

Measuring Roll MWF

Scope of Supply

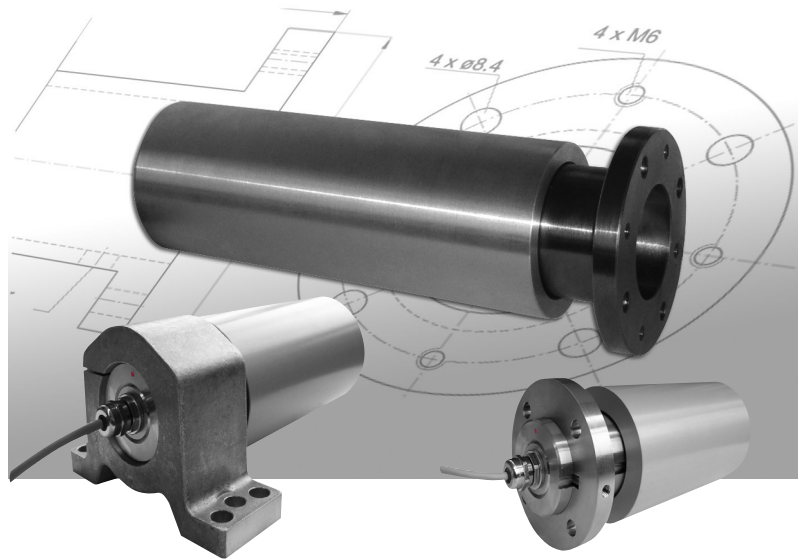
Single sided measuring roll with integrated force sensor, with 5 m cable (PVC) and connection variant T:
Cable connection, straight

Additional Option

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

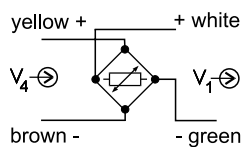
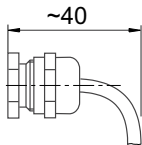
Additional Accessories

ZAK- Mounting flange
ZAK- Clamp device



Connection

Variant T



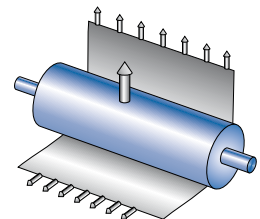
V_4 Supply voltage
 V_1 Signal voltage

Special Features

- Nominal forces from 50 up to 2000 N
- Simple installation, supplied ready for connection
- Cost effective compact design

This single-sided measuring roll is used for tension controls of narrow webs such as labels, tapes and similar webs: The single sided bearing design has several advantages such as

- good visibility of the web path
- easy access to the material
- simplified maintenance



The narrow web measuring roll consist of the

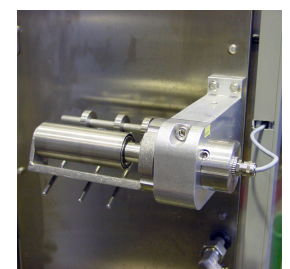
- roll shell
- the force sensor ZAK
- several types of mounting fixtures

For roll length up to 150 mm (6.0 in.) standard clamping blocks or mounting flanges can be used. For roll length over 200 mm (8.0 in.) a special mounting flange is required.

Ordering Example

MWF-A80-100-100-T

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

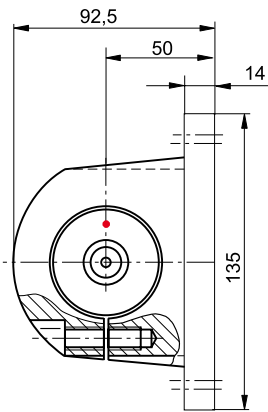
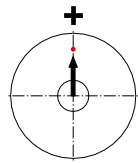


Technical Data	Values (%) based on nominal force
Nominal force F_{nom} (measuring range)	50, 100, 200, 500, 1000, 2000 N
Max. operating force	160 %
Absolute max force	300 %
Max. lateral force	100 %
Nominal rating	1,5 mV / V
Combined error	0,5 %
Nominal ambient temperature	+ 10 ... + 60° C (+50...+140° F)
Operational temperature range	- 10 ... + 70° C (+14...+158° F)
Nominal resistance of strain gauge bridge	700 Ω
Bridge supply voltage	10 V DC
Enclosure protection	IP54
Special enclosure protection	On request

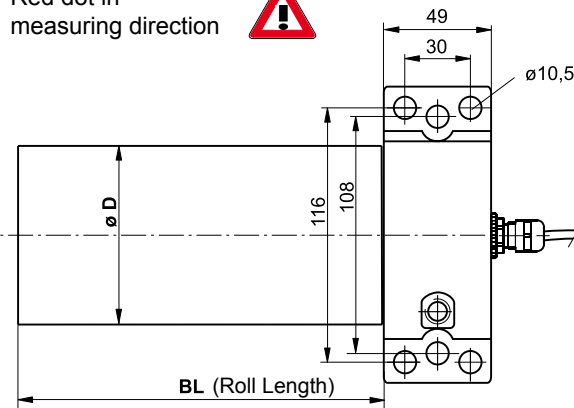
Available Sizes		Roll Length (BL) in mm			
D	F_{nom}	100	150	200	250
80	50				
	100				
	200				
	500				
	1000				
	2000				
Design		A + B		C	

Installation

The mounting position of the red dot depends on the application. If the force works from the center of the sensor towards the red dot, a positive measuring value results.

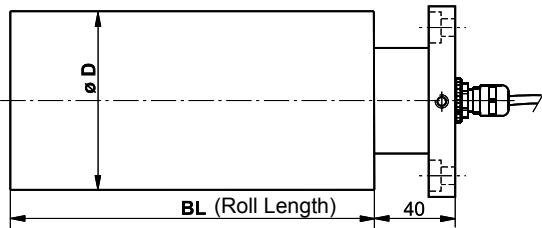
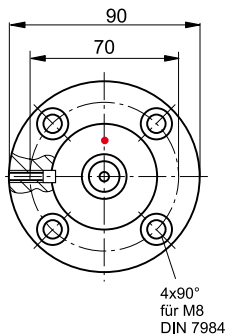


Red dot in measuring direction

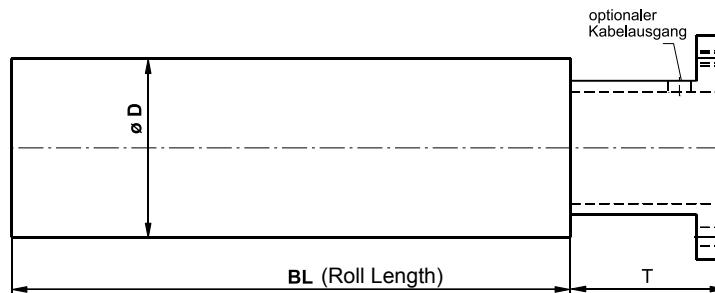
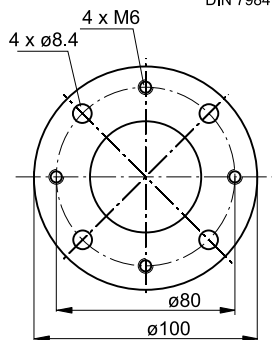


Design A

Dimensions in mm (1 mm = 0.03937 inches)



Design B



Design C