



Underbelt Search Coil - Model TR

For use with conveyors fitted with idler sets. Burden heights up to 300mm when locating typical tramp metal, such as bucket teeth, large nuts, bolts, etc.

A specialised series of coils is available for where idler spacing is unusually close.



Underbelt Search Coil - Model TR-10

For applications where it is only required to detect a 75mm (3 inch) piece of metal and above. Normally such sensitivity control is only possible with bridge type coils.



TR-20 Adjustable Underbelt Search Coil

This unique, adjustable width search coil is specifically designed for the aggregate and coal industries to protect secondary and tertiary crushers from tramp metal.



SF Plate Coil - Model PL

For applications where there is a large amount of surrounding metal and/or a high level of electrical interference.

The unit replaces a section of the base conveyor over a length equal to the width of the conveyor.



Bridge Coil - Model BR

Transmitter/ Receiver Mode

Can be adjusted to ignore smaller pieces of metal. Suitable for detecting metal contamination in heavily mineralised materials.



Bridge Coil - Model BR-10

For applications with aperture heights up to 1000mm or more requiring high sensitivity.

BR Swing Top Coil

The new BR Swing Top Coil features a suspended top for applications where unusually high burdens can arise.

The swing top coil is manufactured in high strength, lightweight fibreglass, lined with a stainless steel angle to protect the search coil from direct impact. This search coil is recommended for use where burden heights are variable and on belt widths over 1.2 metres wide.



Vibratory Trough Coil - Model VC

Fitted to the base of vibratory conveyors or into the base of 'U' section conveyors.



Eriez Pulse Technology manufactures a wide range of search coils for use with the 3000 range of control units which can be fitted to

- virtually any type of conveyor
- in ducts, slides, etc

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

Sensitivity

Sensitivity is determined by the adjustment of the electronics and is constrained by the width of the search coil, the height of the product and the type and size of the metal being detected.

Eriez Pulse Technology can advise on sensitivity figures if required.

Control Unit Specifications

All the METALARM Control Units employ Eriez Pulse Technology's proven 'Pulse Induction' technology circuitry and are mounted on a single printed circuit board to give high reliability and enable easy access for servicing.

All controls other than the front door reset switch and 'on' lamp are pcb mounted for the same reason.

All optional functions are switchable for ease of setting up and plug in connectors are used for all connections and ease of installation and servicing.

Types of METALARM Control Unit

3000 CE	Standard
3500 CE	High Power
Quarrymaster CE	3000 housed in stainless steel cabinet with integral anti-condensation heater
Quarrymaster 3500	As above but fitted with the 3500 high power electronics
Quarrymaster 2 CE	This is as per the standard Quarrymaster but has the capability to be used with metal belt clips
Quarrymaster 2 3500	As per Quarrymaster 2 CE but fitted with the 3500 high power electronics

Mechanical

Housing	IP55 Steel paint finish - Grey (standard) IP65 Stainless Steel (Quarrymaster Models)
Dimensions	400 x 350 x 150mm
Weight	9kg
Mounting	4 Corner - Wall mounting



Electronics

110V or 240V, 50 or 60Hz single phase supply
24V d.c. (standard on MA3000 units, optional extra on MA3500 units)

Output relay

4 changeover relay contacts rated 5 Amp at 30V d.c. or 250V a.c.

'Detect' and 'Power On' lamps as well as a 10 segment LED signal display supplied as standard.

Interconnection Cables

The coil has a plug in connection and is linked to the control unit by coaxial cable.

Maximum cable length is 20 metres.

Cable type Coaxial type UR 76 or 70, RG 43

Standard length 3 metres for plate coils
5 metres for other coils

Optional Extras

- Exterior alarms
- Sack dropper
- Belt clip detector
- Metal Locator Indicator
- Single and dual delay timers
- Coast counter
- 4 to 20 mA output

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