

Free Fall Metal Detector

Detects and separates magnetic and non-magnetic metal from free-falling bulk products — powders, granules and pieces.



APERTURE

Up to Ø 350

mm (13") • custom sizes

REJECT

Pneumatic

Fast valve, no critical edges

MATERIAL

AISI 304

AISI 316 option

PROTECTION

IP67 / IP69K

For wet and dry areas

APPLICATIONS — FOR ALL FOOD INDUSTRIES



OVERVIEW

The free-fall detector inspects bulk products as they fall through the aperture. A fast pneumatic reject valve removes contamination with little loss of good product. Supplied as a complete system with frame and reject valve, ready to install under fillers, weighers and silos.



Double free-fall installation

🎯 Detection

- Magnetic and non-magnetic metal
- Mapping isolates the metal signal
- Low false-reject software

⬇️ Reject

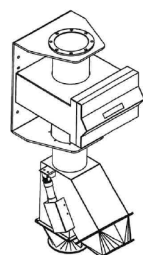
- Pneumatic reject valve
- No critical edges — no clogging
- FDA-approved plastic lining

☀️ Service

- Maintenance-free construction
- No mechanical balancing needed
- Optional colour touchscreen

STANDARD HEAD SIZES

Head size L × W × H	Search aperture
210 × 230 × 140 mm	Up to Ø 2.5" (100 mm)
300 × 300 × 160 mm	Up to Ø 4" (140 mm)
390 × 390 × 240 mm	Up to Ø 9" (230 mm)
400 × 400 × 250 mm	Up to Ø 13" (350 mm)



Built to fit your line. Head size, aperture and frame can be customised to your product and installation.

POWER SUPPLY

110 V · 220 V · 400 V · 480 V

OPTIONS

ATEX versions

AISI 316

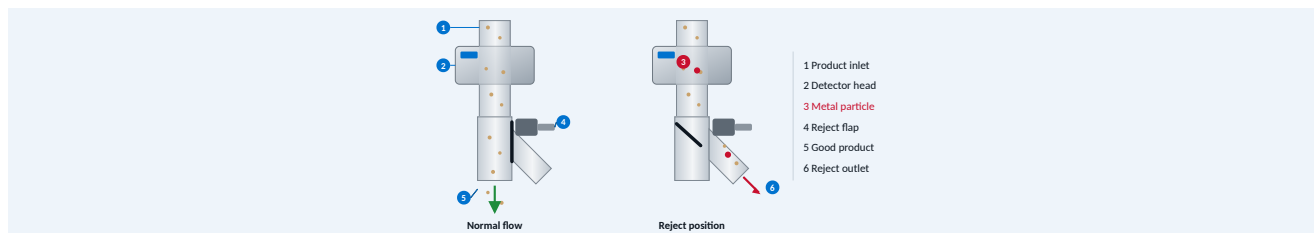
Colour touchscreen

Double installation

COMPLIANCE

CE marked · food-contact materials to EC 1935/2004

HOW THE REJECT SYSTEM WORKS



Detector head above the pneumatic reject flap: normal flow and reject position

WHY DETECTRONIC

Reliability and stability since 1986. Family-owned and made in Denmark, installed in food plants worldwide.

SERVICE & SUPPORT

Installation, calibration, service and spare parts from Detectronic and trained local partners.

DETECTRONIC

Detectronic ApS
Porsborgparken 8D
DK-9530 Støvring, Denmark

+45 96 66 30 60

sales@detectronic.com

www.detectronic.com

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