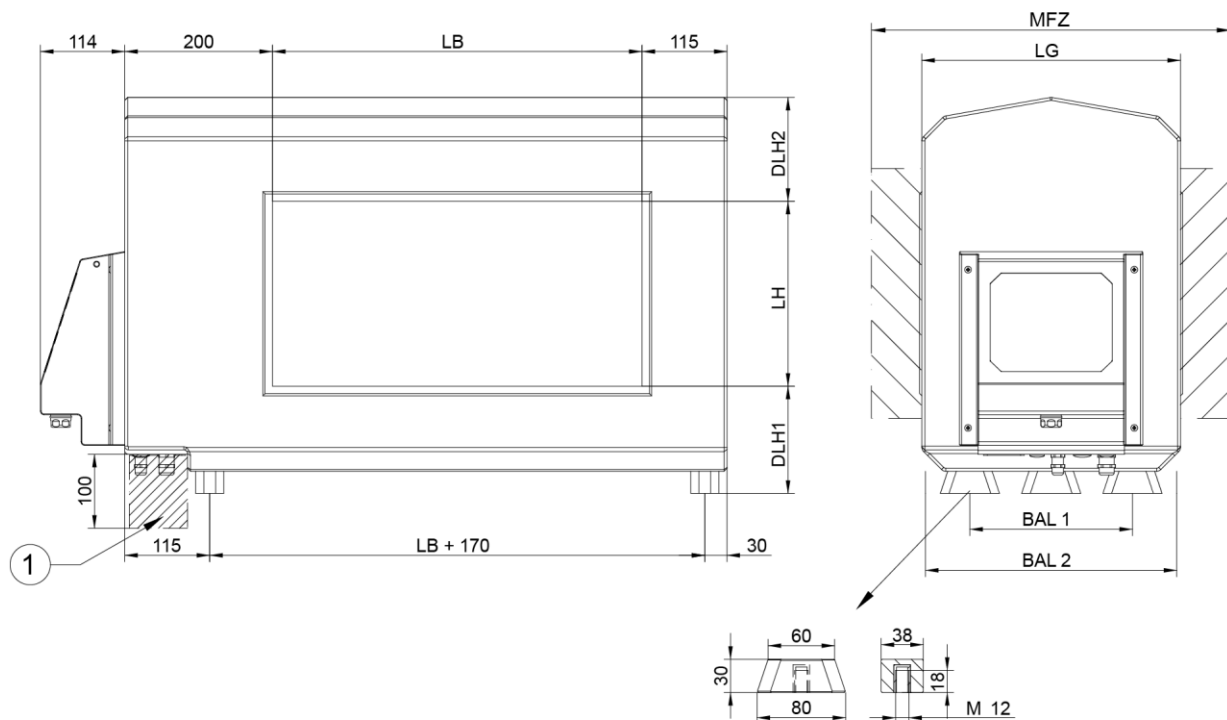


Dimensions



All dimensions in [mm]

1. Assembly area

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

LB: Clear width, 50 mm to 2000 mm in 50 mm increments
LH: Clearance height, 50 mm to 600 mm in 25 mm increments

LH (Clearance height)	LG (Coil length)	Pass-through height		Mounting distance		Number of holes
		DLH1	DLH2	BAL1	BAL 2	
50	260	180	168	130	--	4
75	260	160	148	130	--	4
100-150	260	145	133	130	--	4
175-200	300	145	137	170	--	4
225-250	350	145	141	220	--	6
275-300	400	145	142	230	--	6
325-350	450	145	146	280	--	6
375-400	500	145	151	110	330	8
425-450	550	145	155	190	380	10
475-500	600	145	159	215	430	10
550-600	650	145	164	240	480	10

All dimensions in [mm]

Optional: Upright version (LH ≥ LB); shaft extension (increased signal stability/shielding against external influences)

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

Version 001-01

Mesutronic GmbH

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Product description

The **METRON CI** 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 CI is suitable for **food** and **non-food** applications.

Food	For the food industry, hygiene product manufacturers and similar applications.
Non-food	For the plastics, chemical, pharmaceutical and recycling industries and similar sectors.
Hygienic requirements	Suitable for high hygienic requirements.

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.

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 AMD 07 (<i>see technical data sheet for electronics</i>)
Operator interface	AMD 05: Graphic display with membrane keypad, keypad AMD 7: 5.7" Touch display
Operating unit - Assembly type	Integrated Separated (at least 2m)
Detector coil	AMD 7: Stainless steel 1.4301, sandblasted AMD 05: Stainless steel 1.4301, painted RAL - optional: Stainless steel 1.4301, sandblasted
Coil shaft	PP (polypropylene) <i>Optional: HPL (high pressure laminate)</i>
Protection class of coil housing	IP 66 <i>Optional: IP69</i>

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)
- Increased IP protection class: IP 69

Versions with the AMD 07:

- HSD | HSC version (High Sense Dry | High Sense Conductive)

Conformity

Optionally available:

- Detector coil, food: Regulation (EC) No. 1935/2004 + FDA (Food and Drug Administration)
- NRTL certification (UL 61010-1)
- IEC certification (IEC 61010-1)
- Test piece certificate

Options

- | | |
|--|---|
| <ul style="list-style-type: none"> ○ Detector coil: Stainless steel 1.4404 (AISI 316L), sandblasted ○ Upright design ○ Coil shaft extension | <ul style="list-style-type: none"> ○ Operating unit and detector head separate (available from 2m) ○ Housing painting (RAL colours) |
|--|---|

Accessories

- | | |
|---|---|
| <ul style="list-style-type: none"> ○ Test piece (FE Ø, Non-FE Ø, AISI 304 Ø) ○ Signal combination for error status warning ○ mesuEXPORT (automatic protocol export) ○ mesuREMOTE (remote maintenance kit) | <ul style="list-style-type: none"> ○ mesuLINK (networking software) ○ WLAN module <p>Optionally available for AMD 7:</p> <ul style="list-style-type: none"> ○ autoTEST system E (electrical) |
|---|---|

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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.