...the leading edge in metal detection

MESUTRONIC®

METRON 05

A metal detector for
pneumatically conveyed fibers

Power Line

protects fiber processing plants from:
machine damage, loss of production, potential fires

The Challenge

Metal detectors have been used for many years in pneumatic lines to prevent damage to fiber processing machines. Conventional systems employ two main components: the detection system (metal sensor) and a sensor tube made from antistatic plastic or cellulose fiber material. These systems are prone to false rejects caused by electromagnetic interference signals which are created by frequency driven electric motors. This EMFI (electromagnetic field interference) travels through the ambient air as a beam that interferes with the sensing ability of the detector. Depending upon the intensity of the interference the detector cannot be used or has to be operated with extremely reduced sensitivity.

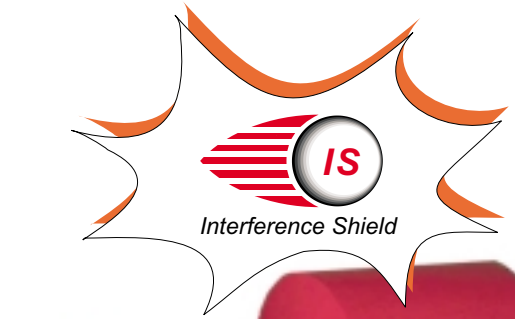
The Solution

The world's only metal detector that can be integrated into the fiber transport line without using a sensing tube. This design shields the metal detector from external interferences.

Quick Mount

The single component sensor unit can be mounted directly to the existing pipes with quick connect clamps or flanges.

Quick and efficient installation.



Interference Shield

Multilayer encapsulated detector coil with welded pipe connections.

Prevents electromagnetic interference!

Spark Detection

The optional spark detection system detects even the smallest sparks accurately and reliably.

Positive Speed Control

PSC calculates the contaminant speed for precise opening time and duration of the reject gate.

This can reduce the loss of good material by up to 90 %!

Additional features:

Signal strength display •
Auto Balance •
Temperature compensation •
Self monitoring •
Multifunction interference filter •
and more •

Available for tubing sizes of:

250, 300, 350 and 400 mm
(other sizes available upon request)

MESUTRONIC Gerätebau GmbH
Höllmannsried 31
D-94259 Kirchberg, Wald
Germany

Telefon +49 (0) 9927 - 9410-0
Telefax +49 (0) 9927 - 1732
E-mail sales@mesutronic.de
Internet www.mesutronic.de