Measuring Roll MEZ

Scope of Supply

Measuring roll with two force sensors ZAK, with 5 m cable (PVC) and cable connection T:
cable gland, straight

Additional Option

F: For use in explosive areas, incl. J-Box

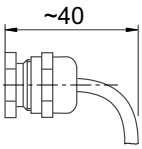
Additional Accessories

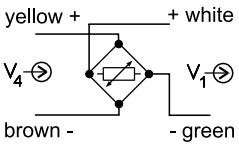
ZAK- Mounting flange
ZAK- Clamp device

Selection of mounting types see "Product Description ZAK"

Connection

Variant T





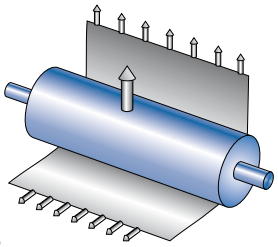
V_4 Supply voltage
V_1 Signal voltage

Special Features

- Complete measuring roll with measuring sensors
- Simple installation
- Separate or joint measurement of bearing forces
- Sensors made of stainless steel
- Cost effective compact design

The measuring roll MEZ is used to measure web tension forces, e.g. in moving webs of paper, textile, plastic, metal.

The compact design enables quick and cost effective integration into OEM machines or retrofitting into existing machines.



The MEZ is made up of the hull, the bearings, and the two force sensors, which are directly integrated in the roll. The measuring roll comes ready assembled for electrical connection and immediate use.

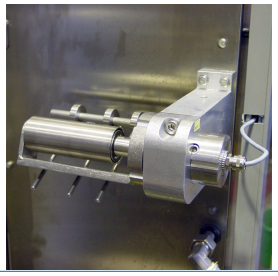
The measuring sensors can be fixed with the mounting flange directly to the machine frame or mounted with clamping blocks (available as accessories).

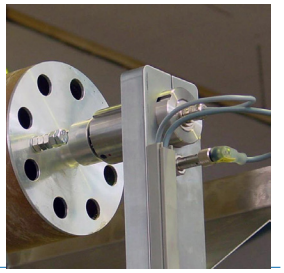
The length of the roll is custom designed. The hull of the measuring roll is made of aluminium as a standard. Other materials are available on request.

Ordering Example

MEZ129-567-100-T

Type
Roll diameter
Roll length (BL)
Nominal force
Variants / Options





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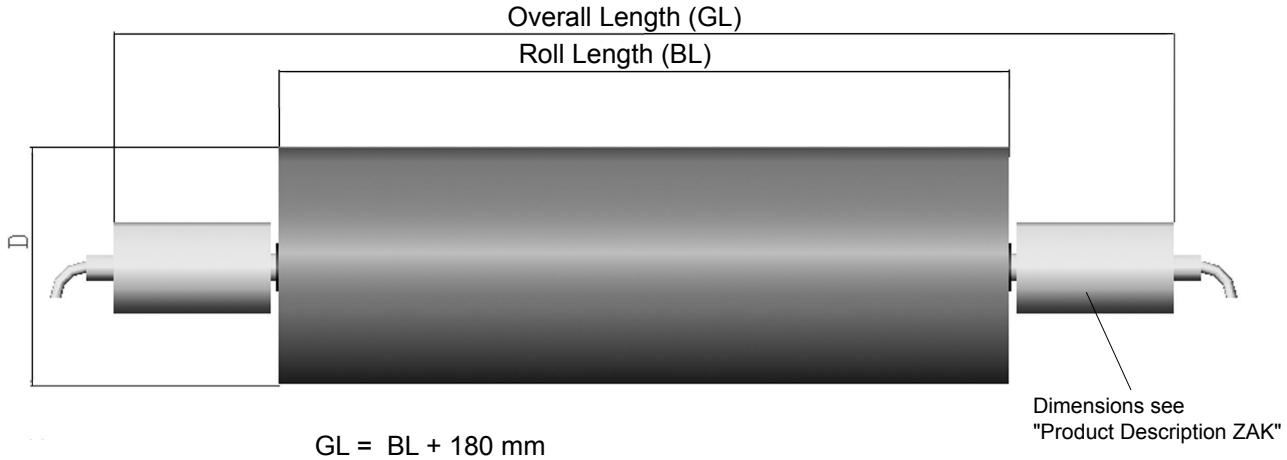
http://www.haehne.de Email: info@haehne.de

Technical Data	Values (%) based on nominal force
Nominal force (measuring range) - Total force onto the roll in N -	20, 40, 100, 200, 400, 1000, 2000, 4000 N
Max. operating force	160 %
Overload protection	1000 %, max. 6400 N at symmetrical load of both sensors
Nominal rating	Roll 20 and 40 N: 1 mV / V Roll ≥ 100 N: 1,5 mV / V
Combined error	0,5 %
Nominal ambient temperature	+ 10 ... + 60° C (+50...+140° F)
Operational temperature range	- 10 ... + 70° C (+14... +158° F)
Nominal resistance of the strain gauge bridge	700 Ω
Max. bridge supply voltage	10 VDC
Enclosure protection	IP54
Roll diameter	from 40 mm
Standard material	aluminium
Standard surface	hard anodised
Standard roughness	Rz 8 µm
Balance quality	Q 6,3; Q 2,5; Q1 (as VDI 2060)



GL = BL + 180 mm
axial movement (floating bearing) 174 - 183 mm

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