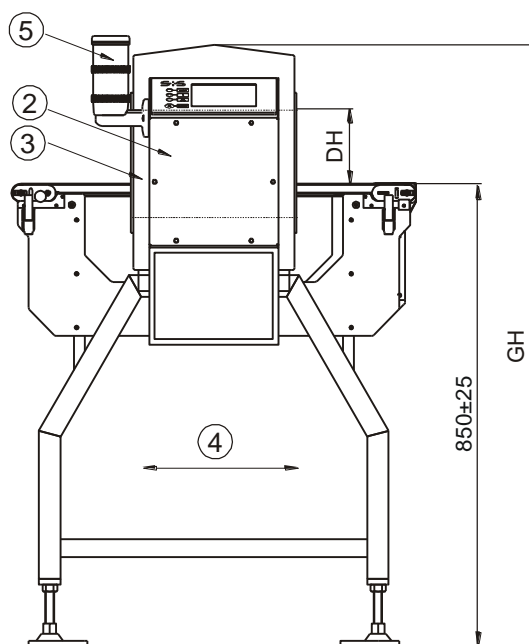


ECOLINE-D metal detection system

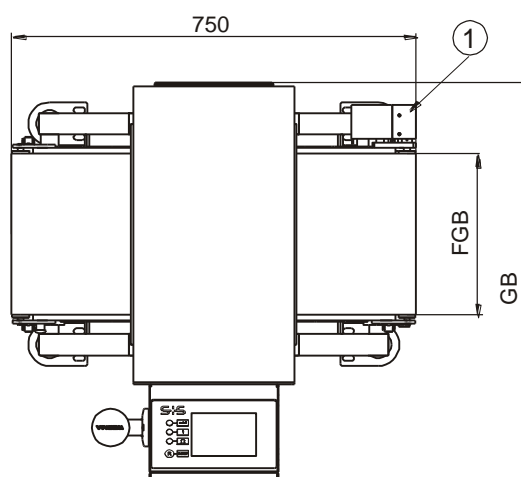
■ Dimensions size 1 (Belt width 200-300 mm)



- 1 Gear motor
- 2 Control unit
- 3 Detection coil
- 4 Operating side at conveying direction right (standard)

Option:

- 5 Combination alarm



All dimensions in mm

■ Technical data

Type	Max. product size FGB / DH ²⁾	Conveyor belt dimensions		Roller diameter	Scanning sensitivity ¹⁾ GENIUS+		
		GB	GH±25		Ø Fe	Ø V2A	Ø NonFe
ECOLINE-D 750/200/100	200/100	640	1061	32	0.90	1.588	1.00
ECOLINE-D 750/200/150	200/150	640	1111	32	1.20	1.588	1.20
ECOLINE-D 750/300/100	300/100	740	1061	32	0.90	1.588	1.00
ECOLINE-D 750/300/150	300/150	740	1114	32	1.20	1.588	1.20

Units in **bold** are available on shorter delivery.

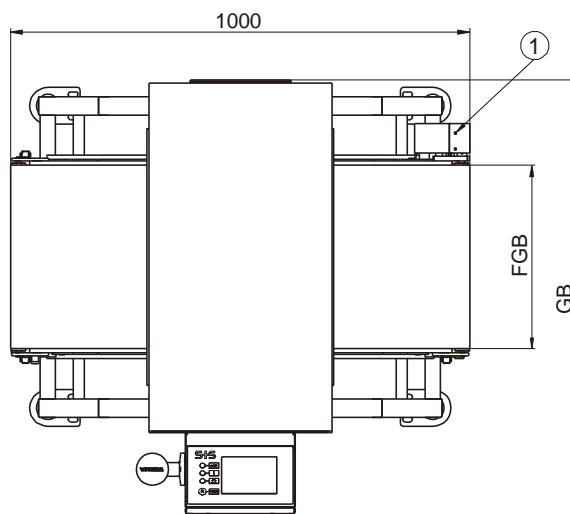
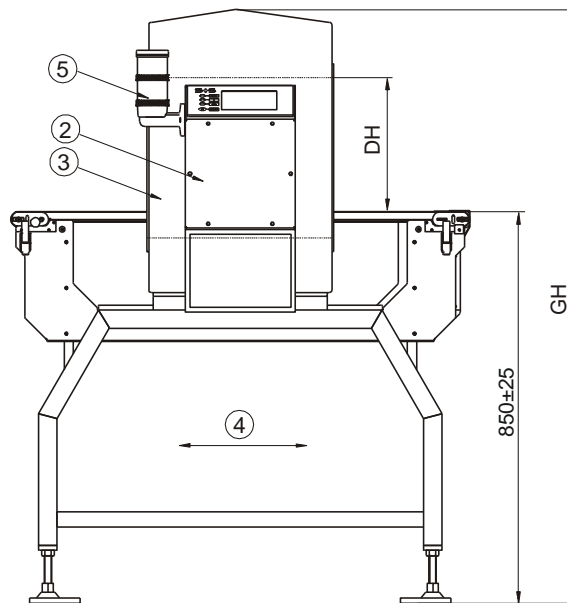
All dimensions in mm

¹⁾ The specified sensitivity (sphere Ø in mm) is related to the centre of the aperture of the detector (most unfavourable position) with the standard operation frequency 8. The achievable sensitivity within a product depends on its product effect (intrinsic conductivity caused by moisture, salt content etc.), the product temperature and environmental influences. The detectability of metal particles is also determined by their nature, shape and position.

