IQ3X - Rectangular Metal Detector Search Head

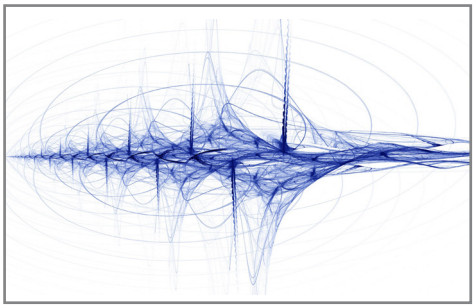
Designed for Packaging Industry

Metal Detection

The IQ3X metal detector search head with its Variable-Frequency capability is designed to inspect products for metal contaminants in the food and packaging Industries.

Product Highlights

- User Interface: Dual-Line screen and key pad display with simplified operation
- Auto-Learn feature saves time by easing product set-up
- Variable-Frequency technology (31 to 937 kHz) provides best detection performance for even difficult to handle metallized-film packaging
- Multiple product memories for rapid product change over and data storage
- Password protected group accounts provides secure access to functions critical to each level (Operator, Supervisor, Quality and Engineer)
- Full range of aperture widths and heights to suit products being scanned



Variable Frequency Provides the Best Detection Levels

The IQ3X is built using Loma's revolutionary Variable Frequency technology that allows detection levels to be optimised around a wide range of differing product conditions, including whether they are wet or dry.

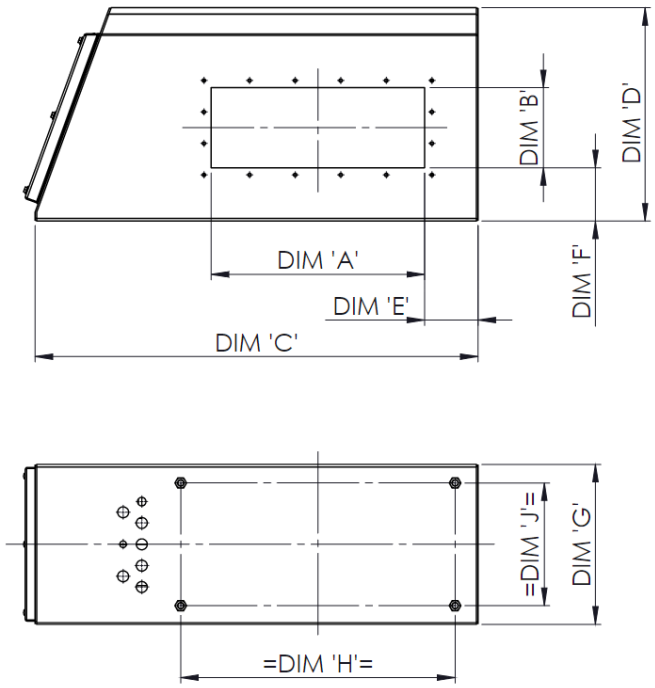
Product Learn Provides Simple and Fast Set-up

Type in your product details, initiate a learn, and pass a pack several times and the IQ3X is automatically set-up and ready to inspect for contaminants. Fast, simple and accurate.

Robust "Beyond" IP69K Rating

An improved lip, screen, and new blue sealing arrangement, combined with ultra-harsh mechanics proven from the IQ3+ range, make this one of the toughest and factory-friendly metal detectors on the market

Technical Specification



Dimension A = Aperture Width
Dimension B = Aperture Height

Material of Construction	304 Brushed stainless steel
True Variable Frequency	31 to 937 kHz
Supply Voltages	100 to 240 V, single phase 50/60 Hz, neutral & Earth
Power Consumption	20 VA
Temperature Range	-10 to + 40 °C (14 to 104 °F)
Humidity	0 to 95 % Relative Humidity (Non-condensing)
IP Rating	IP69K
PVS Enabled	Yes
Communications Capability	• Serial Communications (RS422) • Optional Lantronix Serial to Ethernet converter Note: Both above are compatible with Loma ENet only. There is no USB or TRACS capability
Fail-safe Capability	Product Registration, Reject Confirmation and Bin Full Sensors Only

Head Dimensions

Preferred Aperture Width 'A'	**250, 350, 450, 550, 650, 750, 850, 950, 1050, 1150, 1250**									
Preferred Aperture Height 'B'	**100**	**150**	**200**	**250**	**300**	**350**	**400**	**450**	**500**	**550**
C	A + 430				A + 530		A + 670		A + 810	
D	392,5	400	450	500	650	700	850	900	1050	1100
E	100				150		200		250	
F	130	100			150		200		250	
G	300		400		500		600		700	
H	A + 114									
J	230		330		430		530		630	

All dimensions in mm. The table shows the most common aperture widths and heights only, and please note that not all aperture heights are available with the aperture widths stated. Other sizes, including custom sizes are available depending on your application. Please consult your local representative for any further information.

Other Features

- Rugged construction using brushed 304 stainless steel
- Unique clam-shell designed case and coil geometry that delivers unsurpassed levels of immunity
- For horizontal or vertical mounting. Vertical mounting will require optional remote control box (specify cable length between 1 and 15 metres)
- Compatible with 4-colour lamp-stack assembly