TECHNICAL DATA

INSIGHT VF

IN PURSUIT OF PURITY...

DDS (Direct Digital Signal)

- **Integrated Digital Search Head and DDS vector display deliver perfect product setups**
- **Best in class sensitivity to magnetic and non magnetic metals**
- **Minimum installation space required due to compact design**
- **Throughput up to 50 tonnes per hour**
- **Supplied complete with frame, throughput tube and choice of quick release reject devices**
- **External USB port**
- **Available with wired or wireless ethernet datalink port and SCADA capability**
- **INSIGHT VF detector heads are sealed to IP66 (NEMA 4X)**

Analyse
Detect
Report

High throughput rates coupled with best in class sensitivity makes the INSIGHT VF system ideal for the detection and rejection of metallic contamination during the handling of free falling materials either at the beginning of a production line or at any suitable point in manufacturing. Ideal for processing cereals, cocoa, coffee, sugars, spices, dried fruit and vegetables, flour, milk powder products, rice, chemical granules and plastic pellets.

Metal detection and signal processing take place in the compact INTEGRATED DIGITAL SEARCH HEAD. Sophisticated OPTIX detector management software uses Locks unique DDS (Direct Digital Signal) vector diagram to generate the detailed product profile needed to achieve perfect product setups delivering industry leading sensitivities for both magnetic and non magnetic metals, accurately detecting the tiniest particles of challenging contaminants such as stainless steel wire.

The INSIGHT VF sets new standards for good manufacturing practice - specifically - traceability, efficiency, product quality, and compliance with existing as well as forthcoming regulatory requirements. Each unit is supplied with an external USB port to download data for secure storage and distribution in pdf or other formats. Wired or wireless ethernet and SCADA capability are available.

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Automatic Setup

The INSIGHT VF will automatically setup and store 200 different presets, calibrating for product signal as each material passes through the system. This ensures maximum productivity with industry leading sensitivity to the tiniest conductive and non conductive metal contaminants.

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
- Available to suit product feed tube sizes with diameters between 50mm/2” and 300mm/12” in 50mm/2” increments
- Sealed to IP66/NEMA 4X

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
- Diagnostics

General

- User friendly membrane with multi language option. DDS (Direct Digital Signal) vector diagram, represents what’s happening during the metal detection process and aids perfect product set up.
- 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
- Pneumatically operated sealed flap or cowbell reject mechanisms can be specified according to application
- TEST BALL KIT supplied as standard to ensure accurate and dependable in process testing. Kit comprises test sample, grid and catch tray

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

Every INSIGHT VF metal detector is available with wired or wireless ethernet connectivity and SCADA capability. The external USB port allows all events and product presets to be downloaded onto a standard memory stick or PC to enable secure storage and distribution of quality records in PDF or other formats.

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

Lock Inspection Systems Ltd
Lock House, Neville Street, Oldham, OL9 6LF, UK
Tel: +44 (0) 161 624 0333 Fax: +44 (0) 161 624 5181
Email: sales@lockinspection.co.uk

Lock Inspection Systèmes S.A.R.L.
Parc Silic, Bâtiment H, 12 avenue de Québec, Silic 620,
Villebon, 91945 Courtaboeuf Cx, France
Tel: +33 (0) 169591620 Fax: +33 (0) 1 69 59 16 21
Email: sales@lockinspection.fr

Lock Inspection Systems Inc
207 Authority Drive, Fitchburg, MA 01420-6094, USA
Tel: +1 (0) 978 343 3716 / 800 227 5539
Fax: +1 (0) 978 343 6278
Email: sales@lockinspection.com

Lock Inspection Systems BV
Daalderweg 17, 4879 AX Etten-Leur, Nederland
Tel: +31 (0) 76 50 30 212 Fax: +31 (0) 76 50 89 800
Email: sales@lockbv.nl

Lock Inspection Systems (China Office)
Rm 1105, No 5 Building SIPPC,
1111 Zhennan Road, Shanghai 200331, P.R.China
Tel: +86 (0) 21 6608 1980 Fax: +86 (0) 21 6608 1982
Email: sales@lockuk.cn

www.lockinspection.com

INS-VF-TDS-ENG-04/13 ISS 5

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