



SERIES 300 INDUSTRIAL METAL DETECTOR

LOW COST - YET HIGHLY SENSITIVE

DIRECTLY MOUNTS ONTO EXISTING METAL WORK

The Series 300 Metal Detectors operate on the principle of generating a pulsed flux and monitoring its rate of collapse which will vary according to quantity of metal present.

This method of detection provides a highly sensitive technique of detecting small metal product or metal contaminate at low cost. In addition, the search coils may be mounted close to surrounding metalwork and rollers.

Coils are provided in flat-pack polyethylene or profile glass fiber construction. For areas where high ambience are expected, PTFE coils or stainless loop coils are available.



RDH 6
Controller



Glass Fibre
Search Coil

TYPICALLY DETECT:

- Single metal bar at any point along a wide roller table
- Small nuts and bolts on vibratory belts
- Digger teeth and tramp metal on crusher conveyors
- Warm metal product at furnace entry doors

INDUSTRIAL APPLICATIONS:

- Tracking steel product in *steel mills*
- Protection of *wood chippers*
- Crusher protection in *quarries*
- Protection of *plastic granulators*

MODULOC[®] CONTROLS - BUILT TO LAST - MODULOC[®] CONTROLS - BUILT TO LAST

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DETECTOR COIL CONFIGURATIONS

There are several detector coil configurations available which in turn are manufactured in various sizes to accommodate client's specific requirements.

Most coils may be mounted into the conveyor metal framework or directly onto metal floor pan the coil face adjacent and relatively close to surrounding metalwork or rollers.

For those areas where high ambients are expected (furnace entry tables) both PTFE search coils or all metal stainless loops are available. Both of these may be used with or without cooling.

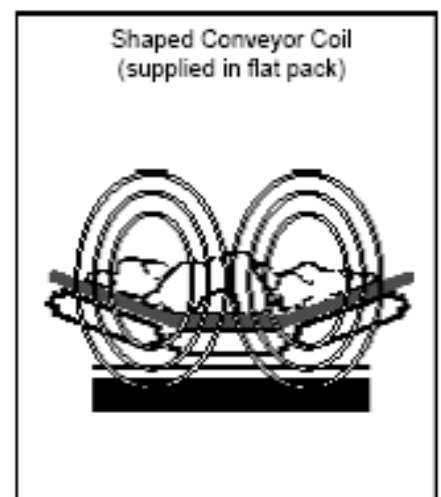
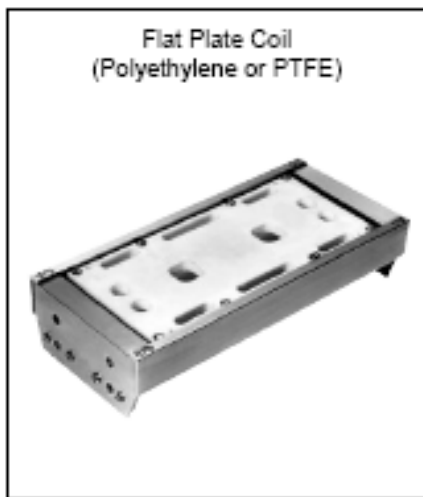
PERFORMANCE GUIDELINES

Sensitivity levels are a factor of coil width, the height of the metal above the coil and its size and profile. Quotations are normally put forward which specify expected sensitivity according to the client's installation requirements.

Typical Sensitivities over
500mm - 1 meter wide coil:

Detect 100mm Steel Beam at 150mm
Detect 30mm Steel Bar at 100mm
Detect 30mm Steel Cube at 50mm
Detect 5mm Steel Sphere at 10mm

Stainless hoop coils are intended for detection of steel plate at 100mm.



RDH6 CONTROLLER SPECIFICATIONS

Housing: Painted steel, IP65 sealed & lockable wall mounting enclosure 1400 x 300 x 150

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. Armored silicone cable option, Length - 3 meter standard

Switches: On/Off and Reset button

Coxial cable length can be extended up to 30 metres

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

Your Local Sales Representative:



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