3600 Metal Detectors





Part of the extremely successful METALARM Metal Detector range.

Features

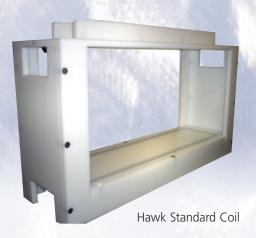
- Enhanced sensitivity
- Two models for different sensitivity requirements:
 Eagle for higher sensitivity requirements
 - Hawk for standard applications
- User-friendly, simple operation
- A pulse induction detection system offering balanced coil sensitivity
- Outperforms existing pulse induction detection systems
- Microprocessor based system
- IP66 Painted or Stainless Steel (304 as standard, 316 optional) control units
- Belt clip facility for variable belt speeds
- Self diagnostics and fault indication as standard
- Automatic mains supply recognition 100VAC - 240VAC (15VDC - 24VDC also available)
- More optional features available in modular control panel design (see over)

Benefits

- Excellent sensitivity even at high belt speeds
- Highly resilient to electrical noise interference
- Detector can operate with variable belt speeds
- Able to detect metal even on steel corded belts (Hawk Model)
- Able to operate with highly conductive products e.g. iron ore (Hawk model)
- Compact design for easy installation
- Supplied as a flat pack and simple to assemble
- No need to cut the conveyor belt to install







Optional Extras

- Atex units available
- Exterior alarms
- Sack dropper
- Belt clip detector
- Spymet Metal location indicator
- Coast counter/totaliser
- Shaft encoder for variable belt speed
- 24VDC (7W) output
- 'Local/Remote; on/off; bypass/online; remote sensitivity control
- High burden detector
- Healthy signal relay
- Thermostat
- Isolator
- Swing away top coil
- Mains filter

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Search coils

Eriez manufactures a range of search coils for use with the 3600 control unit.

All coils are manufactured in High Density Polyethylene and are fully screened to comply with with EU 'EMC' regulations.

Coils can be supplied to fit any belt width and accommodate any aperture height requirement.

Standard coil construction is good for 65°C. Special coils are available for applications up to 200°C. Please consult Eriez for further details.

Sensitivity

Hawk Coil Typically 5%+ of

aperture height

Eagle Coil Typically 2%+ of

aperture height

Eriez can advise further on specific sensitivity figures if required.

Control Unit Specifications

MA3600 Control Units employ Eriez' proven 'Pulse Induction' circuitry. Controls other than the front door illuminated switch and indicator are PCB mounted to give high reliability and enable easy access for servicing. Add-On modular relays and other optional features are 'plug & play' for easy adaptability.

Housing IP66 Steel Paint
Options Finish – RAL 7032

IP66 Stainless Steel

with anticondensation heater

(SS 304 – Standard SS 316 – Optional)

Dimensions 400 x 300

x150mm

Weight 10kg

Mounting 4 Corner – Wall

mounting

Electronics

Microprocessor based electronics.

Dual Channel as standard for metal and belt clip signals with coarse and fine sensitivity control.

Self diagnostics and fault indication.

Operating frequency control to suit different sensitivities.

Belt speed control.

Hardware and software filtering algorithm for enhanced noise immunity.

20 segment LED signal display.

Output Relays

- DETECT & FAULT are configurable
- DETECT & FAULT operate in Standard or Fail Safe mode
- Programmable DETECT output timed, direct or auto-reset
- Optional Healthy signal relay
- Rating, 5 Amps @ 30VDC or 250VAC

Interconnection Cables

Hawk Coil

- 5m supplied as standard
- ~ 10m and 20m are optional

Eagle Coil

- 5m supplied as standard
 Voltage Supply
- ~ 100VAC 240VAC 50 or 60 HZ
- ~ 15-24VDC

