

# ERIEZ



## PRECISIONGUARD X8 METAL DETECTORS

REPEATABILITY • ACCURACY • EFFICIENCY



**ERIEZ**  
GLOBAL LEADER IN SEPARATION TECHNOLOGIES

## About Eriez

Established in 1942, Eriez stands as a pioneering force in separation technologies, embodying a truly global presence.

With 12 wholly owned subsidiaries across the world, we proudly design, manufacture, and support our metal detection, magnetic separation, flotation, X-ray inspection, and material handling equipment on an international scale.

Our dedicated team of knowledgeable and experienced sales engineers collaborates closely with customers, understanding their unique challenges to deliver dependable, high-performance equipment, systems, and solutions.

Whether clients require our standard equipment or custom solutions tailored to their precise specifications, Eriez delivers.

Drawing from more than 80 years of experience across diverse industries, including mining and minerals processing, food processing and packaging, aggregates, metals recycling, and many other sectors, Eriez leverages its extensive experience to design and supply products that elevate productivity, efficiency, and product purity.

Eriez remains steadfast in its commitment to setting the global standard for excellence in key technologies, driving innovation and reliability across industries worldwide.

# PrecisionGuard X8 Metal Detectors

Advanced metal detection for sanitary applications delivering maximum sensitivity and ease-of-use.



## The New Standard in Accuracy & Efficiency

Reliable and easy-to-use, Eriez' X8 Metal Detectors identify small ferrous, nonferrous, and stainless steel metal contaminants. The X8 offers a high-resolution touchscreen interface, robust construction, straightforward setup and reporting, multiple communication ports, and a rugged construction designed for high-pressure washdown.

## Engineered for Excellence

Our PrecisionGuard X8 Metal Detector is ideal for packaged products, raw or bulk flow, food applications, and processing industries. Each model is designed to meet and exceed compliance standards and reduce downtime.

## Designed for Your Industry

- Food
- Packaging
- Beverage
- Pharmaceutical
- Chemicals
- Plastics
- Rubber
- Textiles



# Models for Your Exact Needs

The X8 Metal Detector has a line of model variations engineered to meet the needs of specific applications. No matter what space or process flow you're working with, Eriez has you covered.

- Tunnel Metal Detector
- Tunnel Metal Detector with Conveyor
- Liquid Line Metal Detector
- Vertical Drop Low Profile Systems
- Pharmaceutical/Tablet Press Metal Detector
- Weblane Metal Detector
- Vertical, Form, Fill & Seal (VFFS)

# Customizable Solutions

Don't see the ideal fit for your specifications? Contact us. We can design exactly what you need and provide tailored equipment.



## Design & Function

- Full-color capacitive touchscreen
- Large, angled, easy-to-read user interface
- Highly dependable detection
- Designed for IP69 washdown conditions
- Multiple communication ports – USB and Ethernet
- Durable 304 stainless steel construction (316 available)

## State of the Art Software

- Automatic setup and adaptive product learning
- Easily editable product settings
- Four password-protected levels of access
- Download reject and event logs over LAN
- Digital storage of verifications, rejects, and events
- Traceability to support HACCP, GFSI, SQF requirements
- Quality Retail Compliance software included

## Network & Communication

The X8 Metal Detector device is designed with multi-function communications ports. Collected detection readings create an easy-to-access audit trail for thorough transparency and documentation. In addition to helping with compliance and safety regulations, these features improve workplace efficiency and eliminate the time spent on manual log extraction.

## Tunnel Metal Detector

The X8 Tunnel Metal Detectors are manufactured to suit any in-line processing application where space is limited. It combines benchmark-setting sensitivities with feature-packed controls — all at the price of a mid-range detector.



