

Metal Detection

The best patented technology available today. Proven detection that finds the metal and prevents costly repairs and downtime. Manufactured in the USA, Advanced Detection Systems provides quick delivery time and technical support from experts that know the rigors and demands of the marketplace.

Experienced Engineering

Regardless of how small or how complicated, Advanced Detection Systems is capable of custom designing and manufacturing each system to your exact specification.

A truly unique approach to solving the strictest detection requirements.

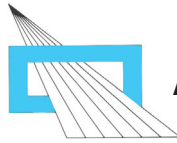
Aftermarket Support

Long after the system delivery, you can count on service unmatched in the industry. Backed by over 100 years experience, Advanced Detection Systems offers responsive field service, training classes, upgrades, service contracts and compliance audits by MSHA certified technicians.

Free Product Testing

Send us your product and we will report the sensitivity results and back them with a written guarantee.

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ADVANCED DETECTION SYSTEMS

SurroundScan Protector HD Tramp Metal Detector



Ideal for mining, aggregate, cement, recycling, plastic regrind applications

IMMEDIATE ROI

- ♦ Protects expensive crushers and grinders from tramp metal damage
- ♦ Outstanding performance in high speed applications demanding the best in ferrous, non-ferrous and stainless steel sensitivity.
- ♦ Detect only harmful tramp metal and eliminate nuisance trips caused by smaller tramp metal deemed not harmful to your process
- ♦ Patented vibration compensation technology provides the best sensitivity in virtually all conductive products.
- ♦ The SurroundScan Protector HD metal detector is constructed of all welded, heavy duty steel.

FOR NEARLY 25 YEARS, Advanced Detection Systems has been providing metal detectors for a wide range of industrial mining, aggregate, cement, recycling and plastic regrind applications where performance is everything and downtime is not an option.

THE SURROUNDSCAN TECHNOLOGY

The metal detector is manufactured with heavy duty painted steel that works in the toughest environment. The patented digital electronics continually monitor production and compensate for conditions such as conveyor vibrations, product variations and production equipment movements near the metal detector.

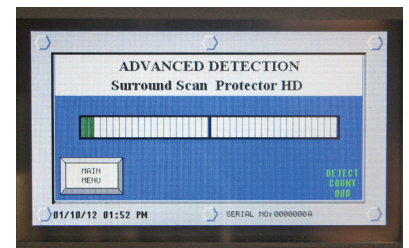
IMMEDIATE RETURN ON INVESTMENT

The SurroundScan Protector detects all metals missed by the magnet so it pays for itself with the first detection. Protect your expensive crushers and grinders from damaging tramp metal by investing in the digital SurroundScan Protector.

ADVANCED DETECTION SYSTEMS

The Protector is perfectly manufactured to inspect the most conductive products in adverse environmental conditions and offers enormous savings over expensive repairs and unreliable manual adjustments. The digital computer automatically determines the exact settings so it finds the metal before it causes costly damage and expensive downtime to your operation.

Designed with advanced technology, the Protector is equipped with product memory, **Acculearn** automatic product setup function and multi-level password protection for added security and peace of mind.



CONTACT US TODAY TO DISCUSS YOUR APPLICATION

PROTECTOR TECHNOLOGY

Automatic Set-up and Acculearn Technology

All products including conductive materials e.g. minerals, rocks, rubber, plastic, cement, require specific settings in order to achieve maximum performance. The Protector has the ability to be set for a specific size metal. In this way, optimum performance is ensured and the risk of false rejects and production downtime is eliminated.

Protector digital technology makes it easy to program for the exact minimum size tramp metal you need to detect.

Security Codes

Two levels of selectable security codes:

- Operator level to change product set-up mode
- Engineering level to access factory set-up parameters

CONSTRUCTION

Rugged, heavy duty, 3/16" and 1/4" mild steel plate construction. Mounts around the belt with no need to cut or destroy the belt.

Aperture Sizes

A full range of aperture sizes is available depending on application. Aperture size fits belt widths to 120".

ELECTRONICS FEATURES

The Protector electronics have the following features:

- Two channel operation for precise detection
- Digital processing and filters to eliminate excess noise
- Intuitive color touchscreen interface for ease of use
- Metal splice detection
- Optional remote display
- Automatic product compensation and balance control
- Data retention when power is disrupted or disconnected
- Capability to detect tramp metal through highly conductive material
- Patented vibration protection technology
- Shipped completely assembled and ready for installation

SPECIFICATIONS

Sensitivity

Advanced Detection Systems will test your product and provide a report with **guaranteed results**

Reject Options

System ready and detect lamps, optional exterior audio alarms, belt splice/clip detector sensor kit, metal locator kits (disc pick and spray marker)

Reject Timer Options

Reject timer functions are carried out under microprocessor control and are all set from the touchscreen display

Outputs

Voltage-free relay contacts rating 240V, 3A

Power Supply

Protector power supply 110VAC 30VA max, single phase. NEMA 4 enclosure.

Operating Environment

Temperature: -29°C to 49°C / -20°F to 120°F

Humidity

Up to 95% RH

Product Throughput Speeds

Protector technology accommodates a wide range of throughput rates with proven reliable performance

