



Digital Metal Detector HFT 0500



Description

The Model HFT-0500 is engineered for installation on conveyor belts carrying coal, minerals, aggregates, and other bulk materials. The HFT-0500 can be tuned to ignore conductive or magnetic ores such as magnetite and pyrite, even if they are carried by high tension, steel cord belts with rip detection loops, while still detecting small pieces of tramp metal. The HFT-0500 is available in nearly any belt width, and can be field adjusted to fit most standard conveyor configurations. An adjustable aperture allows the HFT-0500 to be modified for changing plant demands. The HFT-0500 is also available as a flat-pack under-belt style detector. Lightweight construction makes it easy to assemble and install without special tools, or the need to cut the belt, and the field replaceable, microprocessor based controls are easy to operate and maintain. A self-test circuit activates a fault light and dry contact to alert the operator if there ever is a problem with the controls, so you'll never have to wonder if your detector is operating properly.

Typical Applications

- Aggregate: Protects Impact Crushers
- Asphalt: Protects Impact Crushers
- Mining: Protects Impact Crushers
- Wood Chip: Protects Hogs and Impact Crushers
- Waste Wood: Protects Hogs and Impact Crushers

DETEC ELECTRONIC METAL DETECTORS ARE PROUDLY PRODUCED IN AUSTRALIA BY



Features & Benefits

- Single, Field Replaceable, Microprocessor based controls: Simple to service & maintain with interchangeable boards
- 32 digit LED display with bar graph for metal signal indication: Easy to read and operate
- Self Test circuit with Fault Alarm indication: Simplifies troubleshooting by automatically diagnosing problem
- Function, Metal and Fault indication LEDs: Ensures you always know the status of your metal detector
- EEPROM Stored system parameters: System settings can be swapped between boards, no need to re-program
- 3-level password protection: Prevents unauthorized access to key settings and functions
- Rugged Fiberglass Reinforced Plastic frame & Antennas: Able to withstand the harshest environments
- Two year warranty: Ensures long life of reliable service
- Swing away Transmitter Antenna with optional roughing guard: Reduces the likelihood of damage from large lumps and over-burdens
- Optional RS232 / RS485 serial link to PC with "Event" logbook & time stamp: Tracks metal detector performance and allows output to a PC for data analysis and archiving Detec Metal Detectors have a long history of service in industrial facilities including mining, quarrying, cement, brick works, recycling, power plants and many others in the protection of crushers and similar machinery fed by conveyor systems from damage caused by ferrous or non-ferrous metal. The Detec HFT-0500 offers reliable metal detector technology for applications where tramp metal is to be detected in conductive or magnetic ores. Detec, a trusted name for more than 40 years, offers a reliable and comprehensive range on metal detectors for industry.

Product Specifications*

Specifications

Values

Sensitivity

5% - 8% of Aperture height

Electronics

Field replaceable Microprocessor based

Enclosure

(I P65) standard (NEMA 4X, IP66, 7, 9 available)

Interconnecting cable

7.6m standard

Construction

Fiberglass Reinforced Plastic frame with reinforced fiberglass antennas.

Input voltage

110/220 VAC, 1 ph, 50/60Hz

Power required

No Output Load - 35 Watts
Max. Output Load - 990 Watts

Outputs

Direct Output (Metal Detect) - Dry Contact (SPDD Rated 250VAC, 3A)
Timed Output (Metal Detect) - Dry Contact (SPOT) Rated 250VAC, 3A
Fault Output - Dry Contact (SPOT) Rated 250VAC, 3A

Operating temperature

-10° to +50° (Extended temperature ranges available on request)

* Typical specifications, subject to project requirements

Product Drawing

Letter	Dimensions
H	S + R + 330mm
R	76mm to 305mm
S	Max. Burden H + 100mm
W	Belt Width + 250mm

All dimensions in millimetres

