



- Integrated Digital Search Head and DDS vector display deliver perfect product setups
- Stable to extreme vibration and product signal
- Best in class sensitivity to magnetic and non magnetic metals
- External USB port
- Optional wired or wireless ethernet datalink port and SCADA capability
- Menu with unlimited language options
- User friendly operation with auto-learn feature
- Comprehensive choice of reject options including drop flap and retract band type
- Failsafe option comprises reject confirmation, air failure alarm and bin full alarm
- Available in single or multi-frequency format ranging from 30-875kHz
- INSIGHT HD detector heads are sealed to IP69k/PW12\*



Analyse  
Detect  
Report



DDS (Direct Digital Signal)

The INSIGHT HD range of metal detectors for the food and packaging industries sets new standards for good manufacturing practice - specifically - traceability, efficiency, product quality, and compliance with existing as well as forthcoming regulatory requirements.

To achieve these goals metal detection and signal processing take place in the compact INTEGRATED DIGITAL SEARCH HEAD. Sophisticated OPTIX detector management software uses Lock's unique DDS (Direct Digital Signal) vector diagram to generate the detailed product profile needed to achieve perfect product set-ups. This guarantees detection and rejection of metal fragments in both conductive and non-conductive product applications while achieving stable operation and market leading sensitivities to all metals.

Each INSIGHT HD is delivered with an external USB port to allow downloading of data for secure storage or distribution in pdf and other formats. Wired or wireless ethernet and SCADA capability are optional.

Available in single or multi-frequency format ranging from 30 to 875kHz, the INSIGHT HDs compact dimensions make it suitable for integration with all well known checkweighers, and mounting onto new or existing conveyors.

## Automatic Setup

Conductive products such as meat, dough and fish may require careful setup if optimum sensitivity is to be achieved in conjunction with high productivity. The INSIGHT HD will automatically setup and store 200 different presets, calibrating for bulk effect and packaging material as each product passes through the system.

## Metallised Film

The INSIGHT HD automatically senses metallised film packaging and creates product setups that filter out its impact, achieving the maximum possible sensitivity to metal contaminants without sacrificing productivity.

## Integrated Digital Search head

- Metal detection, control and signal processing all take place within the ultra compact detector head.
- Automatic balance control for adjustment-free operation.
- User-replaceable electronic module for minimum downtime.
- Full range of aperture sizes available to suit application.

## Construction

- IP69K/PW12
- IP54/NEMA 12\*

## OPTIX Software

- OPTIX is a powerful diagnostic and problem solving tool for engineers and operators. Functions available using OPTIX are:

- Reports
- Direct Digital Signal (DDS) Viewer
- Memory Backup
- Language and Software Update
- Comms Setup
- Diagnostics

## General

- User friendly membrane or optional touchscreen HMI both feature unlimited language options and DDS (Direct Digital Signal) vector diagram display a view into the metal detector.
- Automatic TEST SAMPLE prompt.
- Permanent memory stores up to 8000 data events, which are retained when power is interrupted or disconnected.
- Data reports can be downloaded to a standard memory stick for secure storage or distribution in pdf and other formats

\*Available in 30, 100 and 300kHz single frequency heads only

## Security Codes

Four password protected security levels are provided:

- L1: Operator level to change product types
- L2: Supervisor level to change setup mode
- L3: Engineering level to access factory setup parameters
- L4: Administration level to enable multi-user ID/password system

## Communications

- External USB port to allow downloading of data for secure storage or distribution in pdf or other formats
- Optional wired or wireless ethernet datalink port to enable networking of product data and Quality Assurance information.
- Optional SCADA capability

## Outputs

Voltage-free relay contacts. Rating 240V, 3A resistive.

## Power Supply

Universal power supply 88-264V AC 47-63Hz

## Operating Environment

- Temperature: -10° to 60°C/14° to 140°F
- Humidity: up to 95% RH

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