

# **THS/FFV21** SERIES Quality Control at its finest



# FREE-FALL INTEGRATED SYSTEM WITH METAL DETECTOR AND EJECTION VALVE

## **FEATURES**

- State-of-the Art Quality Control of powder and granular products
- Detection and ejection of magnetic, non-magnetic and stainless steel metal contaminants
- Fast detection and rejection speed
- Fail-Safe Operations
- Structure and components in AISI 316L Stainless Steel and food-compatible plastics (EU, FDA compliant)
- Very compact size
- ATEX version available **(Ex**





# www.maydokimloaiceia.vn



Hotline: 0907 686 889 ¬ Email: hoanglongtechnology@gmail.com CEIA reserves the right to make changes, at any moment and without notice, to the models, their accessories and options, to the prices and conditions of sale **CEIA THS/FFV21 Integrated System** is especially designed for the inspection of granular and powder products and the elimination of any contaminating metals, whether magnetic, non-magnetic or stainless-steel.



### **INTEGRATED SYSTEM** FOR GRAVITY FEED

The carefully selected materials used in construction of the THS/FFV21 Integrated System do not interact with food products, and thus do not modify or alter their composition. The design of the system incorporates a fast reject valve drive response time to detect and reject the contaminant without slowing down the product flow.

The construction guarantees quick, easy cleaning of the components that are in contact with the product. The technological choices made by CEIA allow the parts in contact with the product to be disassembled and maintained in a short time. **The system operates in fail-safe mode**, thus avoiding the risk of contaminants passing through even when the system is deactivated or when the electrical power supply is interrupted.

### MULTI-SPECTRUM TECHNOLOGY

Exclusively developed by CEIA, this is a unique metal detection technology that both optimizes sensitivity to all metal contaminants and minimizes product effect in a very wide range of possible products.

By recognizing the different frequency response of conductive products and metals, this innovative technology cancels product effect and maintains high performance levels for all types of metal contaminants, both magnetic and non-magnetic.

The autolearn function used by CEIA Multi-Spectrum metal detectors equates to the repetition of hundreds of conventional transits. It explores the whole spectrum of available frequencies in order to determine the best operating conditions resulting in unique detection performance.

### THS/FFV21ES and THS/FFV21S models G Ó ¬Φ ø ΠØΑ 日日 BΒ 0 0 Ġ A Model A В D d G н Μ Product to be inspected С Standard 856 ÷ 906 826 100 Uncontaminated THS/FFV21xS-75 107x151 275 505 660 73x117 534 34 2 On request, the two With Reduction Kit 766 ÷ 851 736 10 product output exits can be Standard 849 ÷ 899 819 100 Contaminated THS/FFV21xS-100 505 660 73x117 107x151 534 275 27 3 provided rotated by 180° With Reduction Kit 759 ÷ 844 729 10 product Metal Detector Probe Standard $990 \div 1030$ 960 100 4 THS/FFV21xS-150 560 760 155x204 195x244 580 380 35 Power Supply box with Control Panel With Reduction Kit 900 ÷ 975 870 10 5 1030 ÷ 1070 tandard 1000 100 6 Ejection valve activation system THS/FFV21xS-200 560 760 155x204 195x244 620 380 36 With Reduction K 940 ÷ 1015 910 10 7 Eiection valve

Dimensions in mm

2

# THS/FFV21 ATEX series



EtherNet√IP



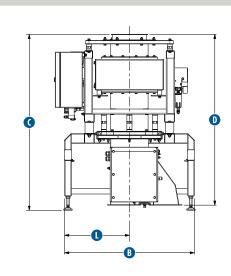
### THS/FFV21 ATEX COMPLIANCE

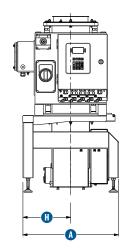
- Compliant with ATEX Directive 2014/34/UE "on equipment and protective systems intended for use in potentially explosive atmospheres"
- IP66/69K protection rating (control power box and detector)
- Classified as Group II, Category 1/2D equipment





