

Saflec (Pty) Ltd.

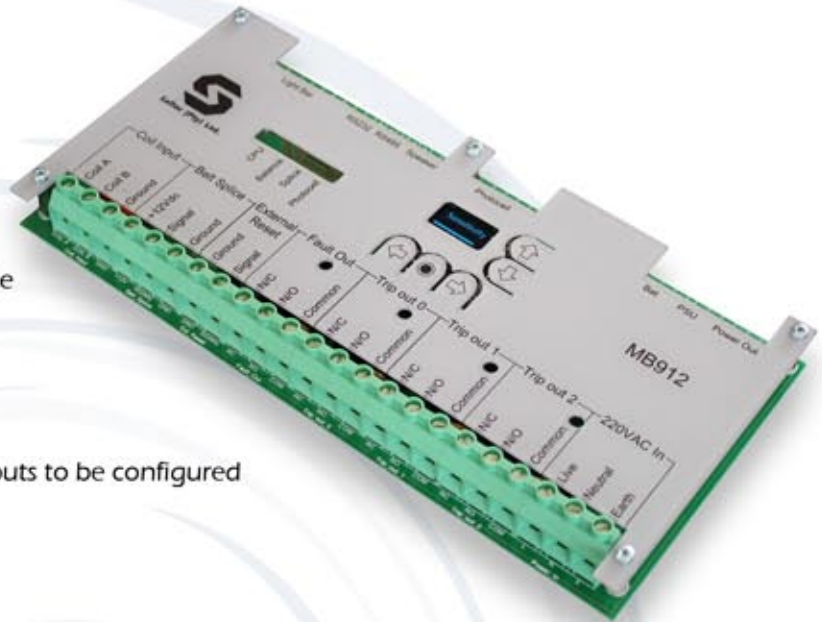
Metasearch4

Industrial Metal Detection Equipment

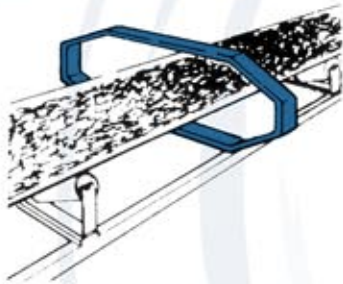
Metasearch 4 Controller

Features

- Single Board construction
- Auto-balance
- Facility to accept the signal from a Belt Splice pick-up
- 220 volt / 110 volt Supply Voltage
- Ability to operate in either an instantaneous Trigger Mode or require a Reset Signal
- Fault/Trigger Relay & LED indicator
- 3 X Trip Relays & LED indicators
- High / Low(1-100%) range of sensitivity
- Lockable metal enclosure rated IP65
- Microprocessor based with the ability for inputs and outputs to be configured to suit special requirements.
- Solid state user interface with LCD screen.
- Totalizing metal count facility.



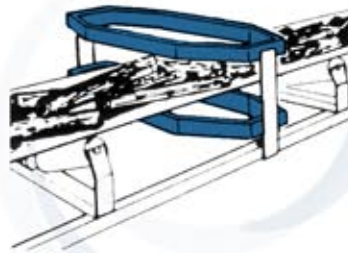
Typical Conveyor Installations



Belt passes through coil

Advantages: Most sensitive arrangement and least costly

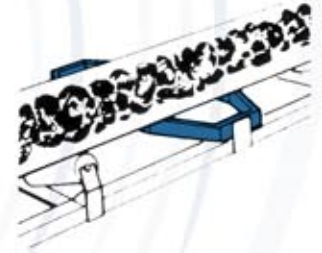
Disadvantages: Belt requires cutting and joining by vulcanizing
Coil vulnerable to large rocks



Belt passes between 2 coils

Advantages: Suitable for large burden depths
No cutting of belt
Easily replaced

Disadvantages: Coils need to be "phased" correctly
Coil vulnerable to large rocks



Coil positioned below the belt

Advantages: No cutting of the belt
Coil relatively protected from damage
Easily replaced

Disadvantages: Not suitable for large burden depths
Not the most sensitive where small items need detecting.

Most common form of installation for troughed conveyors



Advantages: Ease of installation (No cutting of belt)
Ease of replacement

Disadvantages: Not suitable for large burden depths
Not the most sensitive where small items need detecting

NOTE:
Saflec is capable of manufacturing specially designed coils to suit customer requirements such as the wood chipping industry.