## Tunnel Metal Detector with Conveyor

Pair our X8 technology with a durable conveyor for continuous processing. Available in a wide range of sizes and equipment options. Some of the main features include:

- Food-grade belts
- Tool-less disassembly available on standard design
- Single point of power in 110/220 VAC



## Vertical Free Fall Systems

The X8 Vertical Free Fall Detectors are engineered for use in gravity applications. Their low-profile design utilises an Eriez detector with remotely housed electronics, a support plate and diverter valve. Features include:

- Compact design ideal for space-restricted areas
- Easy installation below hoppers or silos
- Direct attachment to metal pipes or hoppers
- Test ball retrieval system for in-production testing



## Pharmaceutical

The Eriez Pharmaceutical Metal Detector is designed to inspect tablets and capsules that are gravity fed from the tablet press. This highly-sensitive compact metal detector system meets stringent standards and accommodates space-restricted areas within tablet and encapsulation rooms. Eriez' pharmaceutical unit has been engineered with an adjustable sensing head and has one of the largest and easiest to clean product chutes in the industry to optimise efficiency.



- Designed specifically for the pharmaceutical and confection industries
- Includes free IQ, OQ and PQ Validation Protocols
- Tool-less disassembly for all product contact components for easy cleaning
- 38 mm (1.5") H x 114 mm (4.5") W or 23 mm (0.9") H x 102 mm (4") W aperture

## Liquid Line

Eriez' X8 Liquid Line Metal Detector systems are designed for liquids, pastes, slurries or other viscous products where high-sensitivity metal detection is required. When metal is detected in the product flow, a reject signal is channeled to one of the available output relays. The output relay can be used to activate a 3-way ball valve, control a visual or audio alarm, or send a signal to a PLC.



- Vertical or horizontal, floor or ceiling mounting capabilities
- Suited for Clean-In-Place (CIP) or Clean-Out-of-Place (COP) methods
- Remote HMI control
- Availability in pipe sizes 38 mm (1.5") – 102 mm (4") diameter.



## Webline

Eriez' Webline Metal Detectors are engineered for use on web or sheet applications via remote control. Heavy-duty construction meets a narrow profile, as the micro metal-free area of the unit permits it to be installed in areas with limited space and with little isolation of any surrounding equipment. Designed for use in:

- Plastics
- Wood
- Paper
- Textiles
- Rubber
- Particle Board



## Vertical, Form, Fill & Seal (VFFS)

The Eriez Vertical Form, Fill & Seal (VFFS) units are designed to mount into space-restricted Vertical Form and Fill machines. With its innovative design, the VFFS Metal Detector connects to existing stainless steel hoppers and forming tubes with simple connectors.

- Field switchable narrow zone/wide zone detection
- Instantaneous electronic recovery from phase adjustments
- Hopper attachment via connectors
- No need for a metal-free area above and below sensing head
- Five sizes of apertures: 76 mm (3"), 102 mm (4"), 152 mm (6"), 203 mm (8"), 254 mm (10")

## Technology

- Balanced Coil Design

## Outputs

There are nine total outputs, each with one set of contacts. There are four programmable “Form C” (NO-C-NC) relay outputs rated at 5A up to 250 VAC, 30 VDC each.

- Reject (K1)
- Relay 1 (K3)
- Relay 2 (K2)
- Relay 3 (K4)

All four relays are fail-safe wired; if power is lost, the relays will switch to the activated position.

There are 5 programmable “Form A” (SPST-NO) solid state relay outputs rated at 500mA up to 40VDC. These five outputs can be wired as NPN or PNP. The output can be set to NO or NC under normal running conditions.

## Inputs

Eight configurable inputs set to “Active High or Low”

- Input voltage: High = 10 – 30VDC, Low = 0 – 0.9VDC
- Input impedance = 2.8 $\Omega$ , Current requirement = 3 – 10mA
- Tachometer
- Conveyor running
- Reject confirmation
- Air pressure failure
- Product counter

## Languages

- English
- Spanish

## Washdown

- IP69
- NEMA 4X/PW 12
- 80° C (176° F) water at 100 bar (1450 psi)

## Ambient Temperature Range

- Integral Control -10°C (14°F) to 49°C (120°F)
- Remote Control -10°C (14°F) to 54°C (130°F)

## Power Requirement

- AC IN 100-240 10A Max 50/60Hz 1 Phase

## Control

- 257 mm (10.1") capacitive touch screen
- Informational Light Dome: Provides intuitive, at-a-glance status updates for operators and maintenance staff
- Sloped control with improved sanitary design
- High capacity memory for product settings and reject and event logs
- Rugged, Hygienic Construction - ideal for high-washdown environments
- Convenient USB, Ethernet Connection Ports, and Wireless Wi-Fi Bridge

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