Metal Detection

Metal Detection Systems
For Hazardous Locations

Enhanced brand protection

Profile GF metal detection systems deliver class-leading sensitivity to support maximum product quality. Open frame, stainless steel construction improve hygiene standards.

Increased Productivity

The Profile platform with full-colour touchscreen interface enables simple set-up and operation. Reduced Test Mode feature enables a reduction in the frequency of performance monitoring tests. Easy-clean system designs and integrated test facilities minimize downtime.

Enhanced Safety

Profile GF sytems can offer Category 3 compliant safety circuits and comprehensive dust-tight sealing. Clear HazLoc identification with red colour-coded gaskets provide easy visual identification.

NEC / CEC Hazardous Location compliant systems for Class II, Division 2 / Class II Zone 21 Applications

Locations that feature flammable substances and potentially explosive atmospheres represent a significant source of danger in modern manufacturing facilities. Equipment installed in such locations must adhere to stringent and specific compliance requirements.

For environments subject to risk from potentially flammable dusts, the Profile GF series of metal detection systems has been further expanded with the addition of cETLus-certified systems fulfilling the requirements of Class II Division 2 / Class II Zone 21 Hazardous locations. These systems are offered in addition to the existing ATEX-compliant metal detection systems and IECEx-compliant metal detector heads.

METTLER TOLEDO

METTLER TOLEDO Safeline's Gravity Fall metal detection systems inspect free falling fine powdered and granular products for metal contamination. The combination of maximum detection capability, efficient rejection systems and new technology deliver increased operational efficiency, maximized profitability, and easier compliance with both industry standards and regulations.

Features

Core System Upgrades
All systems are equipped with fully compliant components and sub-systems including:
- Metal Detector Heads & Enclosures
  - UHMW PE anti-static tube
  - Cable Glands & blanking plugs
  - Single enclosures accommodating system components & accessories
- HMI / Touchscreen
  - Protective Cover
- Reject System
  - Category 3 Safety Circuit
  - Solenoid Valves
  - Safety Interlock
  - Red Coloured Gaskets (to enable easy identification on HazLoc systems)
  - Dual Channel Monitored Dump Valve
- Electrical System:
  - Mains Disconnect
  - Push Button Reset
  - System Interlocks
  - Safety Relay
  - Emergency-Stop
  - Isolation Barriers

Standard System Cost Options*
- Reject Confirmation Sensor
- Reject Position Sensor
- Beacon (Single Colour)
- Beacon (Single Colour) & Sounder Combination
- Automatic Test System (When fitted as Original Equipment)
- Air Pressure Sensor

*Further system options available upon request

System Scope

Metal Detector Heads
- Profile GF Series
- Stainless Steel 304L & Painted Aluminium finishes
- Aperture ranges 50mm to 300mm
- Standard & Reduced Height versions

Enclosures
- Stainless Steel 304L
- Painted

Reject System Options
- Open Diverter
- Sealtite
- Y-Valve

Frames
- Stainless Steel 304L

Model No.
Serial No.
Order No.
Date.
Model Drawing No.
Wiring Diagram No.
Weight.
Dimensions.
1Ph, 120VAC, 50 - 60Hz
3 Amps (Max)
330W (Max)
50 - 90 psi or 3.5 - 6.2 bar
IP65
T (Max) 135°C
T amb -10°C to +40°C

Cl II, Zone 21, AEx tb IIIC T135°C Db
Cl II, Div 2, Groups F, G, T135°C
Certified to CSA STD C22.2 No 61010-1
Conforms to UL STD 61010-1
Certified to CSA STD C22.2 No 60079-0:2015
and CSA STD C22.2 No 60079-31:2015
Conforms to UL STD 60079-0:2013
and UL STD 60079-31:2015

METTLER TOLEDO

Mettler Toledo Safeline Ltd
Montford St, Salford,
M50 2XD, UK
WWW.mt.com/pi
Service 800-447-4439

ETL
Intertek
5016140

www.mt.com/metaldetection

For more information