

Metal Detector Secus[®]



() Benefits

- Frequency range 5 50 kHz
- Highly developed electronics to compensate for the product effect
- 5.7-inch color touch screen display
- Robust design
- Easy integration into existing product lines
- Searchcoil C/D optional IP66
- Memory for 200 types of products
- "Made in Germany" quality

For many years now, Minebea Intec has been active in the field of metal detection technology and is a reliable partner for companies operating in the fields of chemical engineering, rubber, timber, and coal processing, recycling, and mining.

To ensure proper integration into your production process, Secus[®] is available in various designs:

Secus[®]-C:

The standard coil which ensures maximum sensitivity.

Secus[®]-D:

The divisible coil which can be installed around your conveyor belts without separating them. It can also be removed without affecting the conveyor belt.

Secus[®]-U:

The under-belt coil which is positioned beneath the conveyor belt.

Application

Secus[®] provides highly efficient and effective protection for your machines. It prevents metallic foreign bodies from entering your production process and therefore keeps downtimes for repairs to a minimum. Your employees are also reliably protected against injury from spalling metallic parts.

High-quality materials and an in-house production process marked with the quality seal "Made in Germany" combine to achieve a product of unsurpassed quality.

Specially designed for heavy industry, it is the robust design and detection sensitivity that particularly stand out, having been especially optimized for the extractive industry.

Technology

In order to ensure the highest levels of sensitivity and safety, Secus[®] provides a learning function for the monitored product. This allows the system to adapt to changing ambient conditions by compensating for the product effect.

Secus[®] enables up to four search coils to be operated via a single control unit (human interface) and allows for centralized management of your quality assurance process. This process can also be implemented by means of an electronic system that is separated from the search coil (max. 100 m). The task of monitoring the quality of the product flow is therefore made easy, even in cases where the coils are difficult for the operator to access. In addition, Secus[®] provides a range of data interfaces to ensure the easy integration of data into your production system.

Secus[®] offers an intuitive user interface with integrated user management. Various password-protected user authorizations can be assigned on request. The log function can be used to keep a record of every change to the settings and assign each change to a user. This function, which Minebea Intec includes in its standard design, guarantees you complete transparency of your production process at all times.

As an option, Secus[®] can be equipped with a reduced metal-free zone in order to rule out the possibility of interference in the direct vicinity of the search coil resulting from upstream or downstream production processes.

Technical specifications

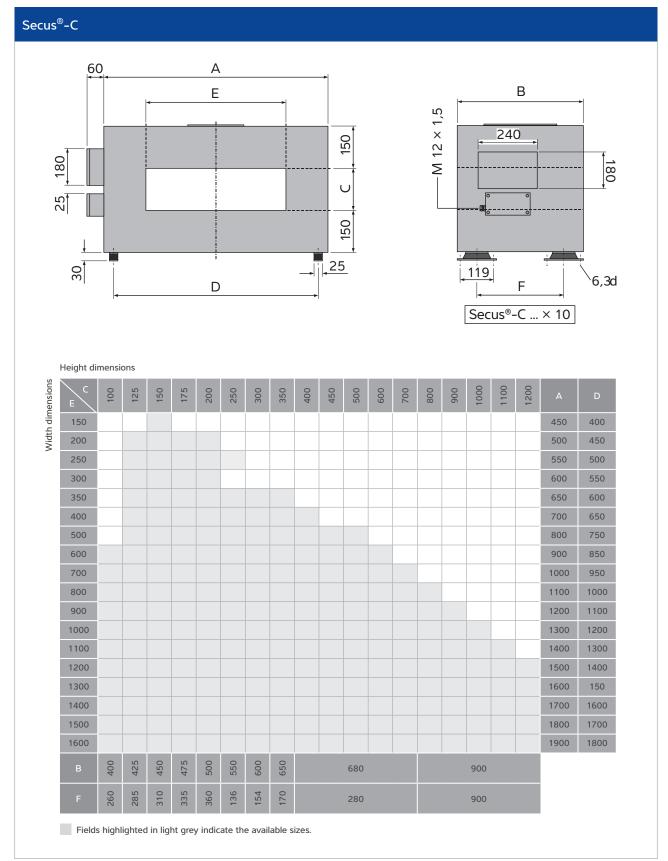
Metal Detector Secus [®]				
Parameter	Description			
Dimensions	See technical drawings. Other sizes available on request.			
Ambient temperature	Operating range: -10 to +55°C			
Product temperature	-30 to +55°C, up to +150°C if equipped with air cooling			
Housing	AISI 304 (1.3305) Steel (painted)			
Data interfaces	TCP/IP, RS-232, RS-422, CAN bus, fieldbus and profibus interface			
Protection class	IP55: Secus [®] -C/D/U IP66: Secus [®] -C/D (optional) IP65: Secus [®] -T/E/EI/EU/EUI)			
Power supply	90 V-260 V			
Voltage frequency	47 Hz – 63 Hz			
Outputs	3 freely programmable error outputs 1 fixed output			
Weight	5 to 500 kg depending on design			
Options	 Log-in by means of fingerprint sensor Remote control End position monitoring Rejection monitoring USB print and much more 			



