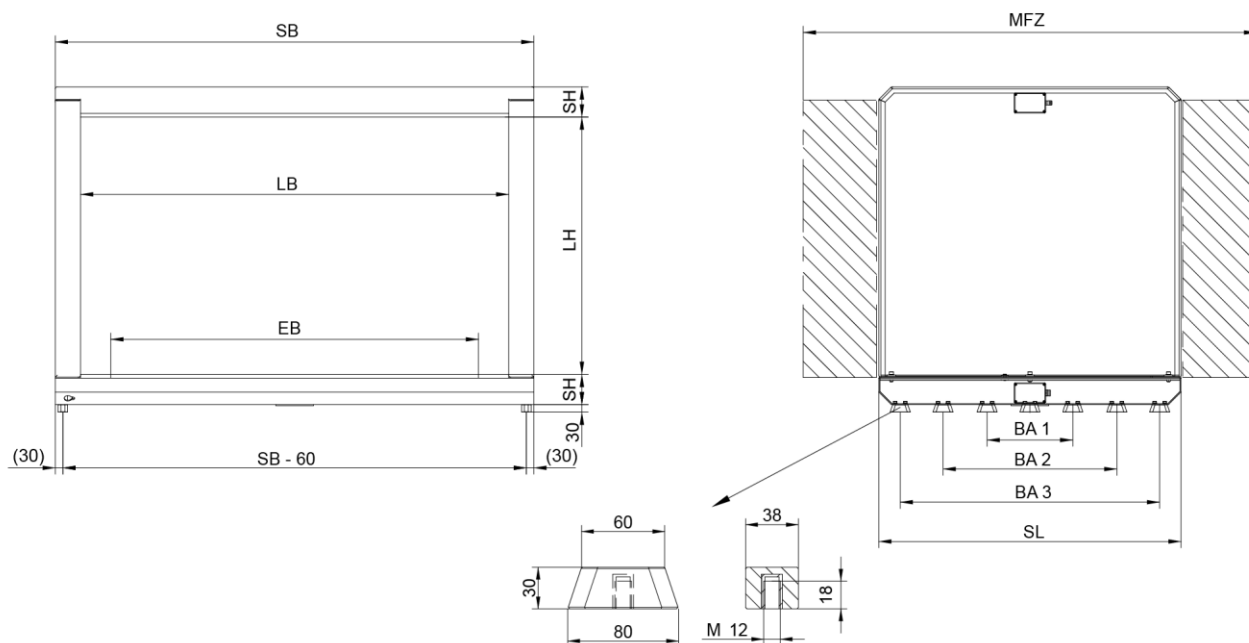


Dimensions



All dimensions in [mm]

Metal-free zone MFZ (non-moving metal) = SL + LH

Metal-free zone MFZ (moving metal) = SL + 3.5 x LH

SB (coil width) = LB + 200

EB (sensitive area)

LH (Clearance height)	LB (Clear width)	SH (Leg height)	SL (Coil length)	Mounting distance			Number of holes
				BA1	BA 2	BA 3	
up to 200	EB + 220	115	400	230	--	--	6
up to 300	EB + 220	115	500	110	330	--	8
up to 400	EB + 240	115	600	215	430	--	10
up to 500	EB + 240	115	700	265	530	--	10
up to 600	EB + 240	115	750	290	580	--	10
up to 700	EB + 280	115	800	150	390	630	12
up to 800	EB + 280	120	850	150	420	680	12
up to 900	EB + 280	120	900	150	440	730	12
up to 1000	EB + 280	120	1000	280	560	830	14
>1000	EB + 300	120	1200	340	690	1030	14

All dimensions in [mm]

Optional: Shaft extension (increased signal stability/shielding against external influences)

Note: Additional information on other coil dimensions, technical specifications and optional versions is available on request and must be agreed with Mesutronic.

Product description

The **METRON D** is a powerful, divisible tunnel metal detector for installation in conveyor belts, vibrating conveyors and material chutes. It is used for quality control, process monitoring and the protection of machines in industrial production lines.

This detector coil is integrated into a conveyor belt system provided by the customer and reliably detects all types of metal. Thanks to its divisible design, it can also be easily installed and retrofitted to existing systems. The METRON D ensures high process reliability, consistent product quality and reliable protection of downstream system components.

Areas of application

The METRON D is suitable for applications in the **non-food** sector.

Non-food

For applications in the recycling industry, rubber and plastics industry, wood industry, stone, earth, textile industry and other industrial sectors with comparable products and requirements.

Hygienic requirements

The METRON D is not designed for high hygienic requirements or sensitive food applications.

Product specification & ambient conditions

Product shape	Bulk material and piece goods
Product properties	AMD 03: Dry AMD 05: Dry, moist (product-specific effects can be compensated for)
Installation type	Integration into existing belt conveyors Complete conveyor module from Mesutronic
Material speed	Constant or variable belt speeds: 0.05 – 1.5 m/s <i>-Different specifications on request-</i>
Product temperature	up to +50°C
Ambient temperature	-10°C to +50°C
Storage / transport conditions	-10°C to +60°C
Relative humidity	0% to 95% (without condensation)
Operating environment	Indoors without additional enclosure; a protective enclosure provided by the customer is required for outdoor use, plus coil shaft made of PP (polypropylene)

Reference values for detection accuracy will be provided after consultation with Mesutronic or in a corresponding offer for these devices. If no product-specific test is available, the information is based on comparable products or technically justified assumptions. The actual detection performance depends on the product property as well as the type, size and position of the foreign object.

Equipment & specifications

Electronics version	AMD 03 AMD 05 (see technical data sheet for electronics)
Operator interface	AMD 03: Hotkeys AMD 05: Graphic display with membrane keypad, keypad
Operating unit - Assembly type	Integrated Separated (at least 2m)
Detector coil	S235 JR painted (RAL 3027) - Optional: Stainless steel 1.4301 (AISI 304)
Coil shaft	Screen printing plate (wood) - Optional: PP (polypropylene)
Protection class of coil housing	IP 65

Standard scope of delivery

Metal detector (evaluation electronics, connection and connection cable)
Operating instructions with spare parts list and electronic connection diagram
EU Declaration of Conformity:

- 2014/35/EU (Low Voltage Directive)
- 2014/30/EU (EMC Directive)
- 2011/65/EU (RoHS Directive)
- Delegated directive (EU) 2015/863 (extension of the RoHS Directive)

Versions

- ATEX (dust): Zone 21 | 22; ATEX (Gas): Zone 2
- High-temperature version up to max. 120 °C product temperature – coil shaft: HPL (High Pressure Laminate)
- Outdoor applications: Coil shaft – PP (polypropylene)

Conformity

Optionally available:

- NRTL certification (UL 61010-1)
- IEC certification (IEC 61010-1)
- Test piece certificate

Options

- Detector coil: Stainless steel 1.4301 (AISI 304), sandblasted
- Coil shaft extension – detector coil: Stainless steel 1.4301 (AISI 304)
- Coil shaft: PP (polypropylene) | PE-EL (polyethylene, electrically conductive) | HPL (high pressure laminate)
- Operating unit and detector head separate (available from 2m)
- Housing painting (RAL colours)
- Ambient temperature: -20°C

Accessories

- Test piece (FE Ø, Non-FE Ø, AISI 304 Ø)
- Signal combination for error status warning
Optionally with AMD 05
- mesuEXPORT (automatic protocol export)
- mesuREMOTE (remote maintenance kit)
- mesuLINK (networking software)
- WLAN module

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Note:

If you require further product information that goes beyond the content of this technical data sheet and in particular concerns a specific use and the application of this product, please contact us.