Contact Information

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Website: www.saflec.com



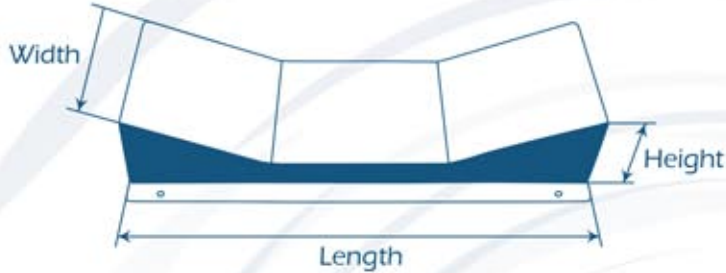
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Metasearch4

Industrial Metal Detection Equipment

Coil Dimensions

UNDERSEARCH COIL



Coil Dimensions (mm)

Coil Size	Length	Width	Height
M20-1	615	400	150
M20-2	905	400	175
M20-3	1320	400	195
M20-4	1650	600	220
M20-5	2320	600	315

STANDARD COIL



Coil Dimensions (mm)

Coil Size	Length	Width	Height
M20-1	730	300	50
M20-2	1230	450	55
M20-3	1530	660	65
M20-4	1850	775	65
M20-5	2300	880	75

Accessories

- Powder Marker
- Disc Dropper
- Light
- Siren
- Belt Splice Detector

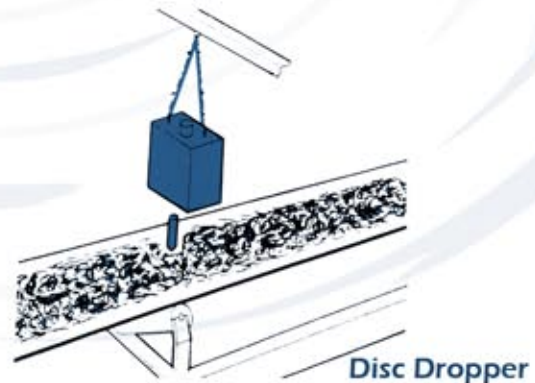
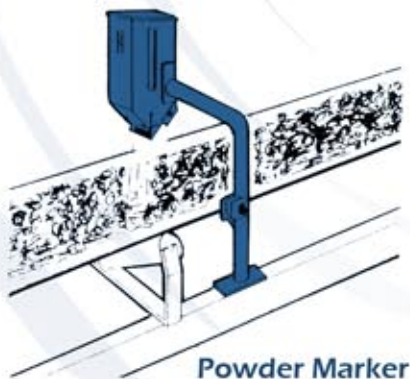
Marking system to indicate where metal is located on the conveyor belt

Marking system to indicate where metal is located on the conveyor belt

Light indication for visual identification of metal detected on belt

Audible indication for identification of metal detected on belt

Allows steel splice clips to pass through the coil with out stopping the conveyor



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Saflec Metasearch4

Industrial Metal Detection Information Form

In order for us to quote you correctly on your application please take the time to complete the form below and send it back to us, any additional information and photos of the conveyer may also be helpful. Please send this form to: info@saflec.com or fax to (+27) 11 477 5789 and a sales representative will get back to you shortly.

Company name: _____ Contact number: _____
Contact person: _____ Contact e-mail: _____
Date: _____

General info

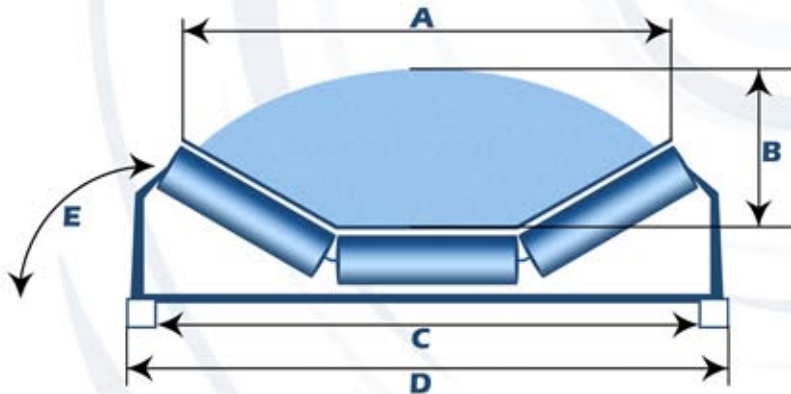
Power supply available? 220VAC 110VAC
Is the plant portable? Yes No
Search coil location? Inside Outside
Control Panel enclosure area? Inside Outside
Conveyor framework cover? Full Partial

Detection

What is the smallest size metal to be detected (mm)? _____
What type of material is carried on the belt? _____
Is the metal you require to detect Ferrous Non ferrous
Is the material on the belt Damp Wet Dry
If the material on the belt contains metal (e.g. manganese ore, iron ore etc.) what percentage of metal is in the product? _____

Conveyor info

Is the conveyor Troughed Flat
Steel core conveyor Yes No
Metal splice clips Yes No



A Belt width (when troughed): _____ mm
B Burden depth: _____ mm
C Inner stringer distance: _____ mm
D Outer stringer distance: _____ mm
E Trough angle: _____ °
Idler diameter: _____ mm
Distance between idlers: _____ mm
Belt Speed: _____ mps

Accessories

Marking system Belt splice detector Siren Alarm Light Alarm

Any additional information: _____

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