

# TN77 Metal Detector



- **Reliable protection against machinery damage and loss of product**
- **Detection of tramp iron & manganese steel**
- **Easy installation into existing conveyors**
- **Simplicity of operation, fully adjustable sensitivity/detection level with indication if 1 or 2 pieces of tramp iron are detected**
- **Overlooks non-magnetic - copper alloy belt fasteners.**

The electronic TN77 metal detector enables a continuous inspection to be made of any materials which are non-metallic or non-conductive and which are generally conveyed by a belt conveyor.

The search coil is supplied from a range of standard sizes or made to customer requirements, with aperture height to suit the process.

The control unit is housed as standard in an IP65 wallfixing cabinet and can be sited locally or remotely from the search coil.

On detection of tramp iron a signal is generated in the search coil and transmitted to the control unit.

It is then processed and used to control other circuits - these include interlocking of the belt conveyor, operating audible or visual alarms, marking devices or suitable reject mechanisms.

The TN77 Metal Detector is used for the detection of tramp iron ferrous and manganese steel where their presence would prove damaging to processing equipment or product.

Typical materials to be inspected include limestone, granite, sand and gravel, clay, fluorspar, coal, chemicals, wood chips, mineral ores etc.

Detection of digger teeth, drill rods, crusher plates, bars, chains, nuts and bolts all are hazardous to crushers, mills, mixers for quarrying, sand and gravel, brickworks, mining, foundries and other processing plants.