

The Institute of Materials Handling



Client logo

Data sheet Metal detector

Project name
Project no.
Tag no.
Tag description

Document no.
Revision no.
P&ID no.
Status

	Originator	Date	Checked by	Date
Process				
Mechanical				
Electrical				
Approved by		Date	Professional registration no.	
Client (if applicable)				
Lead engineer				

General information

Corrosion protection	Reference drawing no.
Engineering specifications	Service
Installation	
Remarks	

Site

Altitude(AMSL)	m	Location	
Ambient temperature maximum	°C	Rainfall	mm/y
Ambient temperature minimum	°C	Wind velocity	km/h
Barometric pressure	kPa	Humidity	%
Underground atmospheric classification		Class	Division

Process

Feed material data

Material handled		Particle size maximum	mm
Material shape		Bulk density	kg/m ³
Material depth	mm	Flow rate minimum	tph
Temperature maximum	°C	Flow rate normal	tph
Angle of repose	degree	Flow rate maximum	tph
Angle of surcharge	degree		

Metal material data

Type of metal		Particle size maximum	mm
Maximum mass	g/kg		

Operating Conditions

Operating days per year	day	Operating hours per day	hr
Availability	%	Operating hours per year	hr



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Material characteristics			
Abrasive	yes/no	Erosive	yes/no
Combustible	yes/no	Flowability	free/poor/sticky
Corrosive	yes/no	Friable	yes/no
Dusty	yes/no	Hygroscopic	yes/no
Explosive	yes/no	Toxic	yes/no

Mechanical

General design information			
Conveyor tag number		Location	inline/cross belt
Refer to instrumentation datasheet for more information			yes/no

Information to be supplied by vendor

Detector data			
Type		Power consumption	kW
Maximum detection limit		Temperature maximum	°C
Maximum detection limit		Height above conveyor belt	mm
Coil current density	A/mm ²	Suspension gear safety ratio	
Coil temperature maximum	°C	Detector mass	kg

Shipping & installation

Information to be supplied by vendor			
Heaviest lift	kg	Overall height	mm
Heaviest maintenance lift	kg	Overall length	mm
Weight driver	kg	Overall width	mm
Maximum foundation loading	kg	Total shipping weight	kg
Net weight	kg	Total shipping volume	m ³
Operating weight	kg		

Underground dimensions

Underground applicable		Cage length	mm
Headroom available	mm	Cage width	mm