

# PULSEPARATOR METAL SEPARATOR



The Pulseseparator range of Electronic Metal Separators removes both ferrous and non-ferrous metal contamination from gravity fed bulk materials.

**PULSEPARATOR**  
INDUSTRIAL METAL SEPARATORS

## Models and Capacities

50mm and 100mm diameter aperture models are available, which will typically process 1000Kg/hour to 4000Kg/hour of granular material respectively.

## Associated Products

- Other metal separators with greater sensitivities and larger diameter throughputs
- Underbelt and overband metal detectors
- Magnetic separators including Magnetic Hoppagrids, Tube, Grate and Plate Magnets

## Features and Benefits

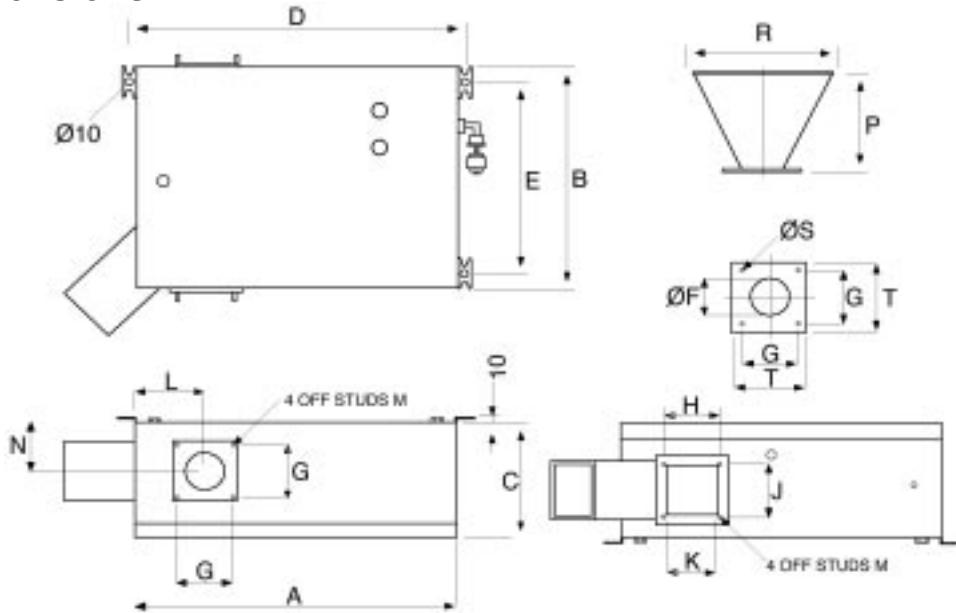
- Compact design
- High speed diverter - rejects minimum amount of product with metal
- High sensitivity - 1mm sphere (50mm model)
- No product effect - will handle both conductive and non-conductive material
- Simple to install
- Easy to set up

## Applications

Used for protection of machinery and for checking product quality in industries such as:

- Plastics
- Food
- Bulk Handling
- Recycling

## Dimensions in mm



	Pulseseparator 50	Pulseseparator 100		Pulseseparator 50	Pulseseparator 100		Pulseseparator 50	Pulseseparator 100
A	380	380	G	72	130	N	65	90
B	300	380	H	75	130	P	255	205
C	155	210	J	50	130	R	350	350
D	410	410	K	52	92	S	6	8
E	246	326	L	90	115	T	100	160
F	50	100	M	M5 x 14	M6 x 18			

## Specification

### Electrical

- Voltage supply 110V/220V
- Power 3 VA approx consumption
- Self monitoring Permanent monitoring function of sensor, air pressure, power supply and mechanics
- Outputs 'Detect' and 'Fault' relays
- Rejection time Adjustable from approx 0.1 to 1.0 sec
- Sensitivity Pulseseparator 50 1mm Ferrous sphere  
Pulseseparator 100 2mm Ferrous sphere

### Mechanical

- Protection IP55
- Temperature Max 70°C
- Material speed Maximum height of free fall approx 600mm
- Pneumatic supply 5 Bar (72.5 psi)  
Integral filter regulator, water bleeder and lifetime lubricated pneumatics
- Air consumption Approx 0.1 litre per rejection process
- Housing Steel, finished orange (RAL 2011) or Stainless Steel 316
- Parts in contact with material **Steel Unit**  
Polyethylene in the sensor area  
Anodised aluminium in the rejection area  
**Stainless Steel Unit**  
Polyethylene in the sensor area  
Stainless Steel 316 in the rejection area  
**Seal Material**  
In both cases Polyurethane
- Throughput Pulseseparator 50 1000 Kg/h  
Pulseseparator 100 4000 Kg/h  
Subject to flow characteristics of material.  
Given amounts refer to virgin materials.

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