²⁾ For products with high product effect (i.e. fresh meat, cheese) it is recommended to use the next highest aperture.

ECOLINE-D metal detection system

■ Dimensions size 2 (Belt width 400 mm)



- 1 Gear motor
- 2 Control unit
- 3 Detection coil
- 4 Operating side at conveying direction right (standard)

Option:

- 5 Combination alarm

All dimensions in mm

■ Technical data

Type	Max. product size FGB / DH ²⁾	Conveyor belt dimensions		Roller diameter	Scanning sensitivity ¹⁾		
		GB	GH±25		GENIUS+		
					Ø Fe	Ø V2A	Ø NonFe
ECOLINE-D 1000/400/100	400/100	890	1056	32	1.00	1.588	1.20
ECOLINE-D 1000/400/150	400/150	890	1109	32	1.20	1.80	1.50
ECOLINE-D 1000/400/200	400/200	890	1159	32	1.50	2.00	2.00
ECOLINE-D 1000/400/250	400/250	890	1211	32	1.75	2.50	2.00
ECOLINE-D 1000/400/300	400/300	950	1284	32	2.10	2.50	2.50

Units in **bold** are available on shorter delivery.

All dimensions in mm

¹⁾ The specified sensitivity (sphere Ø in mm) is related to the centre of the aperture of the detector (most unfavourable position) with the standard operation frequency 8. The achievable sensitivity within a product depends on its product effect (intrinsic conductivity caused by moisture, salt content etc.), the product temperature and environmental influences. The detectability of metal particles is also determined by their nature, shape and position.

²⁾ For products with high product effect (i.e. fresh meat, cheese) it is recommended to use the next highest aperture.

ECOLINE-D metal detection system

■ Conditions of use

Use:	For the inspection of packed (non-metallic packing material), unpacked products and bulk materials
Maximum loading:	20 kg
Product temperature:	-20° C to +80° C
Ambient conditions:	-10° C to +40° C, 25% to 85% rH, no condensation
Storage and shipping conditions:	-10° C to +50° C, 25% to 85% rH, no condensation

■ Standard design

Scope of delivery:	Flat belt conveyor equipped with metal detector GLS, control unit GENIUS+ and integrated electronic conveyor control
Mechanical design:	Conveyor belt and metal detector made of stainless steel 1.4301 (AISI 304); glass bead blasted Static frame construction, height adjustable base and fastening bore holes; stainless steel 1.4301 (AISI 304); glass bead blasted Drive, deflection and stretching rollers made of stainless steel 1.4301 (AISI 304) Motor with thermo monitor PUR-belt made of white FDA quality Height-adjustable conveying unit ±25 mm for product centering to minimize product effect Belt quick change facility
Electrical design:	Combined controller and control panel for conveyor and metal detector Standard control unit for "stop on detect" Wiring according to hygienic requirements On / off switch, emergency switch
Operating voltage:	230 VAC (± 10%), 50/60 Hz, single phase
Current consumption:	Max. 1 A
Motor power:	Max. 65 W
Mains cable:	1.8 m with 3-pole CEE plug blue (1L+N+PE)
Metal detector:	100 W
Type of protection:	IP 65 (hose-proof), NEMA 4
Conveyor belt speeds:	0.5 m/sec, 1.0 m/sec (factory preset range -60% to +30%)

■ Operating side

- Right (standard) Left (option)

■ General Options / Accessories

- Visual alarm
 - Failure indication
 - Failure and metal indication
- Audible alarm
 - Failure indication
 - Failure and metal indication
- Combination alarm (visual alarm and audible alarm)
 - Failure indication
 - Failure and metal indication
- Input voltage 115 VAC (±10%), 50/60 Hz, single phase

■ Options / Accessories control unit GENIUS+

- Blue visual alarm for "AuditCheck"
- Variable speed drive
- Color touch-screen incl. USB interface
- Multi frequency technology Duo (used with few but very different products) to optimisation of sensitivity
- Serial interface RS232 with plug (IP65, 4-pole)
- Serial interface RS485 with plug (IP65, 4-pole)
- Ethernet interface (TCP/IP 100 Mbit/s, IP65, RJ45)
- WLAN interface (802.11 b/g) with integrated aerial
- Profi Bus
- Central data management system
 - Software InsightLog.NET (saving log data)
 - Software Insight.NET (visualisation, logging, remote control and diagnosis)

ECOLINE-D metal detection system

