

## PowerPhasePLUS Metal Detection Systems



### Product Inspection for Processing & Packaging Lines

Designed for seamless integration into food production lines, the PowerPhasePLUS digital metal detectors protect products from stainless, ferrous and non-ferrous metal contamination.

All PowerPhase models incorporate sophisticated digital signal processing techniques that measure and cancel out the electronic profile of a product, thereby eliminating false rejects.

Safeline's PowerPhasePLUS metal detectors are ideally suited for use in harsh, washdown environments where sanitation is a primary concern.



### User Friendly Interface

The washdown rated control panel (IP69K; exceeds NEMA 4X) is easily understood and is designed to simplify operations.



### Interference Protection

Our unique Faraday Screen filters out certain signals and unwanted frequencies that can interfere with normal plant operations such as two way radio communication.

## PowerPhasePLUS Metal Detector System

- **Powerphase Protection for Ultimate Sensitivity**
- **Ultra-high Frequency**
- **Vibration Immunity**

**Do You Need Improved Sensitivity** - If you are currently using a metal detector, performing validation checks and finding only occasional rejects, you may feel secure that your detector is functioning properly and that your product is metal free. Yet there may still be a risk due to a phenomenon known as the Orientation Effect, that could allow dangerously large pieces of stainless steel shards, slivers and swarf to pass through your detector without notice.

PowerPhasePLUS metal detectors are built with a unique coil design and specialized digital signal processing electronics that ensure unrivaled sensitivity to stainless steel swarf contamination, eliminating this threat to your product's safety. A newly developed 'Faraday Screen' has been designed and incorporated into the system. This screen is highly effective at eliminating the electromagnetic interference that can cause false rejects.

**Ultimate Sensitivity** - The unique design of the detection coil and advanced signal processing electronics provide optimum sensitivity for all products.

**Vibration Resistant** - False rejects and interference from vibration are eliminated. Built-in resistance to vibration and physical blows eliminates this source of false rejects.

**Operate at Optimum Frequency for Every Product** - PowerPhasePLUS metal detectors operate at different frequencies, depending on the product being inspected. During setup, the detector switches to the optimum frequency. For users with a variety of products or both fresh and frozen product on the same production line, one PowerPhasePLUS unit can often replace two ordinary detectors.

The "Automated Product Groupings" (APG) setting is an enhanced feature of the PowerPhasePLUS. Traditionally, when running multiple-but-similar products on a production line, different settings would have to be established for each product. The new APG feature allows users to combine multiple products on a single setting. Safeline's new APG setting enables the PowerPhasePLUS to achieve increased sensitivity, reliability and higher productivity while reducing false rejects.

**Automatic Call for Performance Validation Routine** - Required by Vendor Certification Programs, Performance Validation confirms that the detector has been tested by qualified personnel at approved standards and agreed time intervals. The detector automatically calls for performance checks when required and issues a "Test Overdue" warning if the test is not promptly completed. Once the test is successfully completed the detector reverts to normal operation. Additionally, Safeline's optional Explorer software allows users to network all detectors to a central computer for comprehensive information management.

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**Safeline - making your products safer.**



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