



SERIES 350 UNDER-THE-BELT PULSE INDUCTION METAL DETECTOR

FOR FLAT BELTS AND PROFILED BELTS WITH SHALLOW BURDEN

- **Detector coils built to suit belt or chute width -**
- **Mounts on existing conveyor framework between belt rollers -**
- **Troughs and chutes easily modified to accommodate mounting -**
- **Depending on bulk volume detects contaminate down to 2 mm -**

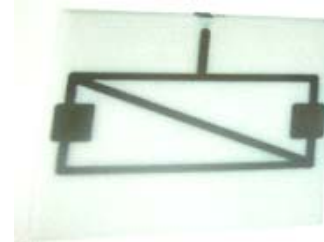
The Series 350 Metal Detector is ideal for plants processing wood, plastic, rubber and aggregate. The detector coil easily mounts under the belt in the conveyor metalwork surrounded by metal frame without any loss of sensitivity.

Exceptional sensitivity is provided from a single coil mounted below-the-line. A high-powered flux pulse is generated and its rate of collapse then monitored as the metal contaminate passes overhead to initiate an alarm.

This Detector provides an economical solution for detecting ferrous and non-ferrous metal contaminate, be it tramp metal on profile belts or small nuts in process lines as well as for mobile crushing applications. The search coil is either a flat polypropylene plate in a width to suit belt size or as a profiled coil box (supplied in flat pack form) for securing under the conveyor belt

The Series 350 Detector incorporates auto-zeroing and its sensitivity is not effected by the wetness of the product. This below-the-line Detector replaces aperture type detectors that are easily damaged by passing bulk product. The profiled coils are easily assembled on site to facilitate ease of installation in the existing belt conveyor.

Where metal contaminate detected an audio and electrical alarm is provided and where required, automatic rejection equipment or marking devices can be provided.



Flat Coil Plate (Underside)

Typical Applications:

- Nuts & bolts on vibratory belts
- Screws on shredding conveyors
- Digger teeth on Bulk conveyors

Typical Industrial Users:

- Plastics Industry
- Rubber and Textiles Plants
- Wood and Paper Mills
- Chemical and Pharmaceutical
- Tobacco Plants



Controller

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DETECTOR COIL CONFIGURATION

The detector coil configuration is constructed according to the size and shape of the bulk conveyor to accommodate client's specific requirements.

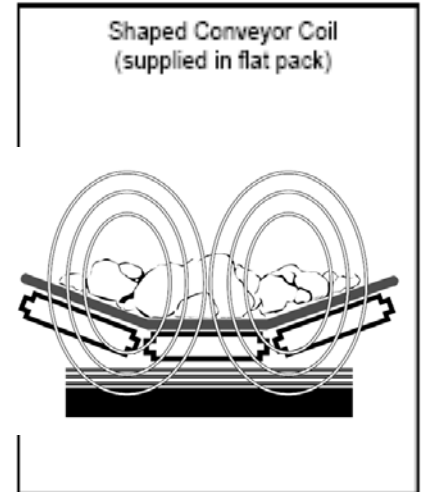
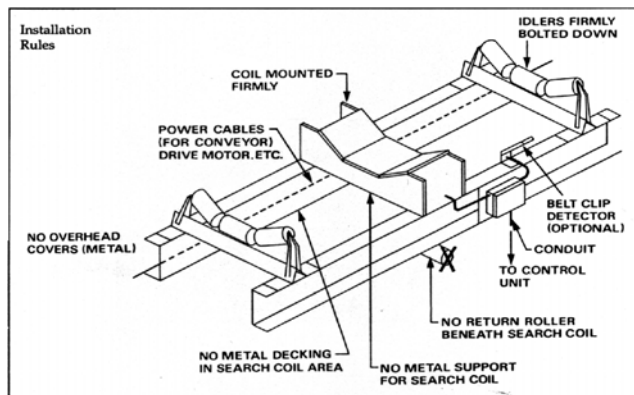
The coil is normally mounted into the conveyor metal framework between the belts supporting rollers. Some metal shielding may be required at times where roller close. Metal side guides and metal roofing may need replacing by non-metallic material. The coils are manufactured from thick polypropylene board and typically delivered in flat pack form for the client to assemble on site.

PERFORMANCE GUIDELINES

The size of contaminate detected is a factor of coil width and the height of the metal contaminate above the coil. Quotations are normally put forward which specify the expected sensitivity according to the type and amount of bulk material on the conveyor.

Typical Sensitivities over a 1 meter wide coil:

Detect 30mm Steel Cube at 50mm
Detect 5mm Steel Sphere at 10mm



SERIES 350 CONTROLLER SPECIFICATIONS

Housing:	Dual Painted Aluminum IP65 sealed enclosures for Power supply and Amplifier secured onto chassis plate within secondary Stainless enclosure 300H x 200W x 140D	Indicators:	Power and Function Indicator with signal monitoring meter
Electrical:	110 or 240 50Hz supply with 5 Amp 30VDC/250VAC c/o relay output	Coil cable:	Low-loss UR70 or OR76 coaxial. Length - 5 mtrs as standard.
Switches/ Adjusters:	On/Off and Reset button Zero and Gain adjustment		Coaxial cable length can be extended up to 30 meters

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We reserve the right to alter specifications without prior notice. Specifications without tolerances are typical values.

Your Local Sales Representative:



Bulletin MC-S350-10-01
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