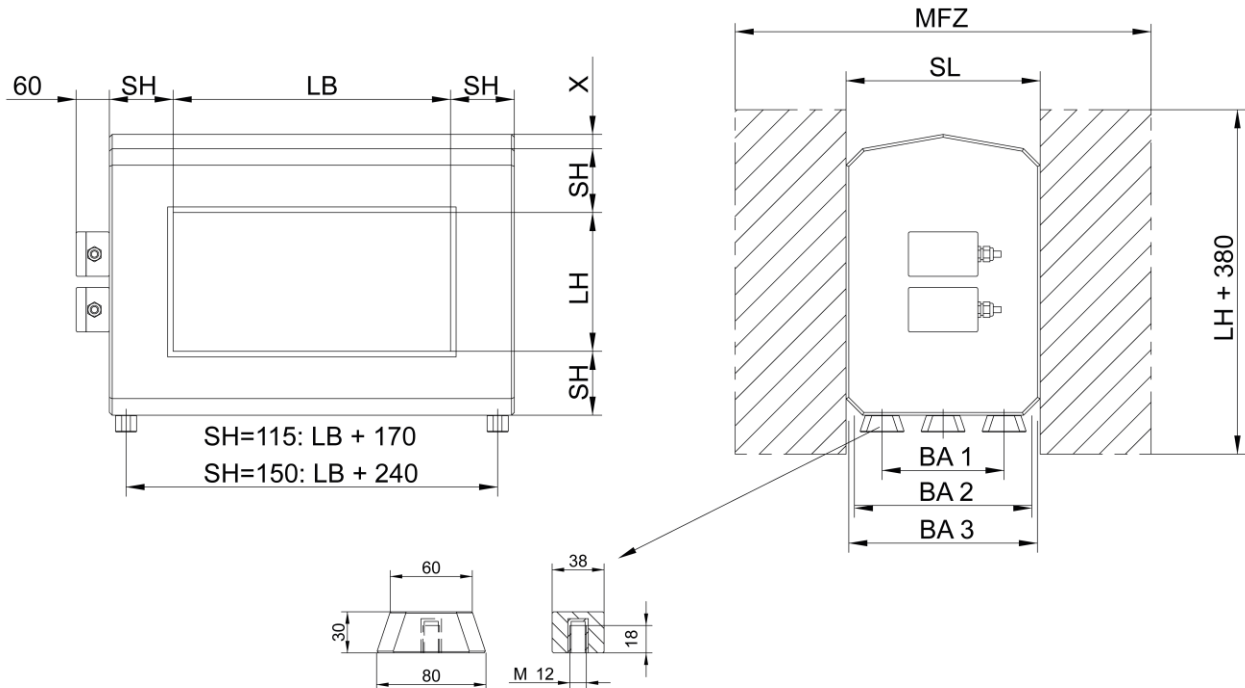


Dimensions



All dimensions in [mm]

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

LB: Clear width, 50 mm to 2000 mm in 50 mm increments
 LH: Clearance height, 50 mm to 1000 mm in 25 mm increments

LH (Clearance height)	SL (Coil length)	SH (Leg height)	Mounting distance			Quantity Holes	X
			BA1	BA2	BA 3		
50-150	260	115	130	--	--	4	18
175-200	300	115	170	--	--	4	22
225-250	350	115	220	--	--	6	26
275-300	400	115	230	--	--	6	27
325-350	450	115	280	--	--	6	31
375-400	500	115	110	330	--	8	36
425-450	550	115	190	380	--	10	40
475-500	600	115	215	430	--	10	44
550-600	650	115	240	480	--	10	49
650-700	700	150	265	530	--	10	--
750-800	800	150	150	390	630	12	--
850-900	900	150	150	440	730	12	--
950-1000	1000	150	280	560	830	14	--
>1000	1200	150	340	690	1030	14	--

All dimensions in [mm]

Optional: Upright version ($LH \geq LB$); 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.

Version 001-01

Mesutronic GmbH

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Product description

The **METRON C** is a powerful tunnel detector for use in conveyor belt systems. It is used for reliable quality control, continuous process monitoring and the effective protection of machines in industrial production lines. The system is either integrated into a conveyor belt system provided by the customer or supplied by Mesutronic as a fully customised conveyor module. It reliably recognises all types of metal – from ferrous and non-ferrous metals to stainless steel.

This ensures maximum process reliability, consistently high product quality and reliable protection of downstream system components.

Areas of application

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

Non-food	Suitable for applications in the plastics, chemical and recycling industries as well as in other sectors with similar requirements, including the textile, wood, stone, earth and animal feed industries
Hygienic requirements	The METRON C is not designed for high hygienic requirements or sensitive food applications

Product specification & ambient conditions

Product shape	Bulk material and piece goods
Product properties	Dry, moist (intrinsic conductivity of product can be compensated for)
Installation type	Integration into existing belt conveyors Complete conveyor module from Mesutronic
Material speed	Constant or variable belt speeds: 0.1 – 1.5 m/s <i>-Different specifications on request-</i>
Product temperature	-10°C 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 05(see technical data sheet for electronics)
Operator interface	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
- Outdoor applications: Coil shaft PP

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
- Detection coil in upright design
- Coil shaft extension – detector coil: Stainless steel 1.4301 (AISI 304)
- 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
- 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.