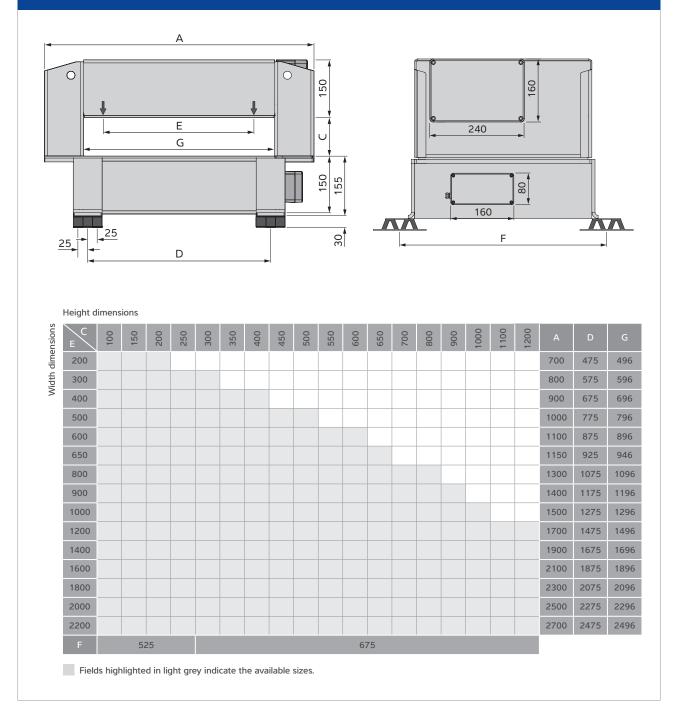
Evaluation electronic junction							
	Device	Function					
Secus®-E Secus®-C	Secus [®] -E (Electronic)	Separate operator terminal with evaluation electronics					
max. 10 m	Secus [®] -C (Compact)	Metal detector					
	Device	Function					
Secus®-T max. 4 × Secus®-El max. 4 × Secus®-C	Secus [®] -T (Terminal)	Separate operator terminal					
	Secus [®] -El (Electronic Interface)	Separate evaluation electronics (max. 4 × in series)					
max. 100 m max. 10 m	Secus [®] -C (Compact)	Metal detector (max. 4 × in series)					
		E utility					
Secus®-E Secus®-D	Device	Function					
SecusE Secus-D	Secus [®] -E (Electronic)	Separate operator terminal with evaluation electronics					
max. 10 m	Secus[®]-D (Divisible)	Metal detector					
	Device	Function					
Secus®-T max. 4 × Secus®-El max. 4 × Secus®-D	Secus [®] -T (Terminal)	Separate operator terminal					
	Secus [®] -El (Electronic Interface)	Separate evaluation electronics (max. $4 \times$ in series)					
max. 100 m max. 10 m	Secus [®] -D (Divisible)	Metal detector (max. 4 × in series)					
	Device	Function					
Secus®-U	Secus [®] -EU (Electronic for under-belt)	Separate operator terminal with evaluation electronics					
max. 10 m	Secus [®] -U (Under-belt)	Under-belt metal detector					
	Device	Function					
Secus®-T max. 4 × Secus®-El max. 4 × Secus®-U	Secus [®] -T (Terminal)	Separate operator terminal					
	Secus [®] -EIU (El for under-belt)	Separate evaluation electronics (max. $4 \times$ in series)					
max. 100 m max. 10 m	Secus [®] -U (Under-belt)	Under-belt metal detector (max. $4 \times$ in series)					