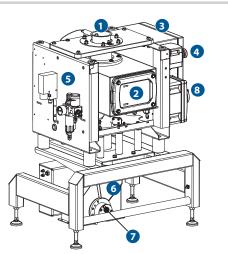
### THS/FFV21-ATEX model





Model (aperture)	A	В	С	D	Н	L
THS/FFV21-75S-ATEX			856 ÷ 906	826		
THS/FFVMS21-75S-ATEX	505	660	000 ÷ 900	020	275	330
THS/FFV21-100S-ATEX			849 ÷ 899	819		
THS/FFVMS21-100S-ATEX						
THS/FFV21-150S-ATEX	560	760	990 ÷ 1065	960	280	380
THS/FFVMS21-150S-ATEX						
THS/FFV21-200S-ATEX	560		1030 ÷ 1105	1000		
THS/FFVMS21-200S-ATEX						
THS/FFV21-100x40S-ATEX	525	685	798 ÷ 883	768	286	343

It is available, on request, a compact version that reduce the C and D dimensions by 90 mm.



1	Infeed flange for material to be inspected
2	Metal Detector probe
3	Power supply and control unit
4	Emergency pushbutton
5	Compressed air group
6	Ejection valve (deviator)
7	Valve actioning group
8	Main switch

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# THS/FFV21 SERIES SPECIFICATIONS



SPECIAL FEATURES			THS/FFV21E	THS/FFV21	THS/FFV21-ATE				
	Detection sensitivity		High	High Ultra High High High					
	Immunity to environmental interference		High						
	Data display type				st graphical OLED x64 pixels				
	Local programming		4 keys, 3 with double function	16 keys, 3 with double function					
	Construction compliant with 21 CFR Parts 210	and 211							
	Inspected/contaminated product counter								
	Autolearn and automatic tracking of the product effect								
	ISO 9001 certified manufacturer								
DATA	Management of electronic production data	Data security							
MANAGEMENT	and electronic signatures	Data integrity							
	as per CFR 21, Part 11	Data traceability							
I/O INTERFACES	RS232, Auxiliary RS232, Bluetooth, Ethernet in	nterface (on request), WI-FI and	USB (on request)						
SIGNALLING	Acoustic	Via internal buzzer							
	Optical	Graphic display with bar-grap	h indication						
	Light indicators on control unit: RED: Alarm or Fault / GREEN: Power on								
PROGRAMMING	LOCAL: built-in keyboard and high-contrast di	splay							
	REMOTE: through computer connected via Blu terminal emulation program or through Web S		and managed with CEIA MD Scope sof	tware, THS Production P	lus software or any other				
SAFETY	FETY Protection degree THS/FFV21E IP65								
AND SECURITY		THS/FFV21	IP66 – IP69K (control power b	ox)					
			IP65 (all other components)						
		THS/FFV21-ATEX	IP66 – IP69K (control power b	ox and detector)					
			IP65 (all other components)						
	Electrical insulation								
		Compliant with international standards for safety and radio interference							
	Pollution degree (IEC61010-1)	Class 2							
	Installation category (IEC61010-1)	Category II							
SUPPLY	Control Power Box	Main voltage	100-240 VAC						
		Frequency and phase	50/60 Hz - single phase	50/60 Hz - single phase					
		Full load current (FLA)	2.2 A	2.2 A					
	Compressed air	Pressure	0,6 ÷ 1 Мра						
			0,6 ÷ 0,8 Mpa (THS/FFV21-AT	EX)					
		Flow	100 I/min						
			600 I/min (THS/FFV21-ATEX)						
ENVIRONMENTAL CONDITIONS	Temperature	Operating	-10 to +55 °C						
			0 to +40 °C(THS/FFV21-ATEX	()					
CONDITIONS		Storage	-40 to +70 °C						
CONDITIONS			-25 to +70 °C (THS/FFV21-ATE	-25 to +70 °C (THS/FFV21-ATEX)					
CONDITIONS			· · ·						
	Relative humidity	Operating / Storage	5 – 90 %, non-condensing						
PRODUCT	Relative humidity Maximum temperature	Operating / Storage Product in transit	5 – 90 %, non-condensing 70°C						
	,		5 – 90 %, non-condensing						

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