



METALARM 3600 METAL DETECTORS

EAGLE AND HAWK

FEATURES & BENEFITS

FEATURES

- Pulse Induction Technology offering balanced coil sensitivity
- Enhanced sensitivity
- User-friendly, simple operation
- Microprocessor based system
- IP66 painted or 304 stainless steel (316 – optional) control enclosures
- Improved belt clip detection for variable belt speeds
- Standard self diagnostics and fault indication
- Automatic power supply input: 100VAC – 240VAC (15VDC – 24VDC also available)
- Optional auxiliary equipment available

BENEFITS

- Superior sensitivities at high belt speeds
- Highly resilient to electrical noise interference
- Detector can operate with variable belt speeds
- Capable of detecting metal on steel corded belts (Hawk model only)
- Can ignore highly conductive products (e.g. iron ore)
- Easily assembled
- Compact design for easy installation
- Installed without cutting a customer's belt



ONLY FROM ERIEZ

Eriez' New Eagle and Hawk 3600 Metalarm Metal Detectors are designed to detect ferrous, nonferrous and stainless steel metals intermingled with wood, rubber, limestone,

rock and aggregate products, etc. These metal detectors are designed for indoor and outdoor installation on flat or troughed conveyors.

EAGLE AND HAWK

All of the coils for the Hawk and Eagle Metalarm Metal Detectors are manufactured from High Density Polyethylene and fully screened to comply with EU 'EMC' regulations. The coils are designed to accommodate the dimensions of the conveyor, upon which the metal detector will be installed.

The main difference between the Hawk and Eagle Models is the sensitivity. The Hawk Metalarm Metal Detector is capable of detecting a ferrous sphere equal to 5% of the coil spacing and the Eagle 2% of the coil spacing. Please contact Eriez for the sensitivities to non-ferrous and stainless steel metals.

AUXILIARY EQUIPMENT

- Exterior alarms (beacon, horn)
- Bag Drop Marking System
- Belt clip detector
- Metal locator indicator
- Coast counter
- Pulse encoder for variable belt speed
- 24VDC (7W) output
- Local/Remote, On/Off and sensitivity control
- High burden detector
- Report generation
- Signal relay
- Thermostat
- Isolator
- Atex Zone 22 compatible
- Swing away top coil
- Mains filter

CONTROL UNIT SPECIFICATIONS

The Model 3600 Control employs Eriez' proven 'Pulse Induction' circuitry. With the exception of the illuminated switch and indicator on the front door of the control, all of the other control components 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: Paint Steel Finish – RAL 7032 (NEMA 4X, IP66)
Stainless Steel (NEMA 4X – IP66) with anti-condensation heater (SS 304 – Standard, SS 316 – Optional)

Dimensions 15.75 in. (400mm) x 11.81 in. (300mm) x 5.91 in. (150mm)

Weight 22.05# (10kg)

Mounting 4 Corner – Wall Mounting

ELECTRONICS

- Microprocessor based electronics
- Dual channel (standard) for metal and belt clip signals with coarse and fine sensitivity adjustment
- Self diagnostics and fault indication
- Variable operating frequencies to suit different sensitivities
- Belt speed control
- Hardware and software filtering algorithm for enhanced noise immunity
- 20 segment LED signal display
- Voltage supply: 100 VAC -240VAC, 50 or 60 HZ
15 -24 VDC

OUTPUT RELAYS

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

INTERCONNECTION CABLES

Hawk Coil

- 16.4 feet (5 meters) - standard
- 32.8 feet (10 meters) and 65.6 feet (20 meters) - optional

Eagle Coil

- 9.84 feet (3 meters) - standard
- 16.4 feet (5 meters) - optional

Note: Some safety warning labels or guarding may have been removed before photographing this equipment.

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