

ERIEZ METALARM MA3600 METAL DETECTORS

Models:

Eagle

The logo for Orange and Hawk, featuring a stylized orange bird icon to the left of the company name.

New additions to
the extremely
successful
METALARM Metal
Detector range.



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 or steel (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

New 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
- New upgraded 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)

METALARM 3600 METAL DETECTORS



Hawk Standard Coil

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 EU 'EMC' regulations.

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.

Optional Extras

- Exterior alarms
- Sack dropper
- Belt clip detector
- Metal locator indicator
- Coast counter
- Shaft encoder for variable belt speed
- 24VDC (7W) output
- 'Local/Remote on/off and sensitivity control
- High burden detector
- Report generation
- Healthy signal relay
- Thermostat
- Isolator
- Atex 22 compatibility
- Swing away top coil
- Mains filter

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 Options	IP66 Steel Paint Finish – RAL 7032
	IP66 Stainless Steel with anti-condensation heater (SS 304 – Standard SS 316 – Optional)
Dimensions	400 x 300 x 150mm
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

- ~ 3m supplied as standard
- ~ 5m is optional

Voltage Supply

- ~ 100VAC - 240VAC 50 or 60 HZ
- ~ 15-24VDC



Eriez Magnetics Europe Limited

European Manufacturing, Design and Test Laboratory Headquarters
Bedwas House Industrial Estate, Bedwas, Caerphilly CF83 8YG, UK

Telephone: 029 2086 8501 Fax: 029 2085 1314
Int Tel: +44 29 2086 8501 Int Fax: +44 29 2085 1314
E-mail: eriez@eriezeurope.co.uk
www.eriez.com

