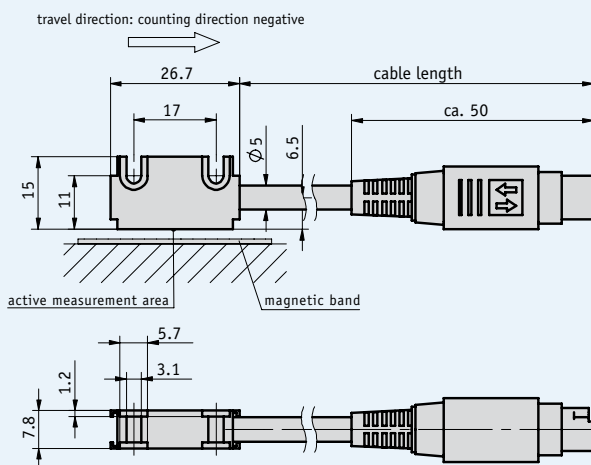


### Profile

- Max. resolution of 1  $\mu\text{m}$  in combination with MA100/2
- Repeat accuracy max.  $\pm 1 \mu\text{m}$  in combination with MA100/2
- Small, compact design



### Mechanical data

Feature	Technical data	Additional information
Scale embodiment	MB100	
System accuracy	$\pm(0.01+0.01 \times L)$ mm, L in m	in combination with MA100/2
Repeat accuracy	max. 1 $\mu\text{m}$	in combination with MA100/2
Sensor/band reading distance	max. 0.4 mm	over total measuring length
Travel speed	max. 5 m/s	
Housing	varnished aluminum, blue	
Sensor cable	PVC or PUR oil-resistant	
Operating temperature	-20 ... +70 °C	
Storage temperature	-20 ... +85 °C	
Humidity	100 % rh	condensation permitted
Protection category	IP67	
Vibration resistance	10 g/50Hz	

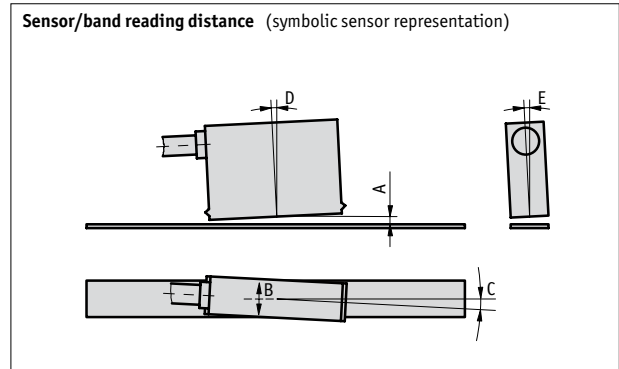
### Electrical data

Feature	Technical data	Additional information
Operating voltage	feed via magnetic display	
Current consumption	feed via magnetic display	
Type of connection	DIN mini-connector	for magnetic display MA100/2
Real-time requirement	real-time signal processing	

### Mounting instruction

A, Sensor/band reading distance	max. 0.4 mm
B, Lateral offset	max. ±2 mm
C, Misalignment	<±3°
D, Longitudinal tilt	<±1°
E, Lateral tilt	<±3°

Sensor/band reading distance (symbolic sensor representation)



5.1

### Order

#### Order table

Feature	Order data	Specifications	Additional information
Cable sheath	PVC	oil-resistant	
	PUR		
Cable length L	...	B 1 ... 10 m, in steps of 1 m	

#### Order code

MS100/1 -  -  -

**Scope of delivery:** MS100/1, User information, Allen fastening screws M3 x 14 mm ISO 4762, lock washers M3 DIN 7980, strain relief for sensor cable, distance gage 0.2 mm

**Additional information:**

Short Description, Technical Details  
Product Overview

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