The technical data given are intended solely as a product description and should not be conceived as guaranteed properties in the legal sense.

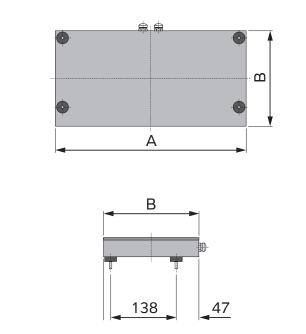
Technical diagrams

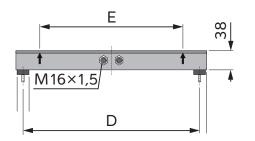


Secus[®]-D



Secus[®]-U

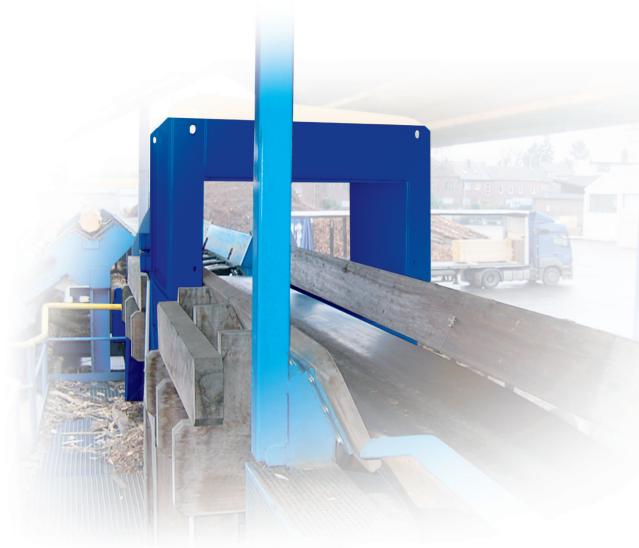


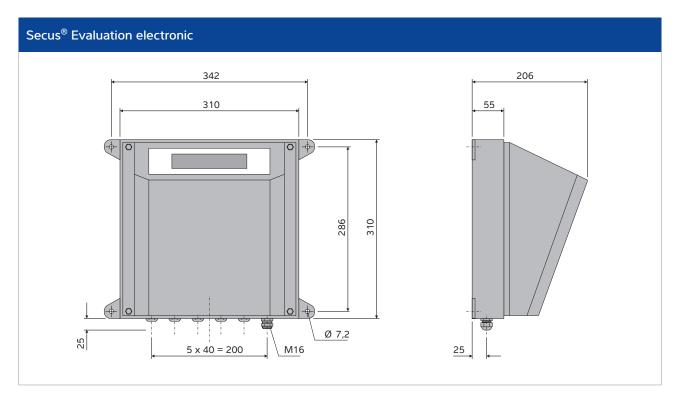


Dimensions

Secus [®] -U	А	В	D	E	
30	400	200	370	300	
40	500	200	470	400	
50	600	200	570	500	
80	1000	400	970	800	
120	1400	400	1370	1200	

Fields highlighted in light grey indicate the available sizes.





All dimensions in mm

The products and solutions presented in this data sheet make major contributions in the following sectors:



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Specifications subject to change without notice. Rev. 07/2020 Minebea Intec Aachen GmbH & Co. KG Am Gut Wolf 11 52070 Aachen, Germany Phone +49.241.1827.0 sales.ac@minebea-intec.com www.minebea-intec.com