL METALS

Prevent Damage to Processing Equipment including Extruders, Granulators and Shredders



## AccuLearn Technology

Quickly learns product characteristics and establishes the ideal detector sensitivity



## Custom Sizing

Get a Protector HD built to fit your existing processing line



## Patented Auto-Balance

Keeps the Protector's coils balanced indefinitely for consistent detection levels



## Engineered & Manufactured In-House

Promptly respond to customer's needs by designing and building a quality system delivered when promised



## Product Monitor

Provides real time signal values for your product and the metal contaminants that must be detected



## Nationwide Service

Local technicians to assist with start-up, training, emergency service calls and other aftermarket services

## PROTECTOR HD'S TECHNOLOGY

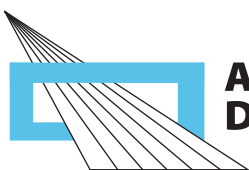
- Acculearn Technology:
  - Allows automatic adjustment of detector sensitivity settings without operator input
- Protector HD easily programmed for specific size tramp metal:
  - Optimum performance ensured and lowered risk of false rejects
- Adjustable RF Protection:
  - Ensures reliable performance in the presence of radiated noise and electrical power fluctuations

## STANDARD SPECIFICATIONS

- Power Supply: 110VAC 30VA max, single phase, NEMA 4 enclosure
- PLC Outputs: Voltage-free relay contacts rating 240V, 3A
- Operating Temps: -28° to 49°C and -20° to 120°F
- Reject Timer Options: Reject functions are carried out under microprocessor control and are all set from the touchscreen display

## OPTIONAL ACCESSORIES

- Control cabinet heater: for 40°F and below
- Remote control enclosure
- Belt splice sensor



**ADVANCED  
DETECTION  
SYSTEMS®**

phone: 414-672-0553  
fax: 414-672-1283  
sales@adsdetection.com

[www.adsdetection.com](http://www.adsdetection.com)

4740 West Electric Avenue Milwaukee, WI 53219 USA



\*A Sister Company of  
**Dings**  
magnetic group

CO. phone: 414-672-7830  
fax: 414-672-9421  
sales@dingsco.com