



Fortress Metal Detectors



SYSTEM INSTALLATION GUIDE VENT TUBE METAL DETECTOR SYSTEM

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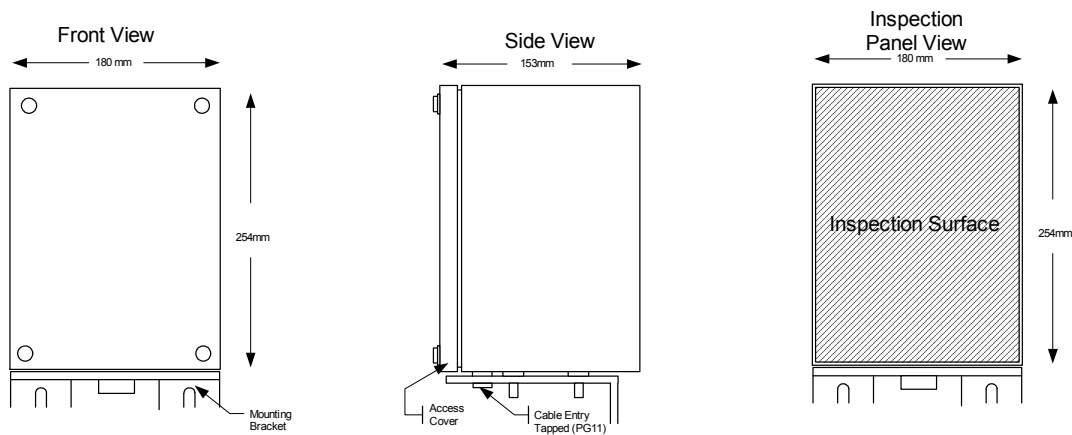
SYSTEM INSTALLATION GUIDE

Vent Tube Metal Detector System

The unit is built from a stainless steel (304) material, totally enclosed for washed down purposes. .

The system is composed of the metal detector search head assembly which includes the electronics components. The whole unit operates at an input voltage of 24VDC. Optional attachment for this version is a remote control box assembly that has the keypad, display, universal power supply (110Vac – 220 Vac) and optional output connection.

Vent Tube Detector Diagram



Optional : Remote Control Box

Assembly

You will receive the PHANTOM Vent Tube metal detector pre-mounted on the adjustable mounting bracket.

All assemblies (i.e. power supply and user interface) required to operate the system are fully wired and ready to be connected to the mains supply.

Packing List

When you receive the PHANTOM Vent Tube metal detector the following items are included:

- Stainless steel adjustable bracket
 - Metal detector test samples
 - PHANTOM Bottling Metal Detector Manual
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Reject Mechanism

The unit can be designed as an attachment or as a single independent detection system with its own reject mechanism. Reject mechanism can be custom designed to fit an existing system. As an attachment the metal detector unit reject outputs toggles a solid-state relay that can be used as an input in a PLC or directly connected to a reject device.

The reject signal is configured to failsafe. A failsafe reject device will always switch to reject if a problem occurs on the detector i.e. if a power failure occurs. The reject will remain in the reject mode until the detector reverts back to normal operation.

Installation & Application

The installation of your PHANTOM vent tube will only require general tools, there are no special tools required.

Typical application of the vent tube metal detector is generally positioned on the outfeed of a bottling processing machine, or a filler machine, where the outfeed from the machine passes into the sensing surface of the vent tube metal detector. Care must be taken to avoid contact between moving parts of the processing machine, or conveying belt, and the sensing surface of the metal detector.

The outfeed of the metal detector should pass into a collection facility of the existing system. The reject mechanism of the existing system is used to capture product that contains metal contamination (i.e. Vent tube nozzle). It is recommended that an alarm or a buzzer, and a marking or labelling device be used in correlation with the existing reject system for tracking of the fallen vent tube nozzle.

Where appropriate, the operating height and depth of the metal detector can be adjusted to ensure that the outfeed of the bottle-processing machine is satisfactorily positioned at the infeed of the metal detector.
