

# PHANTOM<sup>®</sup>

## Gravity Metal Detector



### The PHANTOM<sup>®</sup> Advantage

The unique Fortress Phantom Gravity Metal Detector utilizes the latest Digital Signal Processing technology to detect and reject ferrous and non-ferrous metals, including stainless steel. With the highest processing power, Phantom systems are renowned for their superior speed, accuracy and ease-of-use.

### Applications

Flour, Rice, Cereals, Powders/  
Grains, Corn, Sugar, Confectionery,  
Chemicals, Nuts

### Overview

The Phantom Gravity Metal Detector is ideally suited for inline inspection of dry, powder or granular products that can be gravity fed through a pipe from a processing machine.

Available in Painted Aluminum or Stainless Steel with a selection of several aperture sizes, the Gravity detector is built with Anti-Static UHMW Pipes, Air Control, and a Ceiling Support Frame. An automatic Reject Valve can be incorporated into the system to remove contaminated product from the flow. Additionally, a test ball retrieval drawer is offered, allowing for ease of manual testing.

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## ADVANCED PHANTOM FEATURES

Core DSP	Digital Signal Processing (DSP) technology provides unparalleled precision, speed, and detection results
UltraSense	Maintains high sensitivity levels to detect the smallest metal contaminants
AutoTest	Auto Test ensures consistent performance and saves costs
AutoCal	Automatic Calibration at the touch of a button
Intuitive User Interface	Provides dedicated shortcut keys
Flash RAM	Flash Memory technology prevents information loss
Modular Design	Fewer product parts results in greater reliability

## CONTROL OPTIONS

Integrated Panel	Control Panel is built into the detector
Remote Mounting	Display Panel terminal can be mounted remotely
Multiple Detector Control	One display panel can operate a number of detectors
Portable Display Terminal	Display terminal can be utilized as a portable device

## GRAVITY SYSTEM OPTIONS

Aperture Type	Round or rectangular – standard and custom
Diverter Valve Reject System	Flap-gate or Cowbell
Floor Stands	Support frame for easy installation, ceiling or floor mount
Reject Confirmation	Confirms proper valve operation upon rejection
Test Ball Retrieval Drawer	Allows for ease of manual testing
Alarm	Audible Alarm / Visual Alarm Beacon
Air Failsafe System	Diverts system to reject on loss of power or loss of air

## SPECIFICATIONS

Construction	Detector: Aluminum epoxy painted or Stainless Steel Valve: All Stainless Steel
Standard Pipe Diameters	3" / 6" / 8" (75 / 150 / 200 mm)* * custom sizes available
Rating	NEMA 4** / IP65 (HAZLOC – Class 2, Div 1 & 2 available) ** upgradeable to NEMA 4X / IP69K
Remote Control Range	Up to 4,000 ft / 1,200 m
Air	80 psi (4-5 bar)
Electrical	90-250 v single phase, 1 amp
Communications	RS485, Optional: Ethernet / Wireless, via CONTACT